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ERTMS/ETCS

Test cases of Feature 5040300 specific to Reduced Envelopes

(5.4.3: Table of requirements for 'Start of Mission' procedure)

These test cases shall replace the corresponding ones in SUBSET 076-5-2 v4.0.0 for the Reduced Envelopes SV22 and SV21.

Total: 7 Test cases

REF: Subset-076-5-2-5040300

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Company	Technical Approval	Management approval
CEDEX		
DLR		
ITALCERTIFER		
LEF		
MULTITEL		
RINA		

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Test case 34

IDENTIFICATION		
	Title	Unique Number
Tested Equipment	On-board equipment	
Tested Feature	5.4.3: Table of requirements for 'Start of Mission' procedure	5040300
Test Case of Feature	During the SoM procedure, if the stored train position and level are valid (for example, when closing the desk and making the transition SR-SB) and if level is 2, and if no mobile terminal is registered to a radio network (D7), the ERTMS/ETCS on-board equipment shall wait a sufficient time is elapsed since it has sent the latest GSM-R Radio Network registration order to a GSM-R Mobile Terminal (S4); in such case the driver shall be informed (A42) and the process shall go to D9 and S10.	34
Applicable Mode/Level Combinations	L2: SB	
Target of Test	The target of this test case is to check that: - when the stored train position and level are valid within the scope of the Start of Mission procedure in SB in L2, - if no mobile terminal is registered to a radio network (D7), - the ERTMS/ETCS on-board equipment shall wait a sufficient time is elapsed since it has sent the latest GSM-R Radio Network registration order to a GSM-R Mobile Terminal (S4); in such case the driver shall be informed (A42) and the process shall go to D9 and S10.	
Version	4.0.1.RE	18.12.2024
Author	MULTITEL	
Based on Requirements	ETCS Baseline 4 Release 1 Compatible with: Reduced envelope of ETCS system versions up to 2.2 Reduced envelope of ETCS system versions up to 2.1	Subset-026-A.3.1 - Time from the latest Radio Network registration order to a Mobile Terminal after which the registration is considered as failed
		Subset-026-4.7.2.1.4 table - Output information Failed Radio Network registration(s)
		Subset-026-5.4.3.2 D2
		Subset-026-5.4.3.2 D3
		Subset-026-5.4.3.2 S4
		Subset-026-5.4.3.2 D9

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		Subset-026-5.4.3.2 A42
		Subset-026-5.4.3.2 A42 c)
		Subset-153-5.2.3.82 [Subset-026-5.4.3.2 D7]
		Subset-153-5.2.3.84 S4 b) [Subset-026-5.4.3.2 S4 f)]

METHOD OF TEST

Method	Check on the DMI that after entered the driver ID: - the ERTMS/ETCS on-board equipment waits a sufficient time (refer to Appendix A3.1) is elapsed since it has sent the latest Radio Network registration order to a Mobile Terminal (E7); - the driver is informed that the radio network registration has failed (A42) and the on-board goes to D9 and S10.
Constraints	The on-board equipment is in normal operation during a mission. No Mobile Terminal is registered to a Radio Network.

STARTING CONDITIONS (INTERNAL STATES)

States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
Train Position	VALID	-
ERTMS/ETCS Level	3	L2

REQUIRED STARTING CONDITIONS ON INTERFACES

State of interfaces	I/O	Interface	Comments
SAFE CONNECTION NOT SET-UP	-	RTM	-
Desk open	I	TIU	-
STANDSTILL	I	ODO	-

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SEQUENCE OF TEST									
Step	Previous		Description of Events	I/O	Interface	Comments	Next		Test Result
	Levels	Modes					Levels	Modes	
1	L2	SB	Use_FT5040300.7,8,9 Driver sets Driver ID	-	-	-	N/A	N/A	-
2	N/A	N/A	The Main window is displayed	O	DMI	-	N/A	N/A	-
3	N/A	N/A	The Status symbol "Hour glass" is displayed	O	DMI	The Main window is presented to the driver with all buttons 'disabled'. The symbol ST05 is displayed to show that the onboard still awaits the registration to the Radio Network.	N/A	N/A	-
4	N/A	N/A	DMI SYMBOL STATUS (NID_MESSAGE_JRU=21; DMI_SYMB_STATUS=<Bit42=1>) is recorded	O	JRU	-	N/A	N/A	
5	N/A	N/A	A timer expires	I	INT	After the A.3.1 "Time from the latest Radio Network registration order to a Mobile Terminal after which the registration is considered as failed." "SA-REGISTRATION.Indication" has not been received.	N/A	N/A	-
6	N/A	N/A	The system status message "Radio network registration failed" is displayed	O	DMI	-	N/A	N/A	-
7	N/A	N/A	DMI SYSTEM STATUS MESSAGE (NID_MESSAGE_JRU=23; SYSTEM_STATUS_MESSAGE=<Bit23=1>) is recorded	O	JRU	-	L2	SB	-

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END CONDITIONS (INTERNAL STATES)		
States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
Train Position	VALID	-
ERTMS/ETCS Level	3	L2

END CONDITIONS ON INTERFACES			
State of interfaces	I/O	Interface	Comments
Desk open	I	TIU	Unchanged
The system status message 'Radio network registration failed' is DISPLAYED.	O	DMI	-
STANDSTILL	I	ODO	-

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Test case 36

IDENTIFICATION		
	Title	Unique Number
Tested Equipment	On-board equipment	
Tested Feature	5.4.3: Table of requirements for 'Start of Mission' procedure	5040300
Test Case of Feature	On-board equipment offers the driver the possibility to re-enter the GSM-R network ID. The list of available and allowed networks is empty.	36
Applicable Mode/Level Combinations	L2: SB	
Target of Test	The target of this test is to check that, within the procedure S3 of start of mission in SB mode: - the on-board equipment offers the driver the possibility to re-enter the GSM-R network ID. - when the list of available and allowed GSM-R networks is empty, the driver is informed.	
Version	4.0.1.RE	18.12.2024
Author	MULTITEL	
Based on Requirements	ETCS Baseline 4 Release 1 Compatible with: Reduced envelope of ETCS system versions up to 2.2 Reduced envelope of ETCS system versions up to 2.1	Subset-026-3.18.4.3.2
		Subset-026-4.7.2.1.4 table - Output information Failed Radio Network registration(s)
		Subset-026-5.4.3.2 S3
		Subset-026-5.4.3.2 S3 a)
		Subset-026-5.4.3.2 D8
		Subset-026-5.4.3.2 A29
		Subset-153-5.2.3.83 [Subset-026-5.4.3.2 S3]
		Subset-153-5.2.3.85 [Subset-026-5.4.3.2 A29]
		Subset-153-5.2.3.86 [Subset-026-5.4.3.2 D8]

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METHOD OF TEST	
Method	Check on the DMI that : The Radio data window is displayed with the possibility to the driver to select 'Use short number', 'Enter RBC data', 'Radio network type' and 'GSM-R network ID'. The driver presses the 'GSM-R network ID' button. The system status message 'Radio network registration failed' is DISPLAYED. Check on the JRU that : The 'DMI SYSTEM STATUS MESSAGE' message is RECORDED with the Bit 23 (GSM-R network registration failed) = 1 (displayed) for variable SYSTEM_STATUS_MESSAGE.
Constraints	-

STARTING CONDITIONS (INTERNAL STATES)		
States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
ERTMS/ETCS Level	3	L2
Driver ID	VALID	A valid Driver ID is available on-board
RBC contact information	NOT RELEVANT	-

REQUIRED STARTING CONDITIONS ON INTERFACES			
State of interfaces	I/O	Interface	Comments
ERTMS/ETCS Level, Mode and Radio data window are DISPLAYED.	O	DMI	-
STANDSTILL	I	ODO	-

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SEQUENCE OF TEST									
Step	Previous		Description of Events	I/O	Interface	Comments	Next		Test Result
	Levels	Modes					Levels	Modes	
1	L2	SB	The Radio Data window is displayed	O	DMI	The on-board equipment displays the Radio data window and offers the possibility to the driver to select: - 'Use short number' - 'Enter RBC data' - 'Radio network ID'	N/A	N/A	-
2	N/A	N/A	The driver presses "Radio network ID"	I	DMI	-	N/A	N/A	-
3	N/A	N/A	SA-PERMISSION.Request is transmitted	O	RTM	-	N/A	N/A	
4	N/A	N/A	SA-PERMISSION.Indication (NID_MN=<empty>) is received	I	RTM	Info: the on-board equipment shall acquires an alphanumeric list of available and allowed GSM-R networks, based on a request to the GSM-R Mobile Terminal(s), this list is empty.	N/A	N/A	
5	N/A	N/A	The system status message "Radio network registration failed" is displayed	O	DMI	-	N/A	N/A	-
6	N/A	N/A	START DISPLAYING FIXED TEXT MESSAGE (NID_MESSAGE_JRU=16) is recorded	O	JRU	SYSTEM_STATUS_MESSAGE Bit 23=1 (GSM-R network registration failed)	N/A	N/A	-
7	N/A	N/A	The Main window is displayed	O	DMI	Starting conditions The driver can select either SH or NL or 'Train Data Entry' The 'Non-Leading' button is enabled if the 'non leading' input signal is received.	L2	SB	-

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END CONDITIONS (INTERNAL STATES)		
States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
ERTMS/ETCS Level	3	L2
Driver ID	NOT RELEVANT	-
RBC contact information	INVALID	-

END CONDITIONS ON INTERFACES			
State of interfaces	I/O	Interface	Comments
The system status message 'Radio network registration failed' is DISPLAYED.	O	DMI	ERTMS/ETCS Level and Mode are DISPLAYED

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Test case 38

IDENTIFICATION		
	Title	Unique Number
Tested Equipment	On-board equipment	
Tested Feature	5.4.3: Table of requirements for 'Start of Mission' procedure	5040300
Test Case of Feature	If at least one Mobile Terminal is registered to a GSM-R Network, on-board equipment offers the driver the possibility to enter the RBC contact information if its status is 'unknown'.	38
Applicable Mode/Level Combinations	L2: SB	
Target of Test	The target of this test is to check that, within the procedure S3 of start of mission in SB mode, the on-board equipment offers the driver the possibility to enter the RBC contact information if its status is 'unknown'.	
Version	4.0.1.RE	18.12.2024
Author	MULTITEL	
Based on Requirements	ETCS Baseline 4 Release 1 Compatible with: Reduced envelope of ETCS system versions up to 2.2 Reduced envelope of ETCS system versions up to 2.1	Subset-026-A.3.11 RBC phone number
		Subset-026-3.18.4.3.2
		Subset-026-3.18.4.3.5
		Subset-026-5.4.3.2 S3
		Subset-026-5.4.3.2 S3 i)
		Subset-026-5.4.3.3 - Following S3: driver has entered RBC contact information
		Subset-153-5.2.3.83 [Subset-026-5.4.3.2 S3]
		Subset-153-5.2.3.83 S3 e) [Subset-026-5.4.3.2 S3 i)]

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METHOD OF TEST	
Method	Check on the DMI that: The Radio data window is displayed with the possibility to the driver to select 'Use short number', 'Enter RBC data', 'Radio network type' and 'GSM-R network ID'. The driver presses the 'Enter RBC data' button. The RBC data window is displayed with no value for the RBC contact information (since the status of this information is UNKNOWN). The driver enters valid RBC contact information. The driver is allowed to validate the RBC data (the 'Yes' button related to the 'RBC data entry complete?' question is enabled). The driver validates the RBC data (presses the 'Yes' button related to the 'RBC data entry complete?' question). Check on the JRU that: The 'RBC CONTACT INFORMATION ENTERED BY THE DRIVER' message is RECORDED with the variable Q_RBCEENTRY=3.
Constraints	At least one Mobile Terminal registered to a Radio Network RBC contact information STATUS is UNKNOWN

STARTING CONDITIONS (INTERNAL STATES)		
States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
ERTMS/ETCS Level	3	L2
Driver ID	VALID	A valid Driver ID is available on-board
Radio Network information	VALID	-
RBC contact information	UNKNOWN	-

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REQUIRED STARTING CONDITIONS ON INTERFACES

State of interfaces	I/O	Interface	Comments
ERTMS/ETCS Level, Mode and Radio data window are DISPLAYED.	O	DMI	-
STANDSTILL	I	ODO	-

SEQUENCE OF TEST

Step	Previous		Description of Events	I/O	Interface	Comments	Next		Test Result
	Levels	Modes					Levels	Modes	
1	L2	SB	The Radio Data window is displayed	O	DMI	The on-board equipment displays the Radio data window and offers the possibility to the driver to select: - 'Use short number' - 'Enter RBC data' - 'Radio network ID'	N/A	N/A	-
2	N/A	N/A	The driver presses "Enter RBC data"	I	DMI	-	N/A	N/A	-
3	N/A	N/A	The RBC Data window is displayed	O	DMI	The on-board equipment displays the RBC data window with no value for the RBC contact information (since the status of this information is UNKNOWN).	N/A	N/A	-
4	N/A	N/A	The driver enters "RBC data"	I	DMI	-	N/A	N/A	-
5	N/A	N/A	RBC CONTACT INFORMATION ENTERED BY THE DRIVER (NID_MESSAGE_JRU=24; Q_RBCENTRY=2) is recorded	O	JRU	Info: Q_RBCENTRY=2: Enter RBC data	L2	SB	-

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END CONDITIONS (INTERNAL STATES)		
States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
ERTMS/ETCS Level	3	L2
Driver ID	NOT RELEVANT	-
Radio Network information	VALID	-
RBC contact information	VALID	-

END CONDITIONS ON INTERFACES			
State of interfaces	I/O	Interface	Comments
ERTMS/ETCS Level and Mode are DISPLAYED	O	DMI	-
STANDSTILL	I	ODO	-

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Test case 39

IDENTIFICATION		
	Title	Unique Number
Tested Equipment	On-board equipment	
Tested Feature	5.4.3: Table of requirements for 'Start of Mission' procedure	5040300
Test Case of Feature	If at least one Mobile Terminal is registered to a GSM-R network, on-board equipment offers the driver the possibility to revalidate the RBC contact information if its status is 'invalid' or "valid".	39
Applicable Mode/Level Combinations	L2: SB	
Target of Test	The target of this test is to check that, within the procedure S3 of start of mission in SB mode, the on-board equipment offers the driver the possibility to revalidate the RBC contact information if its status is 'invalid' or "valid".	
Version	4.0.1.RE	18.12.2024
Author	MULTITEL	
Based on Requirements	ETCS Baseline 4 Release 1 Compatible with: Reduced envelope of ETCS system versions up to 2.2 Reduced envelope of ETCS system versions up to 2.1	Subset-026-3.18.4.3.2
		Subset-026-4.7.2.1.4 table - Output information RBC contact information
		Subset-026-5.4.3.2 S3
		Subset-026-5.4.3.2 S3 i)
		Subset-026-5.4.3.3 - Following S3: driver has re-validated/re-entered RBC contact information
		Subset-153-5.2.3.83 [Subset-026-5.4.3.2 S3]
		Subset-153-5.2.3.83 S3 e) [Subset-026-5.4.3.2 S3 i)]

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METHOD OF TEST	
Method	Check on the DMI that: The Radio data window is displayed with the possibility to the driver to select 'Use short number', 'Enter RBC data', 'Radio network type' and 'GSM-R network ID'. The driver presses the 'Enter RBC data' button. The RBC data window is displayed with an initial value for the RBC contact information (since the status of this information is INVALID). The driver is allowed to validate the RBC data (the 'Yes' button related to the 'RBC data entry complete?' question is enabled). The driver validates the RBC data (presses the 'Yes' button related to the 'RBC data entry complete?' question). Check on the JRU that: The 'RBC CONTACT INFORMATION ENTERED BY THE DRIVER' message is RECORDED with the variable Q_RBCENTRY=3 (Enter RBC data)
Constraints	At least one Mobile Terminal registered to a GSM-R Network

STARTING CONDITIONS (INTERNAL STATES)		
States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
ERTMS/ETCS Level	3	L2
Driver ID	VALID	A valid Driver ID is available on-board
Radio Network information	VALID	-
RBC contact information	STORED	INVALID / VALID

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REQUIRED STARTING CONDITIONS ON INTERFACES

State of interfaces	I/O	Interface	Comments
ERTMS/ETCS Level, Mode and Radio data window are DISPLAYED.	O	DMI	-
STANDSTILL	I	ODO	-

SEQUENCE OF TEST

Step	Previous		Description of Events	I/O	Interface	Comments	Next		Test Result
	Levels	Modes					Levels	Modes	
1	L2	SB	The Radio Data window is displayed	O	DMI	The on-board equipment displays the Radio data window and offers the possibility to the driver to select: - 'Use short number' - 'Enter RBC data' - 'Radio network ID'	N/A	N/A	-
2	N/A	N/A	The driver presses "Enter RBC data"	I	DMI	-	N/A	N/A	-
3	N/A	N/A	The RBC Data window is displayed	O	DMI	The on-board equipment displays the RBC data window with an initial value for the RBC contact information (since the status of this information is INVALID).	N/A	N/A	-
4	N/A	N/A	The driver confirms "RBC data"	I	DMI	-	N/A	N/A	-
5	N/A	N/A	RBC CONTACT INFORMATION ENTERED BY THE DRIVER (NID_MESSAGE_JRU=24; Q_RBCENTRY=2) is recorded	O	JRU	Info: Q_RBCENTRY=2: Enter RBC data	L2	SB	-

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END CONDITIONS (INTERNAL STATES)

States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
ERTMS/ETCS Level	3	L2
Driver ID	NOT RELEVANT	-
Radio Network information	VALID	-
RBC contact information	VALID	-

END CONDITIONS ON INTERFACES

State of interfaces	I/O	Interface	Comments
ERTMS/ETCS Level and Mode are DISPLAYED	O	DMI	-
STANDSTILL	I	ODO	-

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Test case 40

IDENTIFICATION		
	Title	Unique Number
Tested Equipment	On-board equipment	
Tested Feature	5.4.3: Table of requirements for 'Start of Mission' procedure	5040300
Test Case of Feature	If at least one Mobile Terminal is registered to a GSM-R Network, on-board equipment offers the driver the possibility to re-enter the RBC contact information if its status is 'invalid' or "valid".	40
Applicable Mode/Level Combinations	L2: SB	
Target of Test	The target of this test is to check that, within the procedure S3 of start of mission in SB mode: the on-board equipment offers the driver the possibility to re-enter the RBC contact information if its status is 'invalid' or "valid". The RBC ID is limited must be spread from 0 to 16777214.	
Version	4.0.1.RE	18.12.2024
Author	MULTITEL	
Based on Requirements	ETCS Baseline 4 Release 1 Compatible with: Reduced envelope of ETCS system versions up to 2.2 Reduced envelope of ETCS system versions up to 2.1	Subset-026-A.3.11 RBC ID
		Subset-026-3.18.4.3.2
		Subset-026-3.18.4.3.5
		Subset-026-4.7.2.1.4 table - Input information RBC contact information
		Subset-026-5.4.3.2 S3
		Subset-026-5.4.3.2 S3 f)
		Subset-026-5.4.3.3 - Following S3: driver has re-validated/re-entered RBC contact information
		Subset-153-5.2.3.83 [Subset-026-5.4.3.2 S3 f)]
		Subset-153-5.2.3.83 [Subset-026-5.4.3.2 S3]

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METHOD OF TEST	
Method	Check on the DMI that: The Radio data window is displayed with the possibility to the driver to select 'Use short number', 'Enter RBC data', 'Radio network type' and 'GSM-R network ID'. The driver presses the 'Enter RBC data' button. The RBC data window is displayed with an initial value for the RBC contact information (since the status of this information is INVALID). The driver modifies the existing RBC contact information. RBC ID must be spread from 0 to 16777214. The driver is allowed to validate the RBC data (the 'Yes' button related to the 'RBC data entry complete?' question is enabled). The driver validates the RBC data (presses the 'Yes' button related to the 'RBC data entry complete?' question). Check on the JRU that : The 'RBC CONTACT INFORMATION ENTERED BY THE DRIVER' message is RECORDED with the variable Q_RBCENTRY=3
Constraints	At least one Mobile Terminal registered to a GSM-R Network

STARTING CONDITIONS (INTERNAL STATES)		
States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
ERTMS/ETCS Level	3	L2
Driver ID	VALID	A valid Driver ID is available on-board
Radio Network information	VALID	-
RBC contact information	STORED	INVALID / VALID

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REQUIRED STARTING CONDITIONS ON INTERFACES

State of interfaces	I/O	Interface	Comments
ERTMS/ETCS Level, Mode and Radio data window are DISPLAYED.	O	DMI	-
STANDSTILL	I	ODO	-

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SEQUENCE OF TEST									
Step	Previous		Description of Events	I/O	Interface	Comments	Next		Test Result
	Levels	Modes					Levels	Modes	
1	L2	SB	The Radio data window is displayed	O	DMI	The on-board equipment displays the Radio data window and offers the possibility to the driver to select: - 'Use short number' - 'Enter RBC data' - 'Radio network ID'	N/A	N/A	-
2	N/A	N/A	The driver presses "Enter RBC data"	I	DMI	-	N/A	N/A	-
3	N/A	N/A	The RBC data window is displayed	O	DMI	The on-board equipment displays the RBC data window with an initial value for the RBC contact information (since the status of this information is INVALID).	N/A	N/A	-
4	N/A	N/A	The driver enters "RBC ID"	I	DMI	The Driver tries to set a RBC ID value out of [0-16777214]	N/A	N/A	-
5	N/A	N/A	The RBC data window is displayed	O	DMI	The data part of the echo text shall indicate '++++' in red; the field is not in the Accepted state (Background of the data area = dark grey and Data value = white)	N/A	N/A	
6	N/A	N/A	The driver enters "RBC ID"	I	DMI	The Driver shall be enters a new value for RBC ID because the entered value is out of range. The RBC Phone Number has not been selected. The Driver set a RBC ID value in [0-16777214] The driver modifies "RBC Data"	N/A	N/A	-
7	N/A	N/A	The driver enters "RBC phone number"	I	DMI	The driver modifies the existing RBC Phone number.	N/A	N/A	-
8	N/A	N/A	The Yes button in the RBC data window is enabled	O	DMI	-	N/A	N/A	

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9	N/A	N/A	RBC CONTACT INFORMATION ENTERED BY THE DRIVER (NID_MESSAGE_JRU=24; Q_RBCENTRY=2) is recorded	O	JRU	Info: Q_RBCENTRY=2: Enter RBC data	L2	SB	-
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END CONDITIONS (INTERNAL STATES)		
States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
ERTMS/ETCS Level	3	L2
Driver ID	NOT RELEVANT	-
Radio Network information	VALID	-
RBC contact information	VALID	-

END CONDITIONS ON INTERFACES			
State of interfaces	I/O	Interface	Comments
ERTMS/ETCS Level and Mode are DISPLAYED	O	DMI	-
STANDSTILL	I	ODO	-

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Test case 60

IDENTIFICATION		
	Title	Unique Number
Tested Equipment	On-board equipment	
Tested Feature	5.4.3: Table of requirements for 'Start of Mission' procedure	5040300
Test Case of Feature	On-board equipment offers the driver the possibility to re-enter the GSM-R Radio Network ID. The on-board equipment shall terminate the ongoing communication session and the driver select a new GSM-R Radio Network ID from the proposed list.	60
Applicable Mode/Level Combinations	L2: SB	
Target of Test	The target of this test is to check that, within the procedure S3 of start of mission in SB mode: - the on-board equipment offers the driver the possibility to re-enter the GSM-R Radio Network ID; - the on-board equipment shall terminate the ongoing communication session; - the driver select a new GSM-R Radio Network ID from the proposed list.	
Version	4.0.1.RE	18.12.2024
Author	MULTITEL	
Based on Requirements	ETCS Baseline 4 Release 1 Compatible with: Reduced envelope of ETCS system versions up to 2.2 Reduced envelope of ETCS system versions up to 2.1	Subset-026-3.18.4.3.2
		Subset-026-3.18.4.3.6
		Subset-026-4.7.2.1.4 table - Input information Radio network information - GSM-R radio network-id
		Subset-026-5.4.3.2 S3
		Subset-026-5.4.3.2 S3 b)
		Subset-026-5.4.3.3 - S3: driver has re-entered a new GSM-R Radio Network ID or a new Radio Network type
		Subset-153-5.2.3.59 [Subset-026-3.18.4.3.6]
		Subset-153-5.2.3.83 [Subset-026-5.4.3.2 S3]

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		Subset-153-5.2.3.88 - S3: driver has re-entered a radio network ID [Subset-026-5.4.3.3 - S3: driver has re-entered a new GSM-R Radio Network ID or a new Radio Network type]
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METHOD OF TEST

Method	Check on the DMI that : The Radio data window is displayed with the possibility to the driver to select 'Use short number', 'Enter RBC data' and 'Radio network ID'. The driver presses the 'Radio network ID' button. The Radio Network ID window is displayed with a list of available and allowed networks. The driver selects a new Radio Network ID and validates it. The Radio data window is displayed again. Check on the JRU that : The 'RADIO NETWORK ID ENTERED BY THE DRIVER' message is RECORDED with the variable NID_MN identical to the data selected by the driver.
Constraints	-

STARTING CONDITIONS (INTERNAL STATES)

States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
ERTMS/ETCS Level	3	L2
Driver ID	VALID	A valid Driver ID is available on-board
RBC contact information	VALID	-
Radio communication session	ESTABLISHED	-

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REQUIRED STARTING CONDITIONS ON INTERFACES			
State of interfaces	I/O	Interface	Comments
SAFE CONNECTION SET-UP	I/O	RTM	-
ERTMS/ETCS Level, Mode and Radio data window are DISPLAYED.	O	DMI	-
STANDSTILL	I	ODO	-

SEQUENCE OF TEST									
Step	Previous		Description of Events	I/O	Interface	Comments	Next		Test Result
	Levels	Modes					Levels	Modes	
1	L2	SB	The driver presses "Radio Data"	I	DMI	-	L2	SB	
2	L2	SB	The Radio Data window is displayed	O	DMI	The on-board equipment displays the Radio data window and offers the possibility to the driver to select: - 'Contact last RBC', - 'Use short number', - 'Enter RBC data', - 'Radio network ID'.	N/A	N/A	-
3	N/A	N/A	The driver presses "Radio network ID"	I	DMI	-	N/A	N/A	-
4	N/A	N/A	Use_FT3050500.7 The on-board equipment terminates a communication session without any explicit trackside order.	-	-	-	N/A	N/A	
5	N/A	N/A	The GSM-R network ID window is displayed	O	DMI	-	N/A	N/A	-
6	N/A	N/A	The driver presses "Radio network ID"	I	DMI	-	N/A	N/A	-
7	N/A	N/A	The Radio Data window is displayed	O	DMI	-	N/A	N/A	-
8	N/A	N/A	GSM-R RADIO NETWORK ID ENTERED BY THE DRIVER (NID_MESSAGE_JRU=48; NID_MN) is recorded	O	JRU	-	L2	SB	-

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END CONDITIONS (INTERNAL STATES)		
States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
ERTMS/ETCS Level	3	L2
Driver ID	VALID	-
RBC contact information	NOT RELEVANT	-
Radio communication session	NOT ESTABLISHED	-

END CONDITIONS ON INTERFACES			
State of interfaces	I/O	Interface	Comments
SAFE CONNECTION NOT SET-UP	-	RTM	-
ERTMS/ETCS Level, Mode and Radio data window are DISPLAYED.	O	DMI	-

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Test case 61

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IDENTIFICATION		
	Title	Unique Number
Tested Equipment	On-board equipment	
Tested Feature	5.4.3: Table of requirements for 'Start of Mission' procedure	5040300
Test Case of Feature	On-board equipment offers the driver the possibility to re-enter the Radio Network ID. The on-board equipment shall terminate the ongoing communication session and the list of available and allowed networks is empty.	61
Applicable Mode/Level Combinations	L2: SB	
Target of Test	The target of this test is to check that, within the procedure S3 of start of mission in SB mode: - the on-board equipment offers the driver the possibility to re-enter the Radio Network ID; - the on-board equipment shall terminate the ongoing communication session; - when the list of available and allowed networks is empty, the driver is informed.	
Version	4.0.1.RE	18.12.2024
Author	MULTITEL	
Based on Requirements	ETCS Baseline 4 Release 1 Compatible with: Reduced envelope of ETCS system versions up to 2.2 Reduced envelope of ETCS system versions up to 2.1	Subset-026-3.18.4.3.2
		Subset-026-4.7.2.1.4 table - Output information Failed Radio Network registration(s)
		Subset-026-5.4.3.2 S3
		Subset-026-5.4.3.2 S3 a)
		Subset-026-5.4.3.2 D8
		Subset-026-5.4.3.2 A29
		Subset-153-5.2.3.83 [Subset-026-5.4.3.2 S3]
		Subset-153-5.2.3.85 [Subset-026-5.4.3.2 A29]
		Subset-153-5.2.3.86 [Subset-026-5.4.3.2 D8]

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METHOD OF TEST	
Method	Check on the DMI that : The Radio data window is displayed with the possibility to the driver to select 'Use short number', 'Enter RBC data' and 'GSM-R network ID'. The driver presses the 'GSM-R network ID' button. The system status message 'Radio network registration failed' is DISPLAYED. Check on the JRU that : The 'DMI SYSTEM STATUS MESSAGE' message is RECORDED with the Bit 23 (GSM-R network registration failed) = 1 (displayed) for variable SYSTEM_STATUS_MESSAGE.
Constraints	-

STARTING CONDITIONS (INTERNAL STATES)		
States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
ERTMS/ETCS Level	3	L2
Driver ID	VALID	A valid Driver ID is available on-board
RBC contact information	VALID	-
Radio communication session	ESTABLISHED	-

REQUIRED STARTING CONDITIONS ON INTERFACES			
State of interfaces	I/O	Interface	Comments
SAFE CONNECTION SET-UP	I/O	RTM	-
ERTMS/ETCS Level, Mode and Radio data window are DISPLAYED.	O	DMI	-
STANDSTILL	I	ODO	-

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SEQUENCE OF TEST									
Step	Previous		Description of Events	I/O	Interface	Comments	Next		Test Result
	Levels	Modes					Levels	Modes	
1	L2	SB	The driver presses "Radio Data"	I	DMI	-	L2	SB	
2	L2	SB	The Radio Data window is displayed	O	DMI	The on-board equipment displays the RBC contact window and offers the possibility to the driver to select - 'Contact last RBC', - 'Use short number', - 'Enter RBC data', - 'Radio network ID'.	N/A	N/A	-
3	N/A	N/A	The driver presses "Radio network ID"	I	DMI	-	N/A	N/A	-
4	N/A	N/A	Use_FT3050500.7 The on-board equipment terminates a communication session without any explicit trackside order.	-	-	-	N/A	N/A	
5	N/A	N/A	SA-PERMISSION.Request is transmitted	O	RTM	-	N/A	N/A	
6	N/A	N/A	SA-PERMISSION.Indication (NID_MN=<empty>) is received	I	RTM	Info: the on-board equipment shall acquires an alphanumeric list of available and allowed networks, based on a request to the Mobile Terminal(s), this list is empty.	N/A	N/A	
7	N/A	N/A	The Radio data window is displayed	O	DMI	There are no available radio network proposed to the driver.	N/A	N/A	
8	N/A	N/A	The system status message "Radio network registration failed" is displayed	O	DMI	-	N/A	N/A	-
9	N/A	N/A	DMI SYSTEM STATUS MESSAGE (NID_MESSAGE_JRU=23; SYSTEM_STATUS_MESSAGE=<Bit23=1>) is recorded	O	JRU	-	L2	SB	-

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END CONDITIONS (INTERNAL STATES)		
States of ERTMS/ETCS information	Status/Value	Description
ERTMS/ETCS Mode	6	SB
ERTMS/ETCS Level	3	L2
Driver ID	VALID	-
RBC contact information	NOT RELEVANT	-
Radio communication session	NOT ESTABLISHED	-

END CONDITIONS ON INTERFACES			
State of interfaces	I/O	Interface	Comments
SAFE CONNECTION NOT SET-UP	-	RTM	-
The system status message 'Radio network registration failed' is DISPLAYED.	O	DMI	ERTMS/ETCS Level and Mode are DISPLAYED