Work-Package 5: “Demonstrator”

M5.2: Data for testing

Description of scenarios use to test openETCS EVC

Alexis Julin, Didier Weckmann, Matthieu Poirot

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M5.2: Data for testing
Description of scenarios use to test openETCS EVC

Document approbation

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<th>Lead author:</th>
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Description of work

Prepared for OpenETCS Project
Abstract: This document presents the use cases for testing openETCS EVC.
# Modification History

<table>
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<th>Version</th>
<th>Section</th>
<th>Modification / Description</th>
<th>Author</th>
</tr>
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<tr>
<td>0.1</td>
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1 Introduction

This document describes use cases defined in OpenETCS project in test environment scenario format.

2 Scenario 1: Use case 1, 2, 3, 4

```plaintext
# use case 1-2-3-4

[SCENARIO]
DRIVER_ACTION = MainSwitchOn
WAIT_STATUS = MODE_SB, 2, FATAL
DRIVER_ACTION = OpenCabinA, 1
DRIVER_ACTION = DriverID, 1
WAIT_RADIO_SENT = RIM_InitCommSession, 10, FATAL
RBC_RADIO = RBC_ConfigurationDetermination
WAIT_RADIO_SENT = RIM_SessionEstablished, 5, FATAL

# Position reported by onboard is valid (SRS 5.4.4.D32, 5.4.4.A33)
WAIT_RADIO_SENT = RIM_SoM.PR_Valid, 5, FATAL
WAIT_TIME = 2
DRIVER_ACTION = TrainData+TRN

WAIT_RADIO_SENT = RIM_ValidatedTrainData_PosValid, 5, FATAL
RBC_RADIO = RBC_AckTrainData_Valid

WAIT_TIME = 1
DRIVER_ACTION = StartOfMission
WAIT_TIME = 2
RBC_RADIO = RBC_MA

DRIVER_ACTION = DirectionNominal
MOVE_TRAIN

WAIT_LOCATION = 30
WAIT_RADIO_SENT = RIM_PositionReport_BG_245, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_245

WAIT_LOCATION = 135
WAIT_RADIO_SENT = RIM_PositionReport_BG_247, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_247

WAIT_LOCATION = 440
WAIT_RADIO_SENT = RIM_PositionReport_BG_248, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_248

WAIT_LOCATION = 492
WAIT_RADIO_SENT = RIM_PositionReport_BG_249, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_249

WAIT_LOCATION = 980
```

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WAIT_RADIO_SENT = RIM_PositionReport_BG_250, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_250

WAIT_LOCATION = 1038
WAIT_RADIO_SENT = RIM_PositionReport_BG_251, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_251

WAIT_LOCATION = 1464
WAIT_RADIO_SENT = RIM_PositionReport_BG_252, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_252

WAIT_LOCATION = 1664
WAIT_RADIO_SENT = RIM_PositionReport_BG_253, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_253
RBC_RADIO = RBC_MA_2

WAIT_LOCATION = 1900
WAIT_RADIO_SENT = RIM_PositionReport_BG_255, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_255

WAIT_LOCATION = 1960
WAIT_RADIO_SENT = RIM_PositionReport_BG_257, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_257

WAIT_LOCATION = 2312
WAIT_RADIO_SENT = RIM_PositionReport_BG_258, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_258

WAIT_LOCATION = 2367
WAIT_RADIO_SENT = RIM_PositionReport_BG_259, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_259

WAIT_LOCATION = 2815
WAIT_RADIO_SENT = RIM_PositionReport_BG_260, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_260

WAIT_TIME = 1
RBC_RADIO = RBC_CES, SRS="class1,v1.0"
WAIT_RADIO_SENT = RIM_ACK_CES, 5, FATAL

WAIT_STANDSTILL

# --------------------- RBC telegrams ----------------------
[RBC_ConfigurationDetermination]
NID_MESSAGE = 32
NID_LRBG = 16777215
M_VERSION = 10000b

[RBC_AckTrainData_Valid]
NID_MESSAGE = 8

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NID_LRBG = 6979828

[RBC_MA]
NID_MESSAGE = 3
NID_LRBG = 6979828
NID_PACKET = 15
V_LOA = 28
L_ENDSECTION = 1923
NID_PACKET = 27
V_STATIC = 16
N_ITER = 0
N_ITER = 1
D_STATIC = 300
V_STATIC = 50
NID_PACKET = 21

[RBC_GENERAL_MESSAGE_BG_245]
NID_MESSAGE = 24
NID_LRBG = 6979829

[RBC_GENERAL_MESSAGE_BG_247]
NID_MESSAGE = 24
NID_LRBG = 6979831

[RBC_GENERAL_MESSAGE_BG_248]
NID_MESSAGE = 24
NID_LRBG = 6979832

[RBC_GENERAL_MESSAGE_BG_249]
NID_MESSAGE = 24
NID_LRBG = 6979833

[RBC_GENERAL_MESSAGE_BG_250]
NID_MESSAGE = 24
NID_LRBG = 6979834

[RBC_GENERAL_MESSAGE_BG_251]
NID_MESSAGE = 24
NID_LRBG = 6979835

[RBC_GENERAL_MESSAGE_BG_252]
NID_MESSAGE = 24
NID_LRBG = 6979835

[RBC_GENERAL_MESSAGE_BG_253]
NID_MESSAGE = 24
NID_LRBG = 6979837

[RBC_MA_2]
NID_MESSAGE = 3
NID_LRBG = 6979837

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NID_PACKET  = 15
Q_DIR        = 0
V_LOA        = 28
L_ENDSECTION= 3587
NID_PACKET  = 27
Q_DIR        = 0
V_STATIC     = 28
N_ITER       = 0
N_ITER       = 0
NID_PACKET  = 21
Q_DIR        = 0

[RBC_GENERAL_MESSAGE_BG_255]
NID_MESSAGE  = 24
NID_LRBG     = 6979839

[RBC_GENERAL_MESSAGE_BG_257]
NID_MESSAGE  = 24
NID_LRBG     = 6979841

[RBC_GENERAL_MESSAGE_BG_258]
NID_MESSAGE  = 24
NID_LRBG     = 6979842

[RBC_GENERAL_MESSAGE_BG_259]
NID_MESSAGE  = 24
NID_LRBG     = 6979843

[RBC_GENERAL_MESSAGE_BG_260]
NID_MESSAGE  = 24
NID_LRBG     = 6979844

[RBC_CES]
NID_MESSAGE  = 15
#M_ACK       = 1
NID_LRBG     = 6979844
NID_EM       = 1
Q_DIR        = 0
D_EMERGENCYSTOP  = 300

# -------------------------------------- RIM telegrams --------------------------------------
[RIM_InitCommSession]
NID_MESSAGE  = 155

[RIM_SessionEstablished]
NID_MESSAGE  = 159

[RIM_SoM_PR_Valid]
NID_MESSAGE  = 157
#Q_STATUS    = 1
#NID_PACKET  = 0

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#NID_LRBG = 1
#D_LRBG = 50

[RIM_ValidatedTrainData_PosValid]
NID_MESSAGE = 129
NID_PACKET = 0
#NID_LRBG = 1
#D_LRBG = 50
NID_PACKET = 11

[RIM_PositionReport_BG_245]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979829

[RIM_PositionReport_BG_247]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979831

[RIM_PositionReport_BG_248]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979832

[RIM_PositionReport_BG_249]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979833

[RIM_PositionReport_BG_250]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979834

[RIM_PositionReport_BG_251]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979835

[RIM_PositionReport_BG_252]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979835
M_ERROR = 2

[RIM_PositionReport_BG_253]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979837
[RIM_PositionReport_BG_255]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979839

[RIM_PositionReport_BG_257]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979841

[RIM_PositionReport_BG_258]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979842

[RIM_PositionReport_BG_259]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979843

[RIM_PositionReport_BG_260]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979844

[RIM_ACK_CES]
NID_MESSAGE = 147
NID_EM = 1
Q_EMERGENCYSTOP = 0
NID_PACKET = 0
NID_LRBG = 6979844

# -------------------------- Balises --------------------------

[BaliseTrackside]
30 = BG_245_0
35 = BG_245_1

135 = BG_247_0
140 = BG_247_1

440 = BG_248_0
445 = BG_248_1

492 = BG_249_0
497 = BG_249_1

980 = BG_250_1
985 = BG_250_0

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1038 = BG_251_0
1042 = BG_251_1

1464 = BG_252_1
1469 = BG_252_0

1664 = BG_253_1
1669 = BG_253_0

1900 = BG_255_0
1905 = BG_255_1

1955 = BG_257_0
1960 = BG_257_1

2312 = BG_258_1
2316 = BG_258_0

2367 = BG_259_1
2372 = BG_259_0

2815 = BG_260_1
2820 = BG_260_0

[BG_245_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 245
Q_LINK = 1
NID_PACKET = 255

[BG_245_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C = 426
NID_BG = 245
Q_LINK = 1
NID_PACKET = 255

[BG_247_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 247

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Q_LINK = 1
NID_PACKET = 255

[BG_247_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C = 426
NID_BG = 247
Q_LINK = 1
NID_PACKET = 255

[BG_248_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 248
Q_LINK = 1
NID_PACKET = 255

[BG_248_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C = 426
NID_BG = 248
Q_LINK = 1
NID_PACKET = 255

[BG_249_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 249
Q_LINK = 1
NID_PACKET = 137
Q_DIR = 1
Q_SRSTOP = 0
NID_PACKET = 255

[BG_249_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C    = 426
NID_BG    = 249
Q_LINK    = 1
NID_PACKET = 137
Q_DIR    = 1
Q_SRSTOP = 0
NID_PACKET = 255

[BG_250_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C    = 426
NID_BG    = 250
Q_LINK    = 1
NID_PACKET = 255

[BG_250_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C    = 426
NID_BG    = 250
Q_LINK    = 1
NID_PACKET = 255

[BG_251_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C    = 426
NID_BG    = 251
Q_LINK    = 1
NID_PACKET = 255

[BG_251_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C    = 426
NID_BG    = 251
Q_LINK    = 1
NID_PACKET = 255

[BG_252_1]
N_PIG = 1
N_TOTAL = 1
[BG_253_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 253
Q_LINK = 1
NID_PACKET = 255

[BG_255_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 255
Q_LINK = 1
NID_PACKET = 255

[BG_255_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C = 426
NID_BG = 255
Q_LINK = 1
NID_PACKET = 255

[BG_257_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 257
Q_LINK = 1
NID_PACKET = 255

[BG_257_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C = 426
NID_BG = 257
Q_LINK = 1
NID_PACKET = 255
[BG_258_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C = 426
NID_BG = 258
Q_LINK = 1
NID_PACKET = 255

[BG_258_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 258
Q_LINK = 1
NID_PACKET = 255

[BG_259_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C = 426
NID_BG = 259
Q_LINK = 1
NID_PACKET = 255

[BG_259_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 259
Q_LINK = 1
NID_PACKET = 255

[BG_260_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 0
M_MCOUNT = 255
NID_C = 426
NID_BG = 260
Q_LINK = 1
NID_PACKET = 72
Q_DIR = 1
Q_TEXTCLASS = 0
D_TEXTDISPLAY = 1
M_MODETEXTDISPLAY = 15
M_LEVELTEXTDISPLAY = 3
L_TEXTDISPLAY = 1729
T_TEXTDISPLAY = 1023
M_MODETEXTDISPLAY = 15
M_LEVELTEXTDISPLAY = 5
Q_TEXTCONFIRM = 0
L_TEXT = Let op: L/H sein$
NID_PACKET = 255

[BG_260_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 0
M_MCOUNT = 255
NID_C = 426
NID_BG = 260
Q_LINK = 1
NID_PACKET = 72
Q_DIR = 0
Q_TEXTCLASS = 1
D_TEXTDISPLAY = 1
M_MODETEXTDISPLAY = 15
M_LEVELTEXTDISPLAY = 3
L_TEXTDISPLAY = 1729
T_TEXTDISPLAY = 1023
M_MODETEXTDISPLAY = 15
M_LEVELTEXTDISPLAY = 5
Q_TEXTCONFIRM = 0
L_TEXT = Let op: L/H sein$
NID_PACKET = 255

# ------------------------ Speed Profile ----------------------

[SpeedProfile]
0 = 0
50 = 40
120 = 40
150 = 40
1600 = 40
1630 = 20
1750 = 40
2050 = 40
3000 = 40
3200 = 40
3250 = 0

# ------------------------ configuration ----------------------

[Config_TrainData]

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ETCS_ID = 4554
RADIO_COMAVAILABLE = 1
ETCS_PHONE1 = 1234567890123456
ETCS_PHONE2 = 6543210987654321
BALISEANTENNA_OFFSET = 10

[Config_EVCInit]
NETWORK_ID = 0FFFFF
LINE_LEVEL = 2
RBC_ID = 1
RBC_PHONE = 0031840880150FFF
COUNTRY_ID = 426
GROUP_ID = 244
DISTANCE = 139
DIRECTION = NOMINAL
VALIDITY = VALID
EVC_CONFIG = CFG_USE_JRU

[Config_SRSNationalDefaults]
COUNTRY_ID = 426
# Q_NVDRIVER_ADHES (0 or 1)
DRIVER_ADHESION = 1

3 Scenario 2 : Use case 5, 6, 7, 8

# STM -> Level 2 transition

[SCENARIO]

DRIVER_ACTION = MainSwitchOn
WAIT_STATUS = MODE_SB, 2, FATAL
DRIVER_ACTION = OpenCabinA, 2
DRIVER_ACTION = DriverID, 1
DRIVER_ACTION = EnterLevel, 1
DRIVER_ACTION = LevelSTM, 253, 1
DRIVER_ACTION = TrainData+TRN, 1
DRIVER_ACTION = StartOfMission, 1
WAIT_SYMBOL = MO20, C1, ACK, 2, FATAL
DRIVER_ACTION = AckModeOrLevel, 1
WAIT_STATUS = LEVELSTM, MODE_SN, EB_OFF, SB_OFF, 5, FATAL
DRIVER_ACTION = DirectionNominal
MOVE_TRAIN

WAIT_LOCATION = 50
WAIT_RADIO_SENT = RIM_InitCommSession,5, FATAL
RBC_RADIO = RBC_ConfigurationDetermination
WAIT_RADIO_SENT = RIM_SessionEstablished,5, FATAL
WAIT_RADIO_SENT = RIM_ValidatedTrainData, 5, FATAL
RBC_RADIO = RBC_AckTrainData

WAIT_LOCATION = 800
DRIVER_ACTION = AckModeOrLevel, 1
WAIT_RADIO_SENT = RIM_PositionReport_BG_171, 5, FATAL
RBC_RADIO = RBC_MA

WAIT_LOCATION = 890
WAIT_RADIO_SENT = RIM_PositionReport_BG_173, 5, FATAL

WAIT_LOCATION = 1090
WAIT_RADIO_SENT = RIM_PositionReport_BG_172, 5, FATAL

WAIT_LOCATION = 1753
WAIT_RADIO_SENT = RIM_PositionReport_BG_166, 5, FATAL
RBC_RADIO = RBC_GENERAL_MESSAGE_BG_166
WAIT_TIME = 1
RBC_RADIO = RBC_MA_2

WAIT_STANDSTILL

# ------------------------ RIM telegrams ------------------------
[RIM_InitCommSession]
NID_MESSAGE = 155

[RIM_SessionEstablished]
NID_MESSAGE = 159

[RIM_Acknowledgement]
NID_MESSAGE = 146

[RIM_ValidatedTrainData]
NID_MESSAGE = 129
NID_PACKET = 0
NID_LRBG = 6979752
NID_PACKET = 11

[RIM_PositionReport]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979752

[RIM_PositionReport_BG_171]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979755

[RIM_PositionReport_BG_173]
NID_MESSAGE = 136

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NID_PACKET = 0
NID_LRBG = 6979757

[RIM_PositionReport_BG_172]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979756

[RIM_PositionReport_BG_166]
NID_MESSAGE = 136
NID_PACKET = 0
NID_LRBG = 6979750

# --------------------- RBC telegrams -------------------------

[RBC_ConfigurationDetermination]
NID_MESSAGE = 32
NID_LRBG = 16777215
M_VERSION = 10000b

[RBC_AckTrainData]
NID_MESSAGE = 8
M_ACK = 0
NID_LRBG = 6979752

[RBC_MA]
NID_MESSAGE = 3
NID_LRBG = 6979755
NID_PACKET = 15
Q_DIR = 1
V_LOA = 28
L_ENDSECTION = 1580
NID_PACKET = 27
Q_DIR = 1
V_STATIC = 26
N_ITER = 0
N_ITER = 1
D_STATIC = 767
V_STATIC = 16
NID_PACKET = 21

[RBC.General_Message_BG_166]
NID_MESSAGE = 24
NID_LRBG = 6979750

[RBC_MA_2]
NID_MESSAGE = 3
NID_LRBG = 6979750
NID_PACKET = 15
Q_DIR = 0

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V_LOA = 28  
L_ENDSECTION= 1717  
NID_PACKET = 27  
Q_DIR = 0  
V_STATIC = 16  
NID_PACKET = 21

# -------------------------- Balises --------------------------

[BaliseTrackside]
50 = BG_168_0  
55 = BG_168_1

800 = BG_171_0  
805 = BG_171_1

860 = BG_167_0  
865 = BG_167_1

891 = BG_173_1  
897 = BG_173_0

1090 = BG_172_1  
1095 = BG_172_0

1753 = BG_166_1  
1758 = BG_166_0

[BG_168_0]
N_PIG = 0  
N_TOTAL = 1  
M_DUP = 1  
M_MCOUNT = 255  
NID_C = 426  
NID_BG = 168  
Q_LINK = 1  
NID_PACKET= 42  
Q_DIR = 1  
Q_RBC = 1  
NID_C = 426  
NID_RBC = 1  
Q_SLEEPESESSION= 0  
NID_PACKET= 3  
NID_PACKET= 46  
Q_DIR = 1  
M_LEVELTR = 1  
NID_NTC = 253  
N_ITER = 1  
M_LEVELTR = 3  
NID_PACKET= 46

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Q_DIR = 0
M_LEVELTR = 1
NID_NTC = 253
NID_PACKET = 41
Q_DIR = 1
D_LEVELTR = 790
M_LEVELTR = 3
L_ACKLEVELTR = 65
NID_PACKET = 255

[BG_168_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C = 426
NID_BG = 168
Q_LINK = 1
NID_PACKET = 42
Q_DIR = 1
Q_RBC = 1
NID_C = 426
NID_RBC = 1
Q_SLEEPSESSION = 0
NID_PACKET = 3
NID_PACKET = 46
Q_DIR = 1
M_LEVELTR = 1
NID_NTC = 253
N_ITER = 1
M_LEVELTR = 3
NID_PACKET = 46
Q_DIR = 0
M_LEVELTR = 1
NID_NTC = 253
NID_PACKET = 41
Q_DIR = 1
D_LEVELTR = 790
M_LEVELTR = 3
L_ACKLEVELTR = 65
NID_PACKET = 255

[BG_171_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 171
Q_LINK = 1
NID_PACKET = 255
[BG_171_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C = 426
NID_BG = 171
Q_LINK = 1
NID_PACKET = 255

[BG_167_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 167
Q_LINK = 1
NID_PACKET = 42
Q_DIR = 1
Q_RBC = 1
NID_C = 426
NID_RBC = 1
Q_SLEEPSESSION = 0
NID_PACKET = 41
Q_DIR = 0
D_LEVELTR = 15
M_LEVELTR = 1
NID_NTC = 253
L_ACKLEVELTR = 181
NID_PACKET = 46
Q_DIR = 1
M_LEVELTR = 3
N_ITER = 1
M_LEVELTR = 1
NID_NTC = 253
NID_PACKET = 255

[BG_167_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C = 426
NID_BG = 167
Q_LINK = 1
NID_PACKET = 42
Q_DIR = 1
Q_RBC = 1

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NID_C = 426
NID_RBC = 1
Q_SLEEPSESSION= 0
NID_PACKET= 41
Q_DIR = 0
D_LEVELTR = 15
M_LEVELTR = 1
NID_NTC = 253
L_ACKLEVELTR= 181
NID_PACKET= 46
Q_DIR = 1
M_LEVELTR = 3
N_ITER = 1
M_LEVELTR = 1
NID_NTC = 253
NID_PACKET= 255

[BG_173_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C = 426
NID_BG = 173
Q_LINK = 1
NID_PACKET= 255

[BG_173_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 173
Q_LINK = 1
NID_PACKET= 255

[BG_172_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 2
M_MCOUNT = 255
NID_C = 426
NID_BG = 172
Q_LINK = 1
NID_PACKET= 255

[BG_172_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 1
M_MCOUNT = 255
NID_C = 426
NID_BG = 172
Q_LINK = 1
NID_PACKET = 255

[BG_166_1]
N_PIG = 1
N_TOTAL = 1
M_DUP = 0
M_MCOUNT = 255
NID_C = 426
NID_BG = 166
Q_LINK = 1
NID_PACKET = 255

[BG_166_0]
N_PIG = 0
N_TOTAL = 1
M_DUP = 0
M_MCOUNT = 255
NID_C = 426
NID_BG = 166
Q_LINK = 1
NID_PACKET = 41
Q_DIR = 1
D_LEVELTR = 916
M_LEVELTR = 1
NID_NTC = 253
L_ACKLEVELTR = 181
NID_PACKET = 255

# ------------------------ Speed Profile --------------------------

[SpeedProfile]
0 = 0
40 = 40
500 = 40
950 = 40
1900 = 40
2000 = 0

# ------------------------ configuration --------------------------

[Config_TrainData]
ETCS_ID = 4554
BALISEANTENNA_OFFSET = 10
BRK_PERCENTAGE = 160

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SPEED_MAX = 220
TRAIN_LENGTH = 180

[Config_EVCInit]
LINE_LEVEL = STM
RBC_ID = 789
RBC_PHONE = 123

[Config_SRSNationalDefaults]
# not a SRS value but here anyway...
COUNTRY_ID = 0

4  Scenario 3 : Use case 9, 10, 11, 12

WIP

5  Scenario 4 : Use case 13, 14

WIP

6  Scenario 5 : Use case 15

WIP