Functional Analysis

openETCS / UNISIG Subset-026-3.6

Determine Train Location Information

**Summary:**

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This model analyzes how to determine the train location information as specified in Subset026-3.6 “Location principles, train position and train orientation”

**Distribution List:** openETCS WP3 SRS-Analysis and DataDictionary

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# General Project Description

This model serves to determine the train location information as specified in Subset026-3.6 “Location principles, train position and train orientation”.   
It receives all (preprocessed) linking information and all data with location references required to make up the track profile in front of the train and calculates the actual position of the train and it's orientation, related to the “Last relevant balise group” LRBG. For that purpuse it determines the actual LRBG and maintains a list of potentially future LRBGs.   
  
Additionally, it generates a profile with all announced profile elements in front of the train in form of a list ordered by the elements nominal location.  
  
During a train trip, it receives odometry data and keeps on track with passed balise groups and so determines the acual train position.   
  
The idea of the chosen solution is based on a “nominal location” starting with value 0 when the OBU is switched on. All distances announced by linking information and with continous and non-continous profile data are mapped to their appropriate nominal location by signed additions of the distances.   
The resulting profile is provided as a list of all profile data elements ordered by their nominal location.   
  
---  
  
The top level of this model is represented by the node “trainLocation” (see 3.1.6 in this document) .  
  
  
  
----  
  
D3.6 Location Principles, Train Position and Train Orientation.  
  
- Name: DetermineTrainLocation.etp  
- Description: SUBSET-026-3, ISSUE : 3.3.0, 3.6 “Determine Train Location Information”   
- Copyright Siemens AG, 2013  
- Licensed under the EUPL V.1.1 ( http://joinup.ec.europa.eu/software/page/eupl/licence-eupl )  
- Gist URL: ---  
- Cryptography: No  
- Author(s): Uwe Steinke  
  
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It has not been developed for vital operation purposes and must not be used for applications which may cause harm to people, physical accidents or financial loss.   
  
THEREFORE, NO LIABILITY WILL BE GIVEN FOR SUCH AND ANY OTHER KIND OF USE.

# Software Architecture

## Project Architecture

This section displays the package hierarchy of projects.

Project [DetermineTrainLocation](#LinkM-DetermineTrainLocation)

Project Library [DetermineTrainLocationTypes](#LinkL-DetermineTrainLocationTypes)

Project Library [S026\_7](#LinkL-S026_7)  
 [BothWays](#LinkP-BothWays::)  
 [TrackToTrain](#LinkP-TrackToTrain::)  
 [TrainToTrack](#LinkP-TrainToTrack::)

Project Library [S026\_8](#LinkL-S026_8)  
 [Radio\_TrackToTrain](#LinkP-Radio_TrackToTrain::)  
 [Radio\_TrainToTrack](#LinkP-Radio_TrainToTrack::)

## Call Graph

This Call Graph displays the dependency tree of model operators.

1. [trainLocation](#LinkS-!ed/3e77e/6004/2358/528a36104374)  
 1.1. [calculateTrainPosition](#LinkS-!ed/1f347/6004/2358/528a24716d09)  
 1.2. [generatePositionReport](#LinkS-!ed/5b41f/4162/1A98/528b69b1630d)  
 1.3. [manage\_LRBG](#LinkS-!ed/3e7cb/6004/2358/528a3ac31747)  
 1.4. [manageProfileData](#LinkS-!ed/45b0f/4162/1A98/528b633c5c69)  
 1.5. [validateData](#LinkS-!ed/f92e/6004/2358/528a0d463c5b)  
 1.5.1. [LinkingPacketToLinkingElements](#LinkS-!ed/d60c/7339/14D4/52822de16e2e)  
 1.5.2. [validateProfileData](#LinkS-!ed/30238/4162/1A98/528b5e502a58)

# DetermineTrainLocation Project

## Root Elements

### calculateTrainPosition Operator

Declared as **public function**

#### Comments and Information

**calculateTrainPosition Comments:**

 3.6.1.3: Calculates the actual train position from odometry and balise data

#### Interface

Table 1: Inputs of calculateTrainPosition

| Name | Type | Comments and Information |
| --- | --- | --- |
| odometryData | OdometryData\_Type | **Comments:**  Actual values from the odometry |
| passedBaliseGroup | BaliseGroupPassing\_Type | **Comments:**  Data from an actually passed balise group |
| listOfLRBGs | ListOfLRBGs\_Type | **Comments:**  Actual list of the last relevant balise groups |

Table 2: Outputs of calculateTrainPosition

| Name | Type | Comments and Information |
| --- | --- | --- |
| trainPosition | TrainPosition\_Type | **Comments:**  The resulting train position |

#### Operator Hierarchy

diagram : [diagram\_calculateTrainPosition\_1](#LinkS-!ed/1f348/6004/2358/528a24712783)

#### Graphical and Textual Diagrams

##### View of diagram\_calculateTrainPosition\_1 (calculateTrainPosition)



Figure 1: View of diagram\_calculateTrainPosition\_1 (calculateTrainPosition)

### generatePositionReport Operator

Declared as **public function**

#### Comments and Information

**generatePositionReport Comments:**

 3.6.5: Position reporting to the RBC

#### Interface

Table 3: Inputs of generatePositionReport

| Name | Type | Properties | Comments and Information |
| --- | --- | --- | --- |
| trainPosition | TrainPosition\_Type |  | **Comments:**  The actual known (or unknown) train position |
| positionReportParameters | PositionReportParameters\_Type |  |  |
| obu\_Status | Obu\_Status\_Type | hidden |  |

Table 4: Outputs of generatePositionReport

| Name | Type | Comments and Information |
| --- | --- | --- |
| positionReport | PositionReport\_Type |  |
| positionReportBasedOn2BaliseGroups | PositionReportBasedOn2BaliseGroups\_Type |  |

#### Operator Hierarchy

diagram : [diagram\_generatePositionReport\_1](#LinkS-!ed/5b420/4162/1A98/528b69b13a54)

#### Graphical and Textual Diagrams

##### View of diagram\_generatePositionReport\_1 (generatePositionReport)



Figure 2: View of diagram\_generatePositionReport\_1 (generatePositionReport)

### LinkingPacketToLinkingElements Operator

Declared as **public function**

#### Comments and Information

**LinkingPacketToLinkingElements Comments:**

 Converts a Linking Packet into an array of single linking elements

#### Interface

Table 5: Inputs of LinkingPacketToLinkingElements

| Name | Type | Comments and Information |
| --- | --- | --- |
| linkingPacket | LinkingPacket\_Type |  |

Table 6: Outputs of LinkingPacketToLinkingElements

| Name | Type | Comments and Information |
| --- | --- | --- |
| linkingElements | LinkingElements\_Type |  |

#### Operator Hierarchy

diagram : [diagram\_LinkingPacketToLinkingElements\_1](#LinkS-!ed/d60d/7339/14D4/52822de15e15)

#### Graphical and Textual Diagrams

##### View of diagram\_LinkingPacketToLinkingElements\_1 (LinkingPacketToLinkingElements)



Figure 3: View of diagram\_LinkingPacketToLinkingElements\_1 (LinkingPacketToLinkingElements)

### manage\_LRBG Operator

Declared as **public function**

#### Comments and Information

**manage\_LRBG Comments:**

 3.6.2.1, 3.6.2.2 :

 Generates and maintains the list of LRBGs

#### Interface

Table 7: Inputs of manage\_LRBG

| Name | Type | Comments and Information |
| --- | --- | --- |
| linkingInformationIsUsedOnboard | bool | **Comments:**  3.6.2.2.2 a): Designates if linking information is used on-board |
| linkingElements | LinkingElements\_Type |  |

Table 8: Outputs of manage\_LRBG

| Name | Type | Comments and Information |
| --- | --- | --- |
| listOfLRBGs | ListOfLRBGs\_Type | **Comments:**  Actual list of the last relevant balise groups |
| actual\_LRBG\_ONB | BaliseGroup\_Type | **Comments:**  3.6.2.2.2 a) The actual LRBG to be used by the OBU |

#### Operator Hierarchy

diagram : [diagram\_manage\_LRBG\_1](#LinkS-!ed/3e7cc/6004/2358/528a3ac32d1c)

#### Graphical and Textual Diagrams

##### View of diagram\_manage\_LRBG\_1 (manage\_LRBG)



Figure 4: View of diagram\_manage\_LRBG\_1 (manage\_LRBG)

**diagram\_manage\_LRBG\_1 Comments:**

 Maintains and provide the list of last relevant balise groups.

### manageProfileData Operator

Declared as **public function**

#### Comments and Information

**manageProfileData Comments:**

 3.6.3.2: Provides and maintains all resulting profile data in a list sorted by the nominal location.

#### Interface

Table 9: Inputs of manageProfileData

| Name | Type | Comments and Information |
| --- | --- | --- |
| listOfLRBGs | ListOfLRBGs\_Type | **Comments:**  Actual list of the last relevant balise groups |
| actual\_LRBG\_ONB | BaliseGroup\_Type | **Comments:**  3.6.2.2.2 a) The actual LRBG to be used by the OBU |
| profileElements | ProfileElements\_Type | **Comments:**  List of profile elements with nominal location assigned and ordered by nominal location |
| trainPosition | TrainPosition\_Type | **Comments:**  The actual known (or unknown) tain position |

Table 10: Outputs of manageProfileData

| Name | Type | Comments and Information |
| --- | --- | --- |
| profile | ProfileElements\_Type | **Comments:**  The resulting profile in front of (and perhaps after) the train. |

#### Operator Hierarchy

diagram : [diagram\_manageProfileData\_1](#LinkS-!ed/45b10/4162/1A98/528b633c9f8)

#### Graphical and Textual Diagrams

##### View of diagram\_manageProfileData\_1 (manageProfileData)



Figure 5: View of diagram\_manageProfileData\_1 (manageProfileData)

### trainLocation Operator

Declared as **public node**

#### Comments and Information

**trainLocation Comments:**

 3.6: This is the top level main component and incorporates the complete functionality of “Determine\_train\_location\_information”.

#### Interface

Table 11: Inputs of trainLocation

| Name | Type | Comments and Information |
| --- | --- | --- |
| linkingPacket | LinkingPacket\_Type | **Comments:**  Linking information from balise group or RBC |
| odometryData | OdometryData\_Type | **Comments:**  Actual values from the odometry |
| passedBaliseGroup | BaliseGroupPassing\_Type | **Comments:**  Data from an actually passed balise group |
| linkingInformationIsUsedOnboard | bool | **Comments:**  3.6.2.2.2 a): Designates if linking information is used on-board |
| receivedProfileData | ReceivedProfileData\_Type | **Comments:**  3.6.3, 3.6.3.1, 3.6.3.2: All data received from balise groups, balises and loops with location references and affecting the profile in front of (and behind) the train. |
| obu\_Status | Obu\_Status\_Type | **Comments:**  General status of the OBU: actual time, mode, level, ... |
| positionReportParameters | PositionReportParameters\_Type | **Comments:**  7.4.2.15 : parameters telling when and how often the position has to be reported |

Table 12: Outputs of trainLocation

| Name | Type | Comments and Information |
| --- | --- | --- |
| resultingProfile | ProfileElements\_Type | **Comments:**  3.6.3.2 : The resulting profile with location references in front of (and - as far as needed after) the train, sorted by the nominal location. |
| positionReport | PositionReport\_Type | **Comments:**  3.6.5 : Position report to the RBC |
| positionReportBasedOn2BaliseGroups | PositionReportBasedOn2BaliseGroups\_Type | **Comments:**  3.6.5 : Position report to the RBC |
| trainPosition | TrainPosition\_Type | **Comments:**  The resulting actual train position |

#### Locals

Table 13: Locals of trainLocation

| Name | Type | Properties | | Comments and Information |
| --- | --- | --- | --- | --- |
| actual\_LRBG\_ONB | BaliseGroup\_Type |  | | **Comments:**  3.6.2.2.2: The LRBG actually used on-board. |
| listOfLRBGs | ListOfLRBGs\_Type | last | cListOfLRBGs\_empty |  |

#### Operator Hierarchy

diagram : [diagram\_trainLocation\_1](#LinkS-!ed/3e77f/6004/2358/528a361023a6)

#### Graphical and Textual Diagrams

##### View of diagram\_trainLocation\_1 (trainLocation)



Figure 6: View of diagram\_trainLocation\_1 (trainLocation)

### validateData Operator

Declared as **public function**

#### Comments and Information

**validateData Comments:**

 3.6.3.1, 3.6.3.2:

 Checks whether received profile data containing location references shall be taken in account for the actual train orientation.

#### Interface

Table 14: Inputs of validateData

| Name | Type | Comments and Information |
| --- | --- | --- |
| linkingPacket | LinkingPacket\_Type | **Comments:**  Received linking information from balise group or RBC |
| trainPosition | TrainPosition\_Type | **Comments:**  The actual known (or unknown) train position |
| listOfLRBGs | ListOfLRBGs\_Type | **Comments:**  Actual list of the last relevant balise groups |
| receivedProfileData | ReceivedProfileData\_Type | **Comments:**  Profile data reveived from balise group, loop or RBC |

Table 15: Outputs of validateData

| Name | Type | Comments and Information |
| --- | --- | --- |
| linkingElements | LinkingElements\_Type | **Comments:**  The resulting list of linked balise groups generated from the input linkingPacket |
| profileElements | ProfileElements\_Type | **Comments:**  List of profile elements with nominal location assigned and ordered by nominal location |

#### Operator Hierarchy

diagram : [diagram\_validateData\_1](#LinkS-!ed/f92f/6004/2358/528a0d46ac7)

#### Graphical and Textual Diagrams

##### View of diagram\_validateData\_1 (validateData)



Figure 7: View of diagram\_validateData\_1 (validateData)

Table 16: diagram\_validateData\_1 Annotations

| Note Name | Attribute | Value |
| --- | --- | --- |
| Graphical\_1 | Text | To be implemented here:  Extract the relevant linking elements for the actual train orientation |
| to\_c | True |

### validateProfileData Operator

Declared as **public function**

#### Comments and Information

**validateProfileData Comments:**

 3.6.3.2 :

 Checks whether received profile data containing location references shall be taken in account for the actual train orientation.

#### Interface

Table 17: Inputs of validateProfileData

| Name | Type | Comments and Information |
| --- | --- | --- |
| receivedProfileData | ReceivedProfileData\_Type | **Comments:**  Profile data reveived from balise group, loop or RBC |
| listOfLRBGs | ListOfLRBGs\_Type | **Comments:**  Actual list of the last relevant balise groups |

Table 18: Outputs of validateProfileData

| Name | Type | Comments and Information |
| --- | --- | --- |
| profileElements | ProfileElements\_Type | **Comments:**  List of profile elements with nominal location assigned and ordered by nominal location |

#### Operator Hierarchy

diagram : [diagram\_validateProfileData\_1](#LinkS-!ed/30239/4162/1A98/528b5e501b32)

#### Graphical and Textual Diagrams

##### View of diagram\_validateProfileData\_1 (validateProfileData)



Figure 8: View of diagram\_validateProfileData\_1 (validateProfileData)

# Project Library: S026\_7

## Root Elements

### Types

Table 19: Public Types of S026\_7

| Name | Definition | Comments and Information |
| --- | --- | --- |
| A\_NVMAXREDADH1 | real |  |
| A\_NVMAXREDADH2 | real |  |
| A\_NVMAXREDADH3 | real |  |
| A\_NVP12 | real |  |
| A\_NVP23 | real |  |
| D\_ADHESION | int |  |
| D\_AXLELOAD | int |  |
| D\_CURRENT | int |  |
| D\_CYCLOC | int | **Comments:**  1111 1111 = The\_train\_has\_not\_to\_report\_cyclically\_its\_position |
| D\_DP | int |  |
| D\_EMERGENCYSTOP | int |  |
| D\_ENDTIMERSTARTLOC | int |  |
| D\_GRADIENT | int |  |
| D\_INFILL | int |  |
| D\_LEVELTR | int | **Comments:**  32767 = Now\_(The\_level\_transition\_is\_performed\_upon\_receipt\_of\_the\_order) |
| D\_LINK | int |  |
| D\_LOC | int |  |
| D\_LOOP | int | **Comments:**  32767 = Distance\_not\_known |
| D\_LRBG | int | **Comments:**  32767 = Unknown |
| D\_LX | int |  |
| D\_MAMODE | int |  |
| D\_NVOVTRP | int |  |
| D\_NVPOTRP | int |  |
| D\_NVROLL | int | **Comments:**  32767 = infinite |
| D\_NVSTFF | int | **Comments:**  32767 = infinite |
| D\_OL | int |  |
| D\_PBD | int |  |
| D\_PBDSR | int |  |
| D\_POSOFF | int |  |
| D\_RBCTR | int |  |
| D\_REF | int |  |
| D\_REVERSE | int | **Comments:**  32767 = represents\_infinite |
| D\_SECTIONTIMERSTOPLOC | int |  |
| D\_SR | int | **Comments:**  32767 = Represents\_infinite |
| D\_STARTOL | int |  |
| D\_STARTREVERSE | int |  |
| D\_STATIC | int |  |
| D\_SUITABILITY | int |  |
| D\_TAFDISPLAY | int |  |
| D\_TEXTDISPLAY | int | **Comments:**  32767 = The\_display\_of\_the\_text\_shall\_not\_be\_distance\_limited |
| D\_TRACKCOND | int |  |
| D\_TRACKINIT | int |  |
| D\_TRACTION | int |  |
| D\_TSR | int |  |
| D\_VALIDNV | int | **Comments:**  32767 = Now\_(National\_Values\_are\_immediately\_applicable) |
| G\_A | int | **Comments:**  255 = Non\_numerical\_value\_telling\_that\_the\_current\_gradient\_description\_ends\_at\_D\_GRADIENT(n) |
| G\_PBDSR | int |  |
| G\_TSR | int |  |
| L\_ACKLEVELTR | int |  |
| L\_ACKMAMODE | int |  |
| L\_ADHESION | int |  |
| L\_AXLELOAD | int |  |
| L\_DOUBTOVER | int | **Comments:**  32767 = Unknown |
| L\_DOUBTUNDER | int | **Comments:**  32767 = Unknown |
| L\_ENDSECTION | int |  |
| L\_LOOP | int | **Comments:**  32767 = Length\_not\_known |
| L\_LX | int |  |
| L\_MAMODE | int | **Comments:**  32767 = Infinite\_length |
| L\_MESSAGE | int |  |
| L\_NVKRINT | enum {L\_NVKRINT\_0m, L\_NVKRINT\_25m, L\_NVKRINT\_50m, L\_NVKRINT\_75m, L\_NVKRINT\_100m, L\_NVKRINT\_150m, L\_NVKRINT\_200m, L\_NVKRINT\_300m, L\_NVKRINT\_400m, L\_NVKRINT\_500m, L\_NVKRINT\_600m, L\_NVKRINT\_700m, L\_NVKRINT\_800m, L\_NVKRINT\_900m, L\_NVKRINT\_1000m, L\_NVKRINT\_1100m, L\_NVKRINT\_1200m, L\_NVKRINT\_1300m, L\_NVKRINT\_1400m, L\_NVKRINT\_1500m, L\_NVKRINT\_1600m, L\_NVKRINT\_1700m, L\_NVKRINT\_1800m, L\_NVKRINT\_1900m, L\_NVKRINT\_2000m, L\_NVKRINT\_2100m, L\_NVKRINT\_2200m, L\_NVKRINT\_2300m, L\_NVKRINT\_2400m, L\_NVKRINT\_2500m, L\_NVKRINT\_2600m, L\_NVKRINT\_2700m} |  |
| L\_PACKET | int |  |
| L\_PBDSR | int |  |
| L\_REVERSEAREA | int |  |
| L\_SECTION | int |  |
| L\_STOPLX | int |  |
| L\_TAFDISPLAY | int |  |
| L\_TEXT | int |  |
| L\_TEXTDISPLAY | int | **Comments:**  32767 = The\_display\_of\_the\_text\_shall\_not\_be\_distance\_limited |
| L\_TRACKCOND | int |  |
| L\_TRAIN | int |  |
| L\_TRAININT | int |  |
| L\_TSR | int |  |
| M\_ACK | enum {M\_ACK\_No\_acknowledgement\_required, M\_ACK\_Acknowledgement\_required} |  |
| M\_ADHESION | enum {M\_ADHESION\_Slippery\_rail, M\_ADHESION\_Non\_slippery\_rail} |  |
| M\_AIRTIGHT | enum {M\_AIRTIGHT\_Not\_fitted, M\_AIRTIGHT\_Fitted} |  |
| M\_AXLELOADCAT | enum {M\_AXLELOADCAT\_A, M\_AXLELOADCAT\_HS17, M\_AXLELOADCAT\_B1, M\_AXLELOADCAT\_B2, M\_AXLELOADCAT\_C2, M\_AXLELOADCAT\_C3, M\_AXLELOADCAT\_C4, M\_AXLELOADCAT\_D2, M\_AXLELOADCAT\_D3, M\_AXLELOADCAT\_D4, M\_AXLELOADCAT\_D4XL, M\_AXLELOADCAT\_E4, M\_AXLELOADCAT\_E5} |  |
| M\_CURRENT | int | **Comments:**  1023 = No\_restriction\_for\_current\_consumption |
| M\_DUP | enum {M\_DUP\_No\_duplicates, M\_DUP\_This\_balise\_is\_a\_duplicate\_of\_the\_next\_balise, M\_DUP\_This\_balise\_is\_a\_duplicate\_of\_the\_previous\_balise} |  |
| M\_ERROR | enum {M\_ERROR\_Balise\_group\_linking\_consistency\_error, M\_ERROR\_Linked\_balise\_group\_message\_consistency\_erro, M\_ERROR\_Unlinked\_balise\_group\_message\_consistency\_error, M\_ERROR\_Radio\_message\_consistency\_error, M\_ERROR\_Radio\_sequence\_error, M\_ERROR\_Radio\_safe\_radio\_connection\_error, M\_ERROR\_Safety\_critical\_failure, M\_ERROR\_Double\_linking\_error, M\_ERROR\_Double\_repositioning\_error} |  |
| M\_LEVEL | enum {M\_LEVEL\_Level\_0, M\_LEVEL\_Level\_NTC\_specified\_by\_NID\_NTC, M\_LEVEL\_Level\_1, M\_LEVEL\_Level\_2, M\_LEVEL\_Level\_3} |  |
| M\_LEVELTEXTDISPLAY | enum {M\_LEVELTEXTDISPLAY\_Level\_0, M\_LEVELTEXTDISPLAY\_Level\_NTC\_specified\_by\_NID\_NTC, M\_LEVELTEXTDISPLAY\_Level\_1, M\_LEVELTEXTDISPLAY\_Level\_2, M\_LEVELTEXTDISPLAY\_Level\_3, M\_LEVELTEXTDISPLAY\_The\_display\_of\_the\_text\_shall\_not\_be\_limited\_by\_the\_level} |  |
| M\_LEVELTR | enum {M\_LEVELTR\_Level\_0, M\_LEVELTR\_Level\_NTC\_specified\_by\_NID\_NTC, M\_LEVELTR\_Level\_1, M\_LEVELTR\_Level\_2, M\_LEVELTR\_Level\_3} |  |
| M\_LINEGAUGE | enum {M\_LINEGAUGE\_G1, M\_LINEGAUGE\_GA, M\_LINEGAUGE\_GB, M\_LINEGAUGE\_GC} |  |
| M\_LOADINGGAUGE | enum {M\_LOADINGGAUGE\_The\_train\_does\_not\_fit\_to\_any\_of\_the\_interoperable\_loading\_gauge\_profiles, M\_LOADINGGAUGE\_G1, M\_LOADINGGAUGE\_GA, M\_LOADINGGAUGE\_GB, M\_LOADINGGAUGE\_GC} |  |
| M\_LOC | enum {M\_LOC\_Now, M\_LOC\_Every\_LRBG\_compliant\_balise\_group, M\_LOC\_Do\_not\_send\_position\_report\_on\_passage\_of\_LRBG\_compliant\_balise\_group} |  |
| M\_MAMODE | enum {M\_MAMODE\_On\_Sight, M\_MAMODE\_Shunting, M\_MAMODE\_Limited\_Supervision} |  |
| M\_MCOUNT | int | **Comments:**  254 = The\_telegram\_never\_fits\_any\_message\_of\_the\_group  255 = The\_telegram\_fits\_with\_all\_telegrams\_of\_the\_same\_balise\_group |
| M\_MODE | enum {M\_MODE\_Full\_Supervision, M\_MODE\_On\_Sight, M\_MODE\_Staff\_Responsible, M\_MODE\_Shunting, M\_MODE\_Unfitted, M\_MODE\_Sleeping, M\_MODE\_Stand\_By, M\_MODE\_Trip, M\_MODE\_Post\_Trip, M\_MODE\_System\_Failure, M\_MODE\_Isolation, M\_MODE\_Non\_Leading, M\_MODE\_Limited\_Supervision, M\_MODE\_National\_System, M\_MODE\_Reversing, M\_MODE\_Passive\_Shunting} |  |
| M\_MODETEXTDISPLAY | enum {M\_MODETEXTDISPLAY\_Full\_Supervision, M\_MODETEXTDISPLAY\_On\_Sight, M\_MODETEXTDISPLAY\_Staff\_Responsible, M\_MODETEXTDISPLAY\_Unfitted, M\_MODETEXTDISPLAY\_Stand\_By, M\_MODETEXTDISPLAY\_Trip, M\_MODETEXTDISPLAY\_Post\_Trip, M\_MODETEXTDISPLAY\_Non\_Leading, M\_MODETEXTDISPLAY\_Limited\_Supervision, M\_MODETEXTDISPLAY\_Reversing, M\_MODETEXTDISPLAY\_The\_display\_of\_the\_text\_shall\_not\_be\_limited\_by\_the\_mode} |  |
| M\_NVAVADH | real |  |
| M\_NVCONTACT | enum {M\_NVCONTACT\_Train\_trip, M\_NVCONTACT\_Apply\_service\_brake, M\_NVCONTACT\_No\_Reaction} |  |
| M\_NVDERUN | enum {M\_NVDERUN\_No, M\_NVDERUN\_Yes} |  |
| M\_NVEBCL | enum {M\_NVEBCL\_Confidence\_level\_50, M\_NVEBCL\_Confidence\_level\_90, M\_NVEBCL\_Confidence\_level\_99, M\_NVEBCL\_Confidence\_level\_99\_9, M\_NVEBCL\_Confidence\_level\_99\_99, M\_NVEBCL\_Confidence\_level\_99\_999, M\_NVEBCL\_Confidence\_level\_99\_9999, M\_NVEBCL\_Confidence\_level\_99\_99999, M\_NVEBCL\_Confidence\_level\_99\_999999, M\_NVEBCL\_Confidence\_level\_99\_9999999} |  |
| M\_NVKRINT | real |  |
| M\_NVKTINT | real |  |
| M\_NVKVINT | real |  |
| M\_PLATFORM | enum {M\_PLATFORM\_200\_mm, M\_PLATFORM\_300380\_mm, M\_PLATFORM\_550\_mm, M\_PLATFORM\_580\_mm, M\_PLATFORM\_680\_mm, M\_PLATFORM\_685\_mm, M\_PLATFORM\_730\_mm, M\_PLATFORM\_760\_mm, M\_PLATFORM\_840\_mm, M\_PLATFORM\_900\_mm, M\_PLATFORM\_915\_mm, M\_PLATFORM\_920\_mm, M\_PLATFORM\_960\_mm, M\_PLATFORM\_1100\_mm} |  |
| M\_POSITION | int | **Comments:**  16777215 = No\_more\_geographical\_position\_calculation\_after\_this\_reference\_location |
| M\_TRACKCOND | enum {M\_TRACKCOND\_Non\_stopping\_area\_Initial\_state\_is\_stopping\_permitted, M\_TRACKCOND\_Tunnel\_stopping\_area\_Initial\_state\_is\_no\_tunnel\_stopping\_area, M\_TRACKCOND\_Sound\_horn\_Initial\_state\_is\_is\_no\_request\_for\_sound\_horn, M\_TRACKCOND\_Powerless\_section\_Lower\_pantograph\_Initial\_state\_is\_not\_powerless\_section, M\_TRACKCOND\_Radio\_hole\_stop\_supervising\_T\_NVCONTACT\_Initial\_state\_is\_supervise\_T\_NVCONTACT, M\_TRACKCOND\_Air\_tightness\_Initial\_state\_is\_no\_request\_for\_air\_tightness, M\_TRACKCOND\_Switch\_off\_regenerative\_brake\_Initial\_state\_is\_regenerative\_brake\_on, M\_TRACKCOND\_Switch\_off\_eddy\_current\_brake\_for\_service\_brake\_Initial\_state\_is\_eddy\_current\_brake\_for\_service\_brake\_on, M\_TRACKCOND\_Switch\_off\_magnetic\_shoe\_brake\_Initial\_state\_is\_magnetic\_shoe\_brake\_on, M\_TRACKCOND\_Powerless\_section\_switch\_off\_the\_main\_power\_switch\_Initial\_state\_is\_not\_powerless\_section, M\_TRACKCOND\_Switch\_off\_eddy\_current\_brake\_for\_emergency\_brake\_Initial\_state\_is\_eddy\_current\_brake\_for\_emergency\_brake\_on} |  |
| M\_VERSION | enum {M\_VERSION\_Previous\_versions\_according\_to\_e\_g\_EEIG\_SRS\_and\_UIC\_A200\_SRS, M\_VERSION\_Version\_1\_0\_introduced\_in\_SRS\_1\_2\_0\_and\_reused\_in\_SRSs\_2\_0\_0\_and\_2\_2\_2\_and\_2\_3\_0, M\_VERSION\_Version\_1\_1\_introduced\_in\_SRS\_3\_3\_0, M\_VERSION\_Version\_2\_0\_introduced\_in\_SRS\_3\_3\_0} |  |
| M\_VOLTAGE | enum {M\_VOLTAGE\_Line\_not\_fitted\_with\_any\_traction\_system, M\_VOLTAGE\_AC\_25\_kV\_50\_Hz, M\_VOLTAGE\_AC\_15\_kV\_16\_7\_Hz, M\_VOLTAGE\_DC\_3\_kV, M\_VOLTAGE\_DC\_1\_5\_kV, M\_VOLTAGE\_DC\_600\_or\_750\_V} |  |
| N\_AXLE | int | **Comments:**  1023 = Unknown |
| N\_ITER | int |  |
| N\_PIG | enum {N\_PIG\_I\_am\_the\_1st, N\_PIG\_I\_am\_the\_2nd, N\_PIG\_I\_am\_the\_3rd, N\_PIG\_I\_am\_the\_4th, N\_PIG\_I\_am\_the\_5th, N\_PIG\_I\_am\_the\_6th, N\_PIG\_I\_am\_the\_7th, N\_PIG\_I\_am\_the\_8th} |  |
| N\_TOTAL | enum {N\_TOTAL\_1\_balise\_in\_the\_group, N\_TOTAL\_2\_balises\_in\_the\_group, N\_TOTAL\_3\_balises\_in\_the\_group, N\_TOTAL\_4\_balises\_in\_the\_group, N\_TOTAL\_5\_balises\_in\_the\_group, N\_TOTAL\_6\_balises\_in\_the\_group, N\_TOTAL\_7\_balises\_in\_the\_group, N\_TOTAL\_8\_balises\_in\_the\_group} |  |
| NC\_CDDIFF | enum {NC\_CDDIFF\_Specific\_SSP\_applicable\_to\_Cant\_Deficiency\_80\_mm, NC\_CDDIFF\_Specific\_SSP\_applicable\_to\_Cant\_Deficiency\_100\_mm, NC\_CDDIFF\_Specific\_SSP\_applicable\_to\_Cant\_Deficiency\_130\_mm, NC\_CDDIFF\_Specific\_SSP\_applicable\_to\_Cant\_Deficiency\_150\_mm, NC\_CDDIFF\_Specific\_SSP\_applicable\_to\_Cant\_Deficiency\_165\_mm, NC\_CDDIFF\_Specific\_SSP\_applicable\_to\_Cant\_Deficiency\_180\_mm, NC\_CDDIFF\_Specific\_SSP\_applicable\_to\_Cant\_Deficiency\_210\_mm, NC\_CDDIFF\_Specific\_SSP\_applicable\_to\_Cant\_Deficiency\_225\_mm, NC\_CDDIFF\_Specific\_SSP\_applicable\_to\_Cant\_Deficiency\_245\_mm, NC\_CDDIFF\_Specific\_SSP\_applicable\_to\_Cant\_Deficiency\_275\_mm, NC\_CDDIFF\_Specific\_SSP\_applicable\_to\_Cant\_Deficiency\_300\_mm} |  |
| NC\_CDTRAIN | enum {NC\_CDTRAIN\_Cant\_Deficiency\_80\_mm, NC\_CDTRAIN\_Cant\_Deficiency\_100\_mm, NC\_CDTRAIN\_Cant\_Deficiency\_130\_mm, NC\_CDTRAIN\_Cant\_Deficiency\_150\_mm, NC\_CDTRAIN\_Cant\_Deficiency\_165\_mm, NC\_CDTRAIN\_Cant\_Deficiency\_180\_mm, NC\_CDTRAIN\_Cant\_Deficiency\_210\_mm, NC\_CDTRAIN\_Cant\_Deficiency\_225\_mm, NC\_CDTRAIN\_Cant\_Deficiency\_245\_mm, NC\_CDTRAIN\_Cant\_Deficiency\_275\_mm, NC\_CDTRAIN\_Cant\_Deficiency\_300\_mm} |  |
| NC\_DIFF | int | **Comments:**  0 = Specific\_SSP\_applicable\_to\_Freight\_train\_braked\_in\_P\_position  1 = Specific\_SSP\_applicable\_to\_Freight\_train\_braked\_in\_G\_position  2 = Specific\_SSP\_applicable\_to\_Passenger\_train |
| NC\_TRAIN | enum {NC\_TRAIN\_Train\_does\_not\_belong\_to\_any\_of\_the\_Other\_International\_Train\_Category, NC\_TRAIN\_Freight\_train\_braked\_in\_P\_position, NC\_TRAIN\_Freight\_train\_braked\_in\_G\_position, NC\_TRAIN\_Passenger\_train} |  |
| NID\_BG | int | **Comments:**  16383 = Identity\_is\_unknown\_(only\_to\_be\_used\_for\_Linking\_information) |
| NID\_C | int |  |
| NID\_CTRACTION | int |  |
| NID\_EM | int |  |
| NID\_ENGINE | int |  |
| NID\_LOOP | int |  |
| NID\_LRBG | int | **Comments:**  16777215 = Unknown |
| NID\_LTRBG | int |  |
| NID\_LX | int | **Comments:**  0-126 = Reserved\_for\_non\_RBC\_transmission\_(balise\_loop\_or\_radio\_infill)  127-255 = Reserved\_for\_RBC\_transmission |
| NID\_MESSAGE | int |  |
| NID\_MN | int | **Comments:**  A-E = Not\_Used  F = Use\_value\_F\_for\_digit\_to\_indicate\_no\_digit\_(if\_number\_shorter\_than\_6\_digits) |
| NID\_NTC | int |  |
| NID\_OPERATIONAL | int | **Comments:**  F = Use\_value\_F\_for\_digit\_to\_indicate\_no\_digit\_(if\_number\_shorter\_than\_8\_digits) |
| NID\_PACKET | int |  |
| NID\_PRVLRBG | int | **Comments:**  16777215 = unknown |
| NID\_RADIO | int | **Comments:**  A-E = Not\_Used  F = Use\_value\_F\_for\_digit\_to\_indicate\_no\_digit\_(if\_number\_shorter\_than\_16\_digits)  FFFF FFFF FFFF FFFF = Use\_the\_short\_number\_stored\_onboard |
| NID\_RBC | int | **Comments:**  16383 = Contact\_last\_known\_RBC |
| NID\_RIU | int |  |
| NID\_TEXTMESSAGE | int |  |
| NID\_TSR | int | **Comments:**  0-126 = Reserved\_for\_non\_RBC\_transmission\_(balise\_loop\_or\_radio\_infill)  127-254 = Reserved\_for\_RBC\_transmission  255 = Nonrevocable\_speed\_restriction\_(applicable\_for\_all\_transmission\_media) |
| NID\_VBCMK | int |  |
| NID\_XUSER | int |  |
| Q\_ASPECT | enum {Q\_ASPECT\_Stop\_if\_in\_SH\_mode, Q\_ASPECT\_Go\_if\_in\_SH\_mode} |  |
| Q\_CONFTEXTDISPLAY | enum {Q\_CONFTEXTDISPLAY\_Driver\_acknowledgement\_always\_ends\_the\_text\_display\_regardless\_of\_the\_end\_condition, Q\_CONFTEXTDISPLAY\_Driver\_acknowledgement\_is\_an\_additional\_condition\_to\_end\_the\_display} |  |
| Q\_DANGERPOINT | enum {Q\_DANGERPOINT\_No\_danger\_point\_information, Q\_DANGERPOINT\_Danger\_point\_information\_to\_follow} |  |
| Q\_DIFF | enum {Q\_DIFF\_Cant\_Deficiency\_specific\_category, Q\_DIFF\_Other\_specific\_category\_replaces\_the\_Cant\_Deficiency\_SSP, Q\_DIFF\_Other\_specific\_category\_does\_not\_replace\_the\_Cant\_Deficiency\_SSP} |  |
| Q\_DIR | enum {Q\_DIR\_Reverse, Q\_DIR\_Nominal, Q\_DIR\_Both\_directions} |  |
| Q\_DIRLRBG | enum {Q\_DIRLRBG\_Reverse, Q\_DIRLRBG\_Nominal, Q\_DIRLRBG\_Unknown} |  |
| Q\_DIRTRAIN | enum {Q\_DIRTRAIN\_Reverse, Q\_DIRTRAIN\_Nominal, Q\_DIRTRAIN\_Unknown} |  |
| Q\_DLRBG | enum {Q\_DLRBG\_Reverse, Q\_DLRBG\_Nominal, Q\_DLRBG\_Unknown} |  |
| Q\_EMERGENCYSTOP | enum {Q\_EMERGENCYSTOP\_Conditional\_Emergency\_Stop\_accepted\_with\_update\_of\_EOA, Q\_EMERGENCYSTOP\_Conditional\_Emergency\_Stop\_accepted\_with\_no\_update\_of\_EOA, Q\_EMERGENCYSTOP\_Unconditional\_Emergency\_Stop\_accepted, Q\_EMERGENCYSTOP\_Emergency\_stop} |  |
| Q\_ENDTIMER | enum {Q\_ENDTIMER\_No\_End\_section\_timer\_information, Q\_ENDTIMER\_End\_section\_timer\_information\_to\_follow} |  |
| Q\_FRONT | enum {Q\_FRONT\_Train\_length\_delay\_on\_validity\_end\_point\_of\_profile\_element, Q\_FRONT\_No\_train\_length\_delay\_on\_validity\_end\_point\_of\_profile\_element} |  |
| Q\_GDIR | enum {Q\_GDIR\_downhill, Q\_GDIR\_uphill} |  |
| Q\_INFILL | enum {Q\_INFILL\_Enter, Q\_INFILL\_Exit} |  |
| Q\_LENGTH | enum {Q\_LENGTH\_No\_train\_integrity\_information\_available, Q\_LENGTH\_Train\_integrity\_confirmed\_by\_integrity\_monitoring\_device, Q\_LENGTH\_Train\_integrity\_confirmed\_by\_driver, Q\_LENGTH\_Train\_integrity\_lost} |  |
| Q\_LGTLOC | enum {Q\_LGTLOC\_Min\_safe\_rear\_end, Q\_LGTLOC\_Max\_safe\_front\_end} |  |
| Q\_LINK | enum {Q\_LINK\_Unlinked, Q\_LINK\_Linked} |  |
| Q\_LINKORIENTATION | enum {Q\_LINKORIENTATION\_The\_balise\_group\_is\_seen\_by\_the\_train\_in\_reverse\_direction, Q\_LINKORIENTATION\_The\_balise\_group\_is\_seen\_by\_the\_train\_in\_nominal\_direction} |  |
| Q\_LINKREACTION | enum {Q\_LINKREACTION\_Train\_trip, Q\_LINKREACTION\_Apply\_service\_brake, Q\_LINKREACTION\_No\_Reaction} |  |
| Q\_LOCACC | int |  |
| Q\_LOOPDIR | enum {Q\_LOOPDIR\_Opposite, Q\_LOOPDIR\_Same} |  |
| Q\_LXSTATUS | enum {Q\_LXSTATUS\_LX\_is\_protected, Q\_LXSTATUS\_LX\_is\_not\_protected} |  |
| Q\_MAMODE | enum {Q\_MAMODE\_as\_the\_EOA, Q\_MAMODE\_as\_both\_the\_EOA\_and\_SvL} |  |
| Q\_MARQSTREASON | enum {Q\_MARQSTREASON\_Start\_selected\_by\_driver, Q\_MARQSTREASON\_Time\_before\_reaching\_preindication\_location\_for\_the\_EOA\_or\_LOA\_reached, Q\_MARQSTREASON\_Time\_before\_a\_section\_timer\_or\_LOA\_speed\_timer\_expires\_reached, Q\_MARQSTREASON\_Track\_description\_deleted, Q\_MARQSTREASON\_TAF\_up\_to\_level\_2\_or\_3\_transition\_location} |  |
| Q\_MEDIA | enum {Q\_MEDIA\_Balise, Q\_MEDIA\_Loop} |  |
| Q\_MPOSITION | enum {Q\_MPOSITION\_Opposite, Q\_MPOSITION\_Same} |  |
| Q\_NEWCOUNTRY | enum {Q\_NEWCOUNTRY\_Same\_country\_\_or\_\_railway\_administration\_no\_NID\_C\_follows, Q\_NEWCOUNTRY\_Not\_the\_same\_country\_\_or\_\_railway\_administration\_NID\_C\_follows} |  |
| Q\_NVDRIVER\_ADHES | enum {Q\_NVDRIVER\_ADHES\_Not\_allowed, Q\_NVDRIVER\_ADHES\_Allowed} |  |
| Q\_NVEMRRLS | enum {Q\_NVEMRRLS\_Revoke\_emergency\_brake\_command\_at\_standstill, Q\_NVEMRRLS\_Revoke\_emergency\_brake\_command\_when\_permitted\_speed\_supervision\_limit\_is\_no\_longer\_exceeded} |  |
| Q\_NVGUIPERM | enum {Q\_NVGUIPERM\_No, Q\_NVGUIPERM\_Yes} |  |
| Q\_NVINHSMICPERM | enum {Q\_NVINHSMICPERM\_No, Q\_NVINHSMICPERM\_Yes} |  |
| Q\_NVKINT | enum {Q\_NVKINT\_No\_integrated\_correction\_factors\_follow, Q\_NVKINT\_Integrated\_correction\_factors\_follow} |  |
| Q\_NVKVINTSET | enum {Q\_NVKVINTSET\_Freight\_trains, Q\_NVKVINTSET\_Conventional\_passenger\_trains} |  |
| Q\_NVLOCACC | int |  |
| Q\_NVSBFBPERM | enum {Q\_NVSBFBPERM\_No, Q\_NVSBFBPERM\_Yes} |  |
| Q\_NVSBTSMPERM | enum {Q\_NVSBTSMPERM\_No, Q\_NVSBTSMPERM\_Yes} |  |
| Q\_ORIENTATION | enum {Q\_ORIENTATION\_The\_balise\_group\_has\_been\_passed\_by\_the\_train\_in\_reverse\_direction, Q\_ORIENTATION\_The\_balise\_group\_has\_been\_passed\_by\_the\_train\_in\_nominal\_direction} |  |
| Q\_OVERLAP | enum {Q\_OVERLAP\_No\_overlap\_information, Q\_OVERLAP\_Overlap\_information\_to\_follow} |  |
| Q\_PBDSR | enum {Q\_PBDSR\_EB\_intervention\_requested, Q\_PBDSR\_SB\_intervention\_requested} |  |
| Q\_PLATFORM | enum {Q\_PLATFORM\_Platform\_on\_left\_side, Q\_PLATFORM\_Platform\_on\_right\_side, Q\_PLATFORM\_Platform\_on\_both\_sides} |  |
| Q\_RBC | enum {Q\_RBC\_Terminate\_communication\_session, Q\_RBC\_Establish\_communication\_session} |  |
| Q\_RIU | enum {Q\_RIU\_Terminate\_communication\_session, Q\_RIU\_Establish\_communication\_session} |  |
| Q\_SCALE | enum {Q\_SCALE\_10\_cm\_scale, Q\_SCALE\_1\_m\_scale, Q\_SCALE\_10\_m\_scale} |  |
| Q\_SECTIONTIMER | enum {Q\_SECTIONTIMER\_No\_Section\_Timer\_information, Q\_SECTIONTIMER\_Section\_Timer\_information\_to\_follow} |  |
| Q\_SLEEPSESSION | enum {Q\_SLEEPSESSION\_Ignore\_session\_establishment\_order, Q\_SLEEPSESSION\_Execute\_session\_establishment\_order} |  |
| Q\_SRSTOP | enum {Q\_SRSTOP\_Stop\_if\_in\_SR\_mode, Q\_SRSTOP\_Go\_if\_in\_SR\_mode} |  |
| Q\_SSCODE | int | **Comments:**  15 = Code\_reserved\_for\_test\_purposes |
| Q\_STATUS | enum {Q\_STATUS\_Valid, Q\_STATUS\_Unknown} |  |
| Q\_STOPLX | enum {Q\_STOPLX\_No\_stop\_required, Q\_STOPLX\_Stop\_required} |  |
| Q\_SUITABILITY | enum {Q\_SUITABILITY\_Loading\_gauge, Q\_SUITABILITY\_Max\_axle\_load, Q\_SUITABILITY\_Traction\_system} |  |
| Q\_TEXT | enum {Q\_TEXT\_Level\_crossing\_not\_protected, Q\_TEXT\_Acknowledgement} |  |
| Q\_TEXTCLASS | enum {Q\_TEXTCLASS\_Auxiliary\_Information, Q\_TEXTCLASS\_Important\_Information} |  |
| Q\_TEXTCONFIRM | enum {Q\_TEXTCONFIRM\_No\_confirmation\_required, Q\_TEXTCONFIRM\_Confirmation\_required, Q\_TEXTCONFIRM\_Confirmation\_required\_command\_application\_of\_the\_service\_brake\_when\_display\_end\_condition\_is\_fulfilled\_unless\_the\_text\_has\_already\_been\_acknowledged\_by\_the\_driver, Q\_TEXTCONFIRM\_Confirmation\_required\_command\_application\_of\_the\_emergency\_brake\_when\_display\_end\_condition\_is\_fulfilled\_unless\_the\_text\_has\_already\_been\_acknowledged\_by\_the\_driver} |  |
| Q\_TEXTDISPLAY | enum {Q\_TEXTDISPLAY\_No\_display\_as\_soon\_as\_\_or\_\_until\_one\_of\_the\_events\_is\_fulfilled, Q\_TEXTDISPLAY\_Yes\_display\_as\_soon\_as\_\_or\_\_until\_all\_events\_are\_fulfilled} |  |
| Q\_TEXTREPORT | enum {Q\_TEXTREPORT\_No\_driver\_acknowledgement\_report\_required, Q\_TEXTREPORT\_Driver\_acknowledgement\_report\_required} |  |
| Q\_TRACKINIT | enum {Q\_TRACKINIT\_No\_initial\_states\_to\_be\_resumed\_profile\_to\_follow, Q\_TRACKINIT\_Empty\_profile\_initial\_states\_to\_be\_resumed} |  |
| Q\_UPDOWN | enum {Q\_UPDOWN\_Down\_link\_telegram, Q\_UPDOWN\_Up\_link\_telegram} |  |
| Q\_VBCO | enum {Q\_VBCO\_Remove\_the\_Virtual\_Balise\_Cover, Q\_VBCO\_Set\_the\_Virtual\_Balise\_Cover} |  |
| T\_CYCLOC | int | **Comments:**  255 = infinite |
| T\_CYCRQST | int | **Comments:**  255 = No\_repetition |
| T\_ENDTIMER | int | **Comments:**  1023 = infinite |
| T\_LOA | int | **Comments:**  1023 = infinite |
| T\_MAR | int | **Comments:**  255 = \_No\_MA\_request\_triggering\_with\_regards\_to\_this\_function |
| T\_NVCONTACT | int | **Comments:**  1111 1111 = T\_NVCONTACT\_infinite |
| T\_NVOVTRP | int |  |
| T\_OL | int | **Comments:**  1023 = infinite |
| T\_SECTIONTIMER | int | **Comments:**  1023 = infinite |
| T\_TEXTDISPLAY | int | **Comments:**  1023 = Display\_of\_text\_not\_limited\_by\_time |
| T\_TIMEOUTRQST | int | **Comments:**  1023 = \_No\_MA\_request\_triggering\_with\_regards\_to\_this\_function |
| T\_TRAIN | real | **Comments:**  4294967295 = Unknown |
| T\_VBC | int |  |
| V\_AXLELOAD | int |  |
| V\_DIFF | int |  |
| V\_LOA | int |  |
| V\_LX | int |  |
| V\_MAIN | int | **Comments:**  0 = Means\_trip\_order |
| V\_MAMODE | int | **Comments:**  127 = Use\_the\_national\_speed\_value\_of\_the\_required\_mode |
| V\_MAXTRAIN | int |  |
| V\_NVALLOWOVTRP | int |  |
| V\_NVKVINT | int |  |
| V\_NVLIMSUPERV | int |  |
| V\_NVONSIGHT | int |  |
| V\_NVREL | int |  |
| V\_NVSHUNT | int |  |
| V\_NVSTFF | int |  |
| V\_NVSUPOVTRP | int |  |
| V\_NVUNFIT | int |  |
| V\_RELEASEDP | int | **Comments:**  126 = Use\_onboard\_calculated\_release\_speed  127 = Use\_national\_value |
| V\_RELEASEOL | int | **Comments:**  126 = Use\_onboard\_calculated\_release\_speed  127 = Use\_national\_value |
| V\_REVERSE | int |  |
| V\_STATIC | int | **Comments:**  127 = Non\_numerical\_value\_telling\_that\_the\_static\_speed\_profile\_description\_ends\_at\_D\_STATIC(n) |
| V\_TRAIN | int |  |
| V\_TSR | int |  |
| X\_TEXT | int |  |

## BothWays Package

### Types

Table 20: Public Types of BothWays

| Name | Definition | Comments and Information |
| --- | --- | --- |
| End\_of\_Information | {NID\_PACKET : int} |  |

## TrackToTrain Package

### Types

Table 21: Public Types of TrackToTrain

| Name | Definition | Comments and Information |
| --- | --- | --- |
| Adhesion\_factor | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_ADHESION : int, L\_ADHESION : int, M\_ADHESION : int} |  |
| AVar120 | TrackToTrain::Var120 ^33 |  |
| AVar130 | TrackToTrain::Var130 ^33 |  |
| AVar150 | TrackToTrain::Var150 ^33 |  |
| AVar210 | TrackToTrain::Var210 ^33 |  |
| AVar270 | TrackToTrain::Var270 ^33 |  |
| AVar271 | TrackToTrain::Var271 ^33 |  |
| AVar272 | TrackToTrain::Var272 ^33 |  |
| AVar30 | TrackToTrain::Var30 ^33 |  |
| AVar31 | TrackToTrain::Var31 ^33 |  |
| AVar32 | TrackToTrain::Var32 ^33 |  |
| AVar33 | TrackToTrain::Var33 ^33 |  |
| AVar34 | TrackToTrain::Var34 ^33 |  |
| AVar410 | TrackToTrain::Var410 ^33 |  |
| AVar460 | TrackToTrain::Var460 ^33 |  |
| AVar490 | TrackToTrain::Var490 ^33 |  |
| AVar50 | TrackToTrain::Var50 ^33 |  |
| AVar510 | TrackToTrain::Var510 ^33 |  |
| AVar511 | TrackToTrain::Var511 ^33 |  |
| AVar512 | TrackToTrain::Var512 ^33 |  |
| AVar520 | TrackToTrain::Var520 ^33 |  |
| AVar580 | TrackToTrain::Var580 ^33 |  |
| AVar630 | TrackToTrain::Var630 ^33 |  |
| AVar670 | TrackToTrain::Var670 ^33 |  |
| AVar680 | TrackToTrain::Var680 ^33 |  |
| AVar690 | TrackToTrain::Var690 ^33 |  |
| AVar700 | TrackToTrain::Var700 ^33 |  |
| AVar790 | TrackToTrain::Var790 ^33 |  |
| AVar800 | TrackToTrain::Var800 ^33 |  |
| Axle\_Load\_Speed\_Profile | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, Q\_TRACKINIT : int, D\_TRACKINIT : int, D\_AXLELOAD : int, L\_AXLELOAD : int, Q\_FRONT : int, Struct22 : TrackToTrain::SVar510, Struct23 : TrackToTrain::SVar511} |  |
| Conditional\_Level\_Transition\_Order | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, M\_LEVELTR : int, NID\_NTC : int, Struct20 : TrackToTrain::SVar460} |  |
| Danger\_for\_Shunting\_information | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_ASPECT : int} |  |
| Data\_used\_by\_applications\_outside\_the\_ERTMSETCS\_system | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, NID\_XUSER : int, NID\_NTC : int, Other\_data\_depending\_on\_\_NID\_XUSER : int} |  |
| Default\_balise\_or\_Loop\_or\_RIU\_information | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int} |  |
| Default\_Gradient\_for\_Temporary\_Speed\_Restriction | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_GDIR : int, G\_TSR : int} |  |
| EOLM\_Packet | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, NID\_LOOP : int, D\_LOOP : int, L\_LOOP : int, Q\_LOOPDIR : int, Q\_SSCODE : int} |  |
| Geographical\_Position\_Information | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, Q\_NEWCOUNTRY : int, NID\_C : int, NID\_BG : int, D\_POSOFF : int, Q\_MPOSITION : int, M\_POSITION : int, Struct44 : TrackToTrain::SVar790} |  |
| Gradient\_Profile | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_GRADIENT : int, Q\_GDIR : int, G\_A : int, Struct15 : TrackToTrain::SVar210} |  |
| Infill\_location\_reference | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_NEWCOUNTRY : int, NID\_C : int, NID\_BG : int} |  |
| Inhibition\_of\_balise\_group\_message\_consistency\_reaction | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int} |  |
| Inhibition\_of\_revocable\_TSRs\_from\_balises\_in\_L23 | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int} |  |
| International\_Static\_Speed\_Profile | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_STATIC : int, V\_STATIC : int, Q\_FRONT : int, Struct16 : TrackToTrain::SVar270, Struct17 : TrackToTrain::SVar271} |  |
| Level\_1\_Movement\_Authority | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, V\_MAIN : int, V\_LOA : int, T\_LOA : int, Struct6 : TrackToTrain::SVar120, L\_ENDSECTION : int, Q\_SECTIONTIMER : int, T\_SECTIONTIMER : int, D\_SECTIONTIMERSTOPLOC : int, Q\_ENDTIMER : int, T\_ENDTIMER : int, D\_ENDTIMERSTARTLOC : int, Q\_DANGERPOINT : int, D\_DP : int, V\_RELEASEDP : int, Q\_OVERLAP : int, D\_STARTOL : int, T\_OL : int, D\_OL : int, V\_RELEASEOL : int} |  |
| Level\_23\_Movement\_Authority | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, V\_LOA : int, T\_LOA : int, Struct14 : TrackToTrain::SVar150, L\_ENDSECTION : int, Q\_SECTIONTIMER : int, T\_SECTIONTIMER : int, D\_SECTIONTIMERSTOPLOC : int, Q\_ENDTIMER : int, T\_ENDTIMER : int, D\_ENDTIMERSTARTLOC : int, Q\_DANGERPOINT : int, D\_DP : int, V\_RELEASEDP : int, Q\_OVERLAP : int, D\_STARTOL : int, T\_OL : int, D\_OL : int, V\_RELEASEOL : int} |  |
| Level\_Crossing\_information | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, NID\_LX : int, D\_LX : int, L\_LX : int, Q\_LXSTATUS : int, V\_LX : int, Q\_STOPLX : int, L\_STOPLX : int} |  |
| Level\_Transition\_Order | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_LEVELTR : int, M\_LEVELTR : int, NID\_NTC : int, L\_ACKLEVELTR : int, Struct19 : TrackToTrain::SVar410} |  |
| Linking | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_LINK : int, Q\_NEWCOUNTRY : int, NID\_C : int, NID\_BG : int, Q\_LINKORIENTATION : int, Q\_LINKREACTION : int, Q\_LOCACC : int, Struct5 : TrackToTrain::SVar50} |  |
| List\_of\_balises\_for\_SH\_Area | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Struct21 : TrackToTrain::SVar490} |  |
| List\_of\_Balises\_in\_SR\_Authority | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Struct27 : TrackToTrain::SVar630} |  |
| Mode\_profile | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_MAMODE : int, M\_MAMODE : int, V\_MAMODE : int, L\_MAMODE : int, L\_ACKMAMODE : int, Q\_MAMODE : int, Struct45 : TrackToTrain::SVar800} |  |
| Movement\_Authority\_Request\_Parameters | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, T\_MAR : int, T\_TIMEOUTRQST : int, T\_CYCRQST : int} |  |
| National\_Values | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_VALIDNV : int, NID\_C : int, Struct0 : TrackToTrain::SVar30, V\_NVSHUNT : int, V\_NVSTFF : int, V\_NVONSIGHT : int, V\_NVLIMSUPERV : int, V\_NVUNFIT : int, V\_NVREL : int, D\_NVROLL : int, Q\_NVSBTSMPERM : int, Q\_NVEMRRLS : int, Q\_NVGUIPERM : int, Q\_NVSBFBPERM : int, Q\_NVINHSMICPERM : int, V\_NVALLOWOVTRP : int, V\_NVSUPOVTRP : int, D\_NVOVTRP : int, T\_NVOVTRP : int, D\_NVPOTRP : int, M\_NVCONTACT : int, T\_NVCONTACT : int, M\_NVDERUN : int, D\_NVSTFF : int, Q\_NVDRIVER\_ADHES : int, A\_NVMAXREDADH1 : real, A\_NVMAXREDADH2 : real, A\_NVMAXREDADH3 : real, Q\_NVLOCACC : int, M\_NVAVADH : real, M\_NVEBCL : int, Q\_NVKINT : int, Q\_NVKVINTSET : int, A\_NVP12 : real, A\_NVP23 : real, V\_NVKVINT : int, M\_NVKVINT : real, Struct1 : TrackToTrain::SVar31, Struct2 : TrackToTrain::SVar32, L\_NVKRINT : int, M\_NVKRINT : real, Struct4 : TrackToTrain::SVar34, M\_NVKTINT : real} |  |
| Packet\_for\_sending\_fixed\_text\_messages | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, Q\_TEXTCLASS : int, Q\_TEXTDISPLAY : int, D\_TEXTDISPLAY : int, Struct40 : TrackToTrain::Var767, L\_TEXTDISPLAY : int, T\_TEXTDISPLAY : int, Struct43 : TrackToTrain::Var767, Q\_TEXTCONFIRM : int, Q\_CONFTEXTDISPLAY : int, Q\_TEXTREPORT : int, NID\_TEXTMESSAGE : int, NID\_C : int, NID\_RBC : int, Q\_TEXT : int} |  |
| Packet\_for\_sending\_plain\_text\_messages | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, Q\_TEXTCLASS : int, Q\_TEXTDISPLAY : int, D\_TEXTDISPLAY : int, Struct34 : TrackToTrain::Var727, L\_TEXTDISPLAY : int, T\_TEXTDISPLAY : int, Struct37 : TrackToTrain::Var727, Q\_TEXTCONFIRM : int, Q\_CONFTEXTDISPLAY : int, Q\_TEXTREPORT : int, NID\_TEXTMESSAGE : int, NID\_C : int, NID\_RBC : int, L\_TEXT : int, X\_TEXT : int} |  |
| Permitted\_Braking\_Distance\_Information | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, Q\_TRACKINIT : int, D\_TRACKINIT : int, D\_PBD : int, Q\_GDIR : int, G\_PBDSR : int, Q\_PBDSR : int, D\_PBDSR : int, L\_PBDSR : int, Struct25 : TrackToTrain::SVar520} |  |
| Position\_Report\_Parameters | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, T\_CYCLOC : int, D\_CYCLOC : int, M\_LOC : int, Struct26 : TrackToTrain::SVar580} |  |
| Radio\_infill\_area\_information | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, Q\_RIU : int, NID\_C : int, NID\_RIU : int, NID\_RADIO : int, D\_INFILL : int, NID\_BG : int} |  |
| Radio\_Network\_registration | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, NID\_MN : int} |  |
| RBC\_transition\_order | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_RBCTR : int, NID\_C : int, NID\_RBC : int, NID\_RADIO : int, Q\_SLEEPSESSION : int} |  |
| Repositioning\_Information | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, L\_SECTION : int} |  |
| Reversing\_area\_information | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_STARTREVERSE : int, L\_REVERSEAREA : int} |  |
| Reversing\_supervision\_information | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_REVERSE : int, V\_REVERSE : int} |  |
| Route\_Suitability\_Data | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, Q\_TRACKINIT : int, D\_TRACKINIT : int, D\_SUITABILITY : int, Q\_SUITABILITY : int, M\_LINEGAUGE : int, M\_AXLELOADCAT : int, M\_VOLTAGE : int, NID\_CTRACTION : int, Struct31 : TrackToTrain::SVar700} |  |
| Session\_Management | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_RBC : int, NID\_C : int, NID\_RBC : int, NID\_RADIO : int, Q\_SLEEPSESSION : int} |  |
| Session\_Management\_with\_neighbouring\_Radio\_Infill\_Unit | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_RIU : int, NID\_C : int, NID\_RIU : int, NID\_RADIO : int} |  |
| Staff\_Responsible\_distance\_Information\_from\_loop | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, Struct9 : TrackToTrain::Var137, Struct12 : TrackToTrain::Var137, D\_SR : int, Struct13 : TrackToTrain::SVar130} |  |
| Stop\_if\_in\_Staff\_Responsible | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SRSTOP : int} |  |
| Stop\_Shunting\_on\_desk\_opening | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int} |  |
| SVar120 | {N\_ITER : int, Array : TrackToTrain::AVar120} |  |
| SVar130 | {N\_ITER : int, Array : TrackToTrain::AVar130} |  |
| SVar150 | {N\_ITER : int, Array : TrackToTrain::AVar150} |  |
| SVar210 | {N\_ITER : int, Array : TrackToTrain::AVar210} |  |
| SVar270 | {N\_ITER : int, Array : TrackToTrain::AVar270} |  |
| SVar271 | {N\_ITER : int, Array : TrackToTrain::AVar271} |  |
| SVar272 | {N\_ITER : int, Array : TrackToTrain::AVar272} |  |
| SVar30 | {N\_ITER : int, Array : TrackToTrain::AVar30} |  |
| SVar31 | {N\_ITER : int, Array : TrackToTrain::AVar31} |  |
| SVar32 | {N\_ITER : int, Array : TrackToTrain::AVar32} |  |
| SVar33 | {N\_ITER : int, Array : TrackToTrain::AVar33} |  |
| SVar34 | {N\_ITER : int, Array : TrackToTrain::AVar34} |  |
| SVar410 | {N\_ITER : int, Array : TrackToTrain::AVar410} |  |
| SVar460 | {N\_ITER : int, Array : TrackToTrain::AVar460} |  |
| SVar490 | {N\_ITER : int, Array : TrackToTrain::AVar490} |  |
| SVar50 | {N\_ITER : int, Array : TrackToTrain::AVar50} |  |
| SVar510 | {N\_ITER : int, Array : TrackToTrain::AVar510} |  |
| SVar511 | {N\_ITER : int, Array : TrackToTrain::AVar511} |  |
| SVar512 | {N\_ITER : int, Array : TrackToTrain::AVar512} |  |
| SVar520 | {N\_ITER : int, Array : TrackToTrain::AVar520} |  |
| SVar580 | {N\_ITER : int, Array : TrackToTrain::AVar580} |  |
| SVar630 | {N\_ITER : int, Array : TrackToTrain::AVar630} |  |
| SVar670 | {N\_ITER : int, Array : TrackToTrain::AVar670} |  |
| SVar680 | {N\_ITER : int, Array : TrackToTrain::AVar680} |  |
| SVar690 | {N\_ITER : int, Array : TrackToTrain::AVar690} |  |
| SVar700 | {N\_ITER : int, Array : TrackToTrain::AVar700} |  |
| SVar790 | {N\_ITER : int, Array : TrackToTrain::AVar790} |  |
| SVar800 | {N\_ITER : int, Array : TrackToTrain::AVar800} |  |
| System\_Version\_order | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, M\_VERSION : int} |  |
| Temporary\_Speed\_Restriction | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, NID\_TSR : int, D\_TSR : int, L\_TSR : int, Q\_FRONT : int, V\_TSR : int} |  |
| Temporary\_Speed\_Restriction\_Revocation | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, NID\_TSR : int} |  |
| Track\_Ahead\_Free\_up\_to\_level\_23\_transition\_location | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_NEWCOUNTRY : int, NID\_C : int, NID\_BG : int} |  |
| Track\_Condition | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, Q\_TRACKINIT : int, D\_TRACKINIT : int, D\_TRACKCOND : int, L\_TRACKCOND : int, M\_TRACKCOND : int, Struct29 : TrackToTrain::SVar680} |  |
| Track\_Condition\_Big\_Metal\_Masses | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_TRACKCOND : int, L\_TRACKCOND : int, Struct28 : TrackToTrain::SVar670} |  |
| Track\_Condition\_Change\_of\_allowed\_current\_consumption | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_CURRENT : int, M\_CURRENT : int} |  |
| Track\_Condition\_Change\_of\_traction\_system | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, D\_TRACTION : int, M\_VOLTAGE : int, NID\_CTRACTION : int} |  |
| Track\_Condition\_Station\_Platforms | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_SCALE : int, Q\_TRACKINIT : int, D\_TRACKINIT : int, D\_TRACKCOND : int, L\_TRACKCOND : int, M\_PLATFORM : int, Q\_PLATFORM : int, Struct30 : TrackToTrain::SVar690} |  |
| Train\_running\_number\_from\_RBC | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, NID\_OPERATIONAL : int} |  |
| Var120 | {L\_SECTION : int, Q\_SECTIONTIMER : int, T\_SECTIONTIMER : int, D\_SECTIONTIMERSTOPLOC : int} |  |
| Var130 | {Q\_NEWCOUNTRY : int, NID\_C : int, NID\_BG : int, D\_SR : int} |  |
| Var137 | {Q\_NEWCOUNTRY : int, NID\_C : int, NID\_BG : int} |  |
| Var150 | {L\_SECTION : int, Q\_SECTIONTIMER : int, T\_SECTIONTIMER : int, D\_SECTIONTIMERSTOPLOC : int} |  |
| Var210 | {D\_GRADIENT : int, Q\_GDIR : int, G\_A : int} |  |
| Var270 | {Q\_DIFF : int, NC\_CDDIFF : int, NC\_DIFF : int, V\_DIFF : int} |  |
| Var271 | {D\_STATIC : int, V\_STATIC : int, Q\_FRONT : int, Struct62 : TrackToTrain::SVar272} |  |
| Var272 | {Q\_DIFF : int, NC\_CDDIFF : int, NC\_DIFF : int, V\_DIFF : int} |  |
| Var30 | {NID\_C : int} |  |
| Var31 | {V\_NVKVINT : int, M\_NVKVINT : real} |  |
| Var32 | {Q\_NVKVINTSET : int, A\_NVP12 : real, A\_NVP23 : real, V\_NVKVINT : int, M\_NVKVINT : real, Struct51 : TrackToTrain::SVar33} |  |
| Var33 | {V\_NVKVINT : int, M\_NVKVINT : real} |  |
| Var34 | {L\_NVKRINT : int, M\_NVKRINT : real} |  |
| Var410 | {M\_LEVELTR : int, NID\_NTC : int, L\_ACKLEVELTR : int} |  |
| Var460 | {M\_LEVELTR : int, NID\_NTC : int} |  |
| Var490 | {Q\_NEWCOUNTRY : int, NID\_C : int, NID\_BG : int} |  |
| Var50 | {D\_LINK : int, Q\_NEWCOUNTRY : int, NID\_C : int, NID\_BG : int, Q\_LINKORIENTATION : int, Q\_LINKREACTION : int, Q\_LOCACC : int} |  |
| Var510 | {M\_AXLELOADCAT : int, V\_AXLELOAD : int} |  |
| Var511 | {D\_AXLELOAD : int, L\_AXLELOAD : int, Q\_FRONT : int, Struct68 : TrackToTrain::SVar512} |  |
| Var512 | {M\_AXLELOADCAT : int, V\_AXLELOAD : int} |  |
| Var520 | {D\_PBD : int, Q\_GDIR : int, G\_PBDSR : int, Q\_PBDSR : int, D\_PBDSR : int, L\_PBDSR : int} |  |
| Var580 | {D\_LOC : int, Q\_LGTLOC : int} |  |
| Var630 | {Q\_NEWCOUNTRY : int, NID\_C : int, NID\_BG : int} |  |
| Var670 | {D\_TRACKCOND : int, L\_TRACKCOND : int} |  |
| Var680 | {D\_TRACKCOND : int, L\_TRACKCOND : int, M\_TRACKCOND : int} |  |
| Var690 | {D\_TRACKCOND : int, L\_TRACKCOND : int, M\_PLATFORM : int, Q\_PLATFORM : int} |  |
| Var700 | {D\_SUITABILITY : int, Q\_SUITABILITY : int, M\_LINEGAUGE : int, M\_AXLELOADCAT : int, M\_VOLTAGE : int, NID\_CTRACTION : int} |  |
| Var727 | {M\_MODETEXTDISPLAY : int, M\_LEVELTEXTDISPLAY : int, NID\_NTC : int} |  |
| Var767 | {M\_MODETEXTDISPLAY : int, M\_LEVELTEXTDISPLAY : int, NID\_NTC : int} |  |
| Var790 | {Q\_NEWCOUNTRY : int, NID\_C : int, NID\_BG : int, D\_POSOFF : int, Q\_MPOSITION : int, M\_POSITION : int} |  |
| Var800 | {D\_MAMODE : int, M\_MAMODE : int, V\_MAMODE : int, L\_MAMODE : int, L\_ACKMAMODE : int, Q\_MAMODE : int} |  |
| Virtual\_Balise\_Cover\_marker | {NID\_PACKET : int, NID\_VBCMK : int} |  |
| Virtual\_Balise\_Cover\_order | {NID\_PACKET : int, Q\_DIR : int, L\_PACKET : int, Q\_VBCO : int, NID\_VBCMK : int, NID\_C : int, T\_VBC : int} |  |

## TrainToTrack Package

### Types

Table 22: Public Types of TrainToTrack

| Name | Definition | Comments and Information |
| --- | --- | --- |
| AVar110 | TrainToTrack::Var110 ^33 |  |
| AVar111 | TrainToTrack::Var111 ^33 |  |
| AVar30 | TrainToTrack::Var30 ^33 |  |
| Data\_used\_by\_applications\_outside\_the\_ERTMS\_or\_ETCS\_system | {NID\_PACKET : int, L\_PACKET : int, NID\_XUSER : int, Other\_data\_depending\_on\_\_NID\_XUSER : int} |  |
| Error\_reporting | {NID\_PACKET : int, L\_PACKET : int, M\_ERROR : int} |  |
| Level\_23\_transition\_information | {NID\_PACKET : int, L\_PACKET : int, NID\_LTRBG : int} |  |
| Onboard\_telephone\_numbers | {NID\_PACKET : int, L\_PACKET : int, Struct46 : TrainToTrack::SVar30} |  |
| Position\_Report | {NID\_PACKET : int, L\_PACKET : int, Q\_SCALE : int, NID\_LRBG : int, D\_LRBG : int, Q\_DIRLRBG : int, Q\_DLRBG : int, L\_DOUBTOVER : int, L\_DOUBTUNDER : int, Q\_LENGTH : int, L\_TRAININT : int, V\_TRAIN : int, Q\_DIRTRAIN : int, M\_MODE : int, M\_LEVEL : int, NID\_NTC : int} |  |
| Position\_Report\_based\_on\_two\_balise\_groups | {NID\_PACKET : int, L\_PACKET : int, Q\_SCALE : int, NID\_LRBG : int, NID\_PRVLRBG : int, D\_LRBG : int, Q\_DIRLRBG : int, Q\_DLRBG : int, L\_DOUBTOVER : int, L\_DOUBTUNDER : int, Q\_LENGTH : int, L\_TRAININT : int, V\_TRAIN : int, Q\_DIRTRAIN : int, M\_MODE : int, M\_LEVEL : int, NID\_NTC : int} |  |
| SVar110 | {N\_ITER : int, Array : TrainToTrack::AVar110} |  |
| SVar111 | {N\_ITER : int, Array : TrainToTrack::AVar111} |  |
| SVar30 | {N\_ITER : int, Array : TrainToTrack::AVar30} |  |
| Train\_running\_number | {NID\_PACKET : int, L\_PACKET : int, NID\_OPERATIONAL : int} |  |
| Validated\_train\_data | {NID\_PACKET : int, L\_PACKET : int, NC\_CDTRAIN : int, NC\_TRAIN : int, L\_TRAIN : int, V\_MAXTRAIN : int, M\_LOADINGGAUGE : int, M\_AXLELOADCAT : int, M\_AIRTIGHT : int, N\_AXLE : int, Struct47 : TrainToTrack::SVar110, Struct48 : TrainToTrack::SVar111} |  |
| Var110 | {M\_VOLTAGE : int, NID\_CTRACTION : int} |  |
| Var111 | {NID\_NTC : int} |  |
| Var30 | {NID\_RADIO : int} |  |

# Project Library: S026\_8

## Radio\_TrackToTrain Package

### Types

Table 23: Public Types of Radio\_TrackToTrain

| Name | Definition | Comments and Information |
| --- | --- | --- |
| Acknowledgement\_of\_termination\_of\_a\_communication\_session | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int} | **Comments:**  Radio Message Number = 39 |
| Acknowledgement\_of\_Train\_Data | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN0 : real, M\_ACK : int, NID\_LRBG : int, T\_TRAIN1 : real} | **Comments:**  Radio Message Number = 8 |
| Assignment\_of\_coordinate\_system | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int, Q\_ORIENTATION : int} | **Comments:**  Radio Message Number = 45 |
| Conditional\_Emergency\_Stop | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int, NID\_EM : int, Q\_SCALE : int, D\_REF : int, Q\_DIR : int, D\_EMERGENCYSTOP : int} | **Comments:**  Radio Message Number = 15 |
| General\_message | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int, PADDING15 : int, General\_message\_OptionalPackets : int} | **Comments:**  Radio Message Number = 24 |
| General\_message\_OptionalPackets | enum {General\_message\_OptionalPackageNumber\_21, General\_message\_OptionalPackageNumber\_27, General\_message\_OptionalPackageNumber\_45, General\_message\_OptionalPackageNumber\_143, General\_message\_OptionalPackageNumber\_254, General\_message\_OptionalPackageNumber\_3, General\_message\_OptionalPackageNumber\_5, General\_message\_OptionalPackageNumber\_39, General\_message\_OptionalPackageNumber\_40, General\_message\_OptionalPackageNumber\_51, General\_message\_OptionalPackageNumber\_41, General\_message\_OptionalPackageNumber\_42, General\_message\_OptionalPackageNumber\_44, General\_message\_OptionalPackageNumber\_52, General\_message\_OptionalPackageNumber\_57, General\_message\_OptionalPackageNumber\_58, General\_message\_OptionalPackageNumber\_64, General\_message\_OptionalPackageNumber\_65, General\_message\_OptionalPackageNumber\_66, General\_message\_OptionalPackageNumber\_68, General\_message\_OptionalPackageNumber\_69, General\_message\_OptionalPackageNumber\_70, General\_message\_OptionalPackageNumber\_71, General\_message\_OptionalPackageNumber\_72, General\_message\_OptionalPackageNumber\_76, General\_message\_OptionalPackageNumber\_79, General\_message\_OptionalPackageNumber\_88, General\_message\_OptionalPackageNumber\_131, General\_message\_OptionalPackageNumber\_138, General\_message\_OptionalPackageNumber\_139, General\_message\_OptionalPackageNumber\_140} |  |
| Infill\_MA | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int, PADDING18 : int, Infill\_MA\_OptionalPackets : int} | **Comments:**  Radio Message Number = 37 |
| Infill\_MA\_OptionalPackets | enum {Infill\_MA\_OptionalPackageNumber\_136, Infill\_MA\_OptionalPackageNumber\_12, Infill\_MA\_OptionalPackageNumber\_5, Infill\_MA\_OptionalPackageNumber\_21, Infill\_MA\_OptionalPackageNumber\_27, Infill\_MA\_OptionalPackageNumber\_39, Infill\_MA\_OptionalPackageNumber\_40, Infill\_MA\_OptionalPackageNumber\_41, Infill\_MA\_OptionalPackageNumber\_44, Infill\_MA\_OptionalPackageNumber\_49, Infill\_MA\_OptionalPackageNumber\_51, Infill\_MA\_OptionalPackageNumber\_65, Infill\_MA\_OptionalPackageNumber\_66, Infill\_MA\_OptionalPackageNumber\_68, Infill\_MA\_OptionalPackageNumber\_69, Infill\_MA\_OptionalPackageNumber\_70, Infill\_MA\_OptionalPackageNumber\_71, Infill\_MA\_OptionalPackageNumber\_80, Infill\_MA\_OptionalPackageNumber\_88, Infill\_MA\_OptionalPackageNumber\_138, Infill\_MA\_OptionalPackageNumber\_139} |  |
| Initiation\_of\_a\_communication\_session | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int} | **Comments:**  Radio Message Number = 38 |
| MA\_with\_Shifted\_Location\_Reference | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int, Q\_SCALE : int, D\_REF : int, PADDING17 : int, MA\_with\_Shifted\_Location\_Reference\_OptionalPackets : int} | **Comments:**  Radio Message Number = 33 |
| MA\_with\_Shifted\_Location\_Reference\_OptionalPackets | enum {MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_15, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_21, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_27, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_49, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_80, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_3, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_5, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_39, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_40, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_51, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_41, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_42, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_44, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_45, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_52, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_57, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_58, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_64, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_65, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_66, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_68, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_69, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_70, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_71, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_72, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_76, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_79, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_88, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_131, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_138, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_139, MA\_with\_Shifted\_Location\_Reference\_OptionalPackageNumber\_140} |  |
| Movement\_Authority | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int, PADDING13 : int, Movement\_Authority\_OptionalPackets : int} | **Comments:**  Radio Message Number = 3 |
| Movement\_Authority\_OptionalPackets | enum {Movement\_Authority\_OptionalPackageNumber\_15, Movement\_Authority\_OptionalPackageNumber\_21, Movement\_Authority\_OptionalPackageNumber\_27, Movement\_Authority\_OptionalPackageNumber\_49, Movement\_Authority\_OptionalPackageNumber\_80, Movement\_Authority\_OptionalPackageNumber\_3, Movement\_Authority\_OptionalPackageNumber\_5, Movement\_Authority\_OptionalPackageNumber\_39, Movement\_Authority\_OptionalPackageNumber\_40, Movement\_Authority\_OptionalPackageNumber\_51, Movement\_Authority\_OptionalPackageNumber\_41, Movement\_Authority\_OptionalPackageNumber\_42, Movement\_Authority\_OptionalPackageNumber\_44, Movement\_Authority\_OptionalPackageNumber\_45, Movement\_Authority\_OptionalPackageNumber\_52, Movement\_Authority\_OptionalPackageNumber\_57, Movement\_Authority\_OptionalPackageNumber\_58, Movement\_Authority\_OptionalPackageNumber\_64, Movement\_Authority\_OptionalPackageNumber\_65, Movement\_Authority\_OptionalPackageNumber\_66, Movement\_Authority\_OptionalPackageNumber\_68, Movement\_Authority\_OptionalPackageNumber\_69, Movement\_Authority\_OptionalPackageNumber\_70, Movement\_Authority\_OptionalPackageNumber\_71, Movement\_Authority\_OptionalPackageNumber\_72, Movement\_Authority\_OptionalPackageNumber\_76, Movement\_Authority\_OptionalPackageNumber\_79, Movement\_Authority\_OptionalPackageNumber\_88, Movement\_Authority\_OptionalPackageNumber\_131, Movement\_Authority\_OptionalPackageNumber\_138, Movement\_Authority\_OptionalPackageNumber\_139, Movement\_Authority\_OptionalPackageNumber\_140} |  |
| RBC\_or\_RIU\_System\_Version | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int, M\_VERSION : int} | **Comments:**  Radio Message Number = 32 |
| Recognition\_of\_exit\_from\_TRIP\_mode | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int} | **Comments:**  Radio Message Number = 6 |
| Request\_to\_Shorten\_MA | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int, PADDING14 : int, Request\_to\_Shorten\_MA\_OptionalPackets : int} | **Comments:**  Radio Message Number = 9 |
| Request\_to\_Shorten\_MA\_OptionalPackets | enum {Request\_to\_Shorten\_MA\_OptionalPackageNumber\_15, Request\_to\_Shorten\_MA\_OptionalPackageNumber\_80} |  |
| Revocation\_of\_Emergency\_Stop | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int, NID\_EM : int} | **Comments:**  Radio Message Number = 18 |
| SH\_Authorised | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN0 : real, M\_ACK : int, NID\_LRBG : int, T\_TRAIN1 : real, PADDING16 : int, SH\_Authorised\_OptionalPackets : int} | **Comments:**  Radio Message Number = 28 |
| SH\_Authorised\_OptionalPackets | enum {SH\_Authorised\_OptionalPackageNumber\_3, SH\_Authorised\_OptionalPackageNumber\_44, SH\_Authorised\_OptionalPackageNumber\_49} |  |
| SH\_Refused | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN0 : real, M\_ACK : int, NID\_LRBG : int, T\_TRAIN1 : real} | **Comments:**  Radio Message Number = 27 |
| SoM\_position\_report\_confirmed\_by\_RBC | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int} | **Comments:**  Radio Message Number = 43 |
| SR\_Authorisation | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int, Q\_SCALE : int, D\_SR : int, PADDING12 : int, SR\_Authorisation\_OptionalPackets : int} | **Comments:**  Radio Message Number = 2 |
| SR\_Authorisation\_OptionalPackets | enum {SR\_Authorisation\_OptionalPackageNumber\_63} |  |
| Track\_Ahead\_Free\_Request | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int, Q\_SCALE : int, D\_REF : int, Q\_DIR : int, D\_TAFDISPLAY : int, L\_TAFDISPLAY : int} | **Comments:**  Radio Message Number = 34 |
| Train\_Accepted | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int} | **Comments:**  Radio Message Number = 41 |
| Train\_Rejected | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int} | **Comments:**  Radio Message Number = 40 |
| Unconditional\_Emergency\_Stop | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, M\_ACK : int, NID\_LRBG : int, NID\_EM : int} | **Comments:**  Radio Message Number = 16 |

## Radio\_TrainToTrack Package

### Types

Table 24: Public Types of Radio\_TrainToTrack

| Name | Definition | Comments and Information |
| --- | --- | --- |
| Acknowledgement | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int} | **Comments:**  Radio Message Number = 146 |
| Acknowledgement\_of\_Emergency\_Stop | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, NID\_EM : int, Q\_EMERGENCYSTOP : int, Acknowledgement\_of\_Emergency\_Stop\_OptionalPackets : int} | **Comments:**  Radio Message Number = 147 |
| Acknowledgement\_of\_Emergency\_Stop\_OptionalPackets | enum {Acknowledgement\_of\_Emergency\_Stop\_OptionalPackageNumber\_0, Acknowledgement\_of\_Emergency\_Stop\_OptionalPackageNumber\_1} |  |
| End\_of\_Mission | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, PADDING7 : int, End\_of\_Mission\_OptionalPackets : int} | **Comments:**  Radio Message Number = 150 |
| End\_of\_Mission\_OptionalPackets | enum {End\_of\_Mission\_OptionalPackageNumber\_0, End\_of\_Mission\_OptionalPackageNumber\_1} |  |
| Initiation\_of\_a\_communication\_session | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int} | **Comments:**  Radio Message Number = 155 |
| MA\_Request | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, Q\_MARQSTREASON : int, PADDING2 : int, MA\_Request\_OptionalPackets : int} | **Comments:**  Radio Message Number = 132 |
| MA\_Request\_OptionalPackets | enum {MA\_Request\_OptionalPackageNumber\_0, MA\_Request\_OptionalPackageNumber\_1, MA\_Request\_OptionalPackageNumber\_9} |  |
| No\_compatible\_version\_supported | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int} | **Comments:**  Radio Message Number = 154 |
| Radio\_infill\_request | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, NID\_C : int, NID\_BG : int, Q\_INFILL : int, PADDING8 : int, Radio\_infill\_request\_OptionalPackets : int} | **Comments:**  Radio Message Number = 153 |
| Radio\_infill\_request\_OptionalPackets | enum {Radio\_infill\_request\_OptionalPackageNumber\_0, Radio\_infill\_request\_OptionalPackageNumber\_1} |  |
| Request\_for\_Shunting | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, PADDING1 : int, Request\_for\_Shunting\_OptionalPackets : int} | **Comments:**  Radio Message Number = 130 |
| Request\_for\_Shunting\_OptionalPackets | enum {Request\_for\_Shunting\_OptionalPackageNumber\_0, Request\_for\_Shunting\_OptionalPackageNumber\_1} |  |
| Request\_to\_shorten\_MA\_is\_granted | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, PADDING4 : int, Request\_to\_shorten\_MA\_is\_granted\_OptionalPackets : int} | **Comments:**  Radio Message Number = 137 |
| Request\_to\_shorten\_MA\_is\_granted\_OptionalPackets | enum {Request\_to\_shorten\_MA\_is\_granted\_OptionalPackageNumber\_0, Request\_to\_shorten\_MA\_is\_granted\_OptionalPackageNumber\_1} |  |
| Request\_to\_shorten\_MA\_is\_rejected | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, PADDING5 : int, Request\_to\_shorten\_MA\_is\_rejected\_OptionalPackets : int} | **Comments:**  Radio Message Number = 138 |
| Request\_to\_shorten\_MA\_is\_rejected\_OptionalPackets | enum {Request\_to\_shorten\_MA\_is\_rejected\_OptionalPackageNumber\_0, Request\_to\_shorten\_MA\_is\_rejected\_OptionalPackageNumber\_1} |  |
| Session\_Established | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, PADDING11 : int, Session\_Established\_OptionalPackets : int} | **Comments:**  Radio Message Number = 159 |
| Session\_Established\_OptionalPackets | enum {Session\_Established\_OptionalPackageNumber\_3} |  |
| SoM\_Position\_Report | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, Q\_STATUS : int, PADDING9 : int, SoM\_Position\_Report\_OptionalPackets : int} | **Comments:**  Radio Message Number = 157 |
| SoM\_Position\_Report\_OptionalPackets | enum {SoM\_Position\_Report\_OptionalPackageNumber\_0, SoM\_Position\_Report\_OptionalPackageNumber\_1, SoM\_Position\_Report\_OptionalPackageNumber\_4, SoM\_Position\_Report\_OptionalPackageNumber\_5, SoM\_Position\_Report\_OptionalPackageNumber\_44} |  |
| Termination\_of\_a\_communication\_session | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int} | **Comments:**  Radio Message Number = 156 |
| Text\_message\_acknowledged\_by\_driver | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, NID\_TEXTMESSAGE : int, PADDING10 : int, Text\_message\_acknowledged\_by\_driver\_OptionalPackets : int} | **Comments:**  Radio Message Number = 158 |
| Text\_message\_acknowledged\_by\_driver\_OptionalPackets | enum {Text\_message\_acknowledged\_by\_driver\_OptionalPackageNumber\_0, Text\_message\_acknowledged\_by\_driver\_OptionalPackageNumber\_1} |  |
| Track\_Ahead\_Free\_Granted | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, PADDING6 : int, Track\_Ahead\_Free\_Granted\_OptionalPackets : int} | **Comments:**  Radio Message Number = 149 |
| Track\_Ahead\_Free\_Granted\_OptionalPackets | enum {Track\_Ahead\_Free\_Granted\_OptionalPackageNumber\_0, Track\_Ahead\_Free\_Granted\_OptionalPackageNumber\_1} |  |
| Train\_Position\_Report | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, PADDING3 : int, Train\_Position\_Report\_OptionalPackets : int} | **Comments:**  Radio Message Number = 136 |
| Train\_Position\_Report\_OptionalPackets | enum {Train\_Position\_Report\_OptionalPackageNumber\_0, Train\_Position\_Report\_OptionalPackageNumber\_1, Train\_Position\_Report\_OptionalPackageNumber\_4, Train\_Position\_Report\_OptionalPackageNumber\_5, Train\_Position\_Report\_OptionalPackageNumber\_44} |  |
| Validated\_Train\_Data | {NID\_MESSAGE : int, L\_MESSAGE : int, T\_TRAIN : real, NID\_ENGINE : int, PADDING0 : int, Validated\_Train\_Data\_OptionalPackets : int} | **Comments:**  Radio Message Number = 129 |
| Validated\_Train\_Data\_OptionalPackets | enum {Validated\_Train\_Data\_OptionalPackageNumber\_0, Validated\_Train\_Data\_OptionalPackageNumber\_1, Validated\_Train\_Data\_OptionalPackageNumber\_11} |  |

# Project Library: DetermineTrainLocationTypes

## Root Elements

### Types

Table 25: Public Types of DetermineTrainLocationTypes

| Name | Definition | Comments and Information |
| --- | --- | --- |
| AssignmentOfACoordinateSystem\_Type | {valid : bool, m\_ack : M\_ACK, nid\_LRBG : NID\_LRBG, q\_orientation : Q\_ORIENTATION} | **Comments:**  8.7.22: Message 45 from RBC to train **m\_ack Comments:**  7.5.1.59: Indicates whether the telegram must be acknowledged or not **nid\_LRBG Comments:**  7.5.1.90: Identity of last relevant balise group **q\_orientation Comments:**  7.5.1.125:  The co-ordinate system is assigned by the RBC to a balise group reported by the on-board equipment as LRBG.  The information reverse/nominal (i.e., the assigned co-ordinate system) is given in relation to the direction in which the balise has been passed when reading it. |
| BaliseGroup\_Type | {valid : bool, nominalLocation : Location\_Type, nid\_c : NID\_C, nid\_bg : NID\_BG, isLinked : Q\_LINK, bg : LinkingElement\_Type} | **nominalLocation Comments:**  Absolute nominal location of the balise group from system start **nid\_c Comments:**  Country or region **nid\_bg Comments:**  Identity of the balise group **isLinked Comments:**  Designates a balise group as linked **bg Comments:**  Balise group information |
| BaliseGroupPassing\_Type | {valid : bool, nid\_c : NID\_C, nid\_bg : NID\_BG, isLinked : Q\_LINK, trainOrientationToBG : Q\_DIRLRBG, trainRunningDirectionToBG : Q\_DIRTRAIN} | **Comments:**  Info from passing a balise group **nid\_c Comments:**  Country or region **nid\_bg Comments:**  Identity of the balise group **isLinked Comments:**  Designates a balise group as linked **trainOrientationToBG Comments:**  Orientation of the train in relation to the direction of the BG: determined by balise receiver **trainRunningDirectionToBG Comments:**  Direction of train movement in relation to the LRBG orientation: determined by balise receiver |
| LinkingElement\_Type | {valid : bool, nid\_LRBG : NID\_LRBG, nid\_packet : NID\_PACKET, q\_dir : Q\_DIR, q\_scale : Q\_SCALE, d\_link : D\_LINK, q\_newcountry : Q\_NEWCOUNTRY, nid\_c : NID\_C, nid\_bg : NID\_BG, q\_linkorientation : Q\_LINKORIENTATION, q\_linkreaction : Q\_LINKREACTION, q\_locacc : Q\_LOCACC} | **Comments:**  7.4.2.2: Single, but complete, element from LinkingPacket\_Type **valid Comments:**  This element has valid data **nid\_LRBG Comments:**  8.4.4.61: ID of the reference LRBG **nid\_packet Comments:**  Packet identifier: probably not needed here: Packet 5 = constant **q\_dir Comments:**  Validity direction of transmitted data with reference to directionality of the balise group sending the information or to directionality of the LRBG **q\_scale Comments:**  7.5.1.129: Qualifier for the distance scale: 10 cm, 1 m, 10 m **d\_link Comments:**  7.5.1.10: Incremental linking distance to next linked balise group **q\_newcountry Comments:**  7.5.1.121: New Country Qualifier **nid\_c Comments:**  Identity number of the country or region **nid\_bg Comments:**  Identity number of the balise group **q\_linkorientation Comments:**  7.5.1.116: Qualifier for the direction of the linked balise group: Indicates whether the linked balise group will be overpassed by the train in nominal or reverse direction. **q\_linkreaction Comments:**  7.5.1.117: Qualifier for the reaction to be performed if a linking or a balise group message consistency problem occurs with the balise group linked to **q\_locacc Comments:**  7.5.1.115: defines the absolute value of the accuracy of the Balise location (max +/- 63 m) |
| LinkingElements\_Type | LinkingElement\_Type ^cMaxNoOfLinkingElements | **Comments:**  Array of LinkingElements |
| LinkingPacket\_Type | {valid : bool, nid\_LRBG : NID\_LRBG, link : TrackToTrain::Linking} | **Comments:**  Subset 026-7 (7.4.2.2) **valid Comments:**  valid flag **nid\_LRBG Comments:**  8.4.4.61: ID of the reference LRBG; 8.4.2.1: NID\_BG **link Comments:**  Packet Number 5 as defined in Subset 026-7 (7.4.2.2) |
| ListOfLRBGs\_Type | BaliseGroup\_Type ^cMaxNoOfLRBGs | **Comments:**  3.6.1.3, 3.6.2.2.2 c) : List of balise groups, which may alternatively be used by trackside for referencing location dependent information |
| Location\_Type | int | **Comments:**  Generic for all length, distance and location calculation: in cm |
| Obu\_Status\_Type | {actTime : Time\_Type, mode : M\_MODE, level : M\_LEVEL} | **Comments:**  General OBU status **actTime Comments:**  Actual OBU system time |
| OdometryData\_Type | {valid : bool, timeStamp : Time\_Type, estimatedDistance : Location\_Type, overreadingDistance : Location\_Type, underreadingDistance : Location\_Type, speed : Speed\_Type} | **Comments:**  Information received from the Odometry **timeStamp Comments:**  TimeStamp of the odometry information **estimatedDistance Comments:**  3.6.4.4 a): Distance as measured by the Odometry **overreadingDistance Comments:**  3.6.4.4 b)  **underreadingDistance Comments:**  3.6.4.4 c) **speed Comments:**  Actual train speed. >0: forward. // <0: backward to train orientation |
| PositionReport\_Type | {valid : bool, report : TrainToTrack::Position\_Report} | **Comments:**  7.4.3.1: This packet is used to report the train position and speed as well as some additional information  **valid Comments:**  Valid flag **report Comments:**  7.4.3.1 |
| PositionReportBasedOn2BaliseGroups\_Type | {valid : bool, report : TrainToTrack::Position\_Report\_based\_on\_two\_balise\_groups} | **Comments:**  7.4.3.2: This packet is used in case of single balise groups if the orientation of the LRBG is unknown but the on-board equipment is able to report a second balise group (the one detected before) to give a direction reference for the directional information in the position report. **report Comments:**  7.4.3.2 |
| PositionReportParameters\_Type | {valid : bool, parameters : TrackToTrain::Position\_Report\_Parameters} | **Comments:**  7.4.2.15 : parameters telling when and how often the position has to be reported |
| ProfileDataElement\_Type | {valid : bool, nominalLocation : Location\_Type, profileDataValue : ProfileDataValue\_Type} | **Comments:**  Element of the profile with all data elements at the same given nominal location **profileDataValue Comments:**  Profile data values |
| ProfileDataValue\_Type | {bg : BaliseGroup\_Type, furtherMoreElements\_tbd : int} | **Comments:**  3.6.3.2.1: Container for different types of profile data **bg Comments:**  Balise group profile data value **furtherMoreElements\_tbd Comments:**  Placeholder for other profile elements like speed restrictions ... ; intended to be detailed and extended later |
| ProfileElements\_Type | ProfileDataElement\_Type ^cMaxNoOfProfileElements | **Comments:**  Storage for all relevant profile data in the order of increasing nominal location |
| ReceivedProfileData\_Type | {ref\_LRBG : BaliseGroup\_Type, data : ReceivedProfileDataItems\_Type} | **Comments:**  3.6.3.2.1: Profile data received from balise, loop, RBC **ref\_LRBG Comments:**  Reference LRBG |
| ReceivedProfileDataItem\_Type | {valid : bool, distance : Location\_Type, length : Location\_Type, value : ProfileDataValue\_Type} | **Comments:**  3.6.3.2.1: Profile data item received from balise, loop, RBC **length Comments:**  For non-continuous profile data **value Comments:**  Profile value |
| ReceivedProfileDataItems\_Type | ReceivedProfileDataItem\_Type ^cMaxNoOfProfileElements |  |
| Speed\_Type | int | **Comments:**  General speed type: in km/h. |
| Time\_Type | int | **Comments:**  General system time type. Used for all time calculations |
| TrainPosition\_Type | {valid : bool, trainPositionIsUnknown : bool, noCoordinateSystemHasBeenAssigned : bool, estimatedFrontEndPosition : Location\_Type, minSafeFrontEndPosition : Location\_Type, maxSafeFrontEndPostion : Location\_Type, nid\_LRBG : NID\_BG, nid\_PrvLRB : NID\_PRVLRBG, nominalOrReverseToLRBG : Q\_DLRBG, trainOrientationToLRBG : Q\_DIRLRBG, trainRunningDirectionToLRBG : Q\_DIRTRAIN, speed : Speed\_Type} | **Comments:**  3.6.1.3 **trainPositionIsUnknown Comments:**  3.6.3.1.3.1 **noCoordinateSystemHasBeenAssigned Comments:**  3.6.3.1.4 **estimatedFrontEndPosition Comments:**  3.6.4.4 a): Absolute train front end position since system start **minSafeFrontEndPosition Comments:**  3.6.4.4 c) :Minimum safe front end position **maxSafeFrontEndPostion Comments:**  3.6.4.4.b) :Maximum safe front end position **nid\_LRBG Comments:**  Identity of last relevant balise group  **nid\_PrvLRB Comments:**  Identity of previous LRBG (7.4.3.2, 7.5.1.94), for position report based on 2 balise groups **nominalOrReverseToLRBG Comments:**  7.5.1.106: Q\_DLRBG: Qualifier telling on which side of the LRBG the estimated front end is **trainOrientationToLRBG Comments:**  3.6.1.3: Orientation of the train in relation to the direction of the LRBG **trainRunningDirectionToLRBG Comments:**  3.6.1.3: Direction of train movement in relation to the LRBG orientation **speed Comments:**  Actual train speed |

### Constants

Table 26: Public Constants of DetermineTrainLocationTypes

| Name | Type | Value | Comments and Information |
| --- | --- | --- | --- |
| cBG\_invalid | BaliseGroup\_Type | {valid : false, nominalLocation : 0, nid\_c : 0, nid\_bg : 0, isLinked : Q\_LINK\_Unlinked, bg : {valid : false, nid\_LRBG : 0, nid\_packet : 0, q\_dir : Q\_DIR\_Reverse, q\_scale : Q\_SCALE\_10\_cm\_scale, d\_link : 0, q\_newcountry : Q\_NEWCOUNTRY\_Same\_country\_\_or\_\_railway\_administration\_no\_NID\_C\_follows, nid\_c : 0, nid\_bg : 0, q\_linkorientation : Q\_LINKORIENTATION\_The\_balise\_group\_is\_seen\_by\_the\_train\_in\_reverse\_direction, q\_linkreaction : Q\_LINKREACTION\_Train\_trip, q\_locacc : 0}} |  |
| cLinkingElements\_invalid | LinkingElements\_Type | [{valid : false, nid\_LRBG : 0, nid\_packet : 0, q\_dir : Q\_DIR\_Reverse, q\_scale : Q\_SCALE\_10\_cm\_scale, d\_link : 0, q\_newcountry : Q\_NEWCOUNTRY\_Same\_country\_\_or\_\_railway\_administration\_no\_NID\_C\_follows, nid\_c : 0, nid\_bg : 0, q\_linkorientation : Q\_LINKORIENTATION\_The\_balise\_group\_is\_seen\_by\_the\_train\_in\_reverse\_direction, q\_linkreaction : Q\_LINKREACTION\_Train\_trip, q\_locacc : 0}, {valid : false, nid\_LRBG : 0, nid\_packet : 0, q\_dir : Q\_DIR\_Reverse, q\_scale : Q\_SCALE\_10\_cm\_scale, d\_link : 0, q\_newcountry : Q\_NEWCOUNTRY\_Same\_country\_\_or\_\_railway\_administration\_no\_NID\_C\_follows, nid\_c : 0, nid\_bg : 0, q\_linkorientation : Q\_LINKORIENTATION\_The\_balise\_group\_is\_seen\_by\_the\_train\_in\_reverse\_direction, q\_linkreaction : Q\_LINKREACTION\_Train\_trip, q\_locacc : 0}, {valid : false, nid\_LRBG : 0, nid\_packet : 0, q\_dir : Q\_DIR\_Reverse, q\_scale : 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| cMaxNoOfLinkingElements | int | 80 | **Comments:**  Max. number of linking elements in a list (arbitrarily value) |
| cMaxNoOfLRBGs | int | 8 | **Comments:**  3.6.2.2.2 c): Max number of LRBGonb last reported to the RBC |
| cMaxNoOfProfileElements | int | 100 | **Comments:**  Max. number of profile elements in the profile storage |
| cPositionReport\_invalid | PositionReport\_Type | {valid : false, report : {NID\_PACKET : 0, L\_PACKET : 0, Q\_SCALE : 0, NID\_LRBG : 0, D\_LRBG : 0, Q\_DIRLRBG : 0, Q\_DLRBG : 0, L\_DOUBTOVER : 0, L\_DOUBTUNDER : 0, Q\_LENGTH : 0, L\_TRAININT : 0, V\_TRAIN : 0, Q\_DIRTRAIN : 0, M\_MODE : 0, M\_LEVEL : 0, NID\_NTC : 0}} |  |
| cPositionReportBasedOn2Bg\_invalid | PositionReportBasedOn2BaliseGroups\_Type | {valid : false, report : {NID\_PACKET : 0, L\_PACKET : 0, Q\_SCALE : 0, NID\_LRBG : 0, NID\_PRVLRBG : 0, D\_LRBG : 0, Q\_DIRLRBG : 0, Q\_DLRBG : 0, L\_DOUBTOVER : 0, L\_DOUBTUNDER : 0, Q\_LENGTH : 0, L\_TRAININT : 0, V\_TRAIN : 0, Q\_DIRTRAIN : 0, M\_MODE : 0, M\_LEVEL : 0, NID\_NTC : 0}} |  |
| cTrainPosition\_invald | TrainPosition\_Type | {valid : false, trainPositionIsUnknown : false, noCoordinateSystemHasBeenAssigned : false, estimatedFrontEndPosition : 0, minSafeFrontEndPosition : 0, maxSafeFrontEndPostion : 0, nid\_LRBG : 0, nid\_PrvLRB : 0, nominalOrReverseToLRBG : Q\_DLRBG\_Reverse, trainOrientationToLRBG : Q\_DIRLRBG\_Reverse, trainRunningDirectionToLRBG : Q\_DIRTRAIN\_Reverse, speed : 0} |  |

End of document.