

Project Description

1. General data

Project: MoRC

Directory: \MoRC

Number of documents: 2

Document types	Number of documents
Scade 6	1
SUBSET026_3v330_doc	1

Number of requirements: 1121

Number of derived requirements: 0

Number of uncovered requirements: 1080

2. Management of Radio Communication Model: Scade 6

Management of Radio Communication Model covers 3% of requirements of SUBSET-026-3 v330_

3. SUBSET-026-3 v330_: SUBSET026_3v330_doc

SUBSET-026-3 v330_ contains 1080 uncovered requirements

Traceability Matrix

4. SUBSET-026-3 v330_ is covered by Management of Radio Communication Model

Coverage ratio: 3%

Upstream	Text	Downstream
3.5.3.1	It shall be possible for ERTMS/ETCS on-board equipment and RBC to initiate a communication session.	initiateRequest_fromOnboardEquipment of Initiate_a_Session
3.5.3.1	It shall be possible for ERTMS/ETCS on-board equipment and RBC to initiate a communication session.	orderReceivedFromRBC of managementOfRadioCommunication
3.5.3.2	A Radio Infill Unit (see section 3.9.3) shall never initiate a communication session.	orderReceivedFromRadio_InfillUnit of managementOfRadioCommunication
3.5.3.4	The on-board shall establish a communication session	atStartOfMission of Initiate_a_Session
3.5.3.4	The on-board shall establish a communication session	modeChangeHasToBeReportedToRBC of Initiate_a_Session
3.5.3.4	The on-board shall establish a communication session	diagram_Initiate_a_Session_1
3.5.3.4	The on-board shall establish a communication session	atStartOfMission of managementOfRadioCommunication
3.5.3.4	The on-board shall establish a communication session	driverHasManuallyChangedLevel of managementOfRadioCommunication
3.5.3.4	The on-board shall establish a communication session	modeChangeHasToBeReportedToRBC of managementOfRadioCommunication
3.5.3.4	The on-board shall establish a communication session	startOfMissionProcedureCompleted of managementOfRadioCommunication

Upstream	Text	Downstream
3.5.3.4	The on-board shall establish a communication session	trainFrontReachesEndOfAnnouncedRadioHole of managementOfRadioCommunication
3.5.3.5	The order to contact an RBC shall include	morc_RBC_action_Type
3.5.3.5	The order to contact an RBC shall include	orderToContactAnRBC_Type
3.5.3.5.2	If the ERTMS/ETCS on-board equipment has to establish a communication session with an RBC whilst in session with another RBC, the existing communication session shall be terminated (see 3.5.5.2 for details) and the new one shall be established. Exception: the order to contact an Accepting RBC shall not terminate the communication session with the Handing Over RBC.	initiateEstablishingNewSessionRequest Initiate_a_Session of
3.5.3.5.2	If the ERTMS/ETCS on-board equipment has to establish a communication session with an RBC whilst in session with another RBC, the existing communication session shall be terminated (see 3.5.5.2 for details) and the new one shall be established. Exception: the order to contact an Accepting RBC shall not terminate the communication session with the Handing Over RBC.	OBU_hasToEstablishANewSession managementOfRadioCommunication of
3.5.3.5.2	If the ERTMS/ETCS on-board equipment has to establish a communication session with an RBC whilst in session with another RBC, the existing communication session shall be terminated (see 3.5.5.2 for details) and the new one shall be established. Exception: the order to contact an Accepting RBC shall not terminate the communication session with the Handing Over RBC.	terminateAndEstablishSession
3.5.3.5.2	If the ERTMS/ETCS on-board equipment has to establish a communication session with an RBC whilst in session with another RBC, the existing communication session shall be terminated (see 3.5.5.2 for details) and the new one shall be established. Exception: the order to contact an Accepting RBC shall not terminate the communication session with the Handing Over RBC.	OBU_hasToEstablishANewSession terminateAndEstablishSession of
3.5.3.5.3	The order to contact an Accepting RBC shall be part of the	orderToContactAnAcceptingRBC_Type

Upstream	Text	Downstream
	RBC transition order and shall include:	
3.5.3.5.3	The order to contact an Accepting RBC shall be part of the RBC transition order and shall include:	rbc_TransitionOrder_Type
3.5.3.6	The order to contact a Radio Infill Unit shall include	orderToContactARadioInfillUnit_Type
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	cMaxNoOfConnectionRetries
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	connectionSuccessfullyEstablished of establish_a_CommunicationSession
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	endOfMissionIsPerformed of establish_a_CommunicationSession
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	isPartOfAnOngoingStartOfMissionProcedure of establish_a_CommunicationSession
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	orderDoesNotRequestToContactAnAcceptingRBC of establish_a_CommunicationSession
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	orderToEstablishACommunicationSession_from OBU of establish_a_CommunicationSession
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	orderToEstablishACommunicationSession_from Trackside of establish_a_CommunicationSession
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	settingUpSafeConnectionHasFailed of establish_a_CommunicationSession
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	trainPassesA_RBC_RBC_border_WithItsFrontEnd of establish_a_CommunicationSession

Upstream	Text	Downstream
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	trainPassesALevelTransitionBorder of establish_a_CommunicationSession
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	sendTheMessageInitiationOfCommunicationSe ssionToTrackside of establish_a_CommunicationSession
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	sSendTheMessageInitiationOfCommunicationS essionToTrackside
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	EstablishmentOfACommunicationSession_SM
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	noOfConnectionRetriesExceeded of RequestSetupOfASafeRadioConnection_initiate dByOBU
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	RequestConnectionWithTrackSide_SM
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	TryToEstablishConnection_isPartOfStartOfMiss ion
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	WaitForSystemVersionFromTrackSide
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	communicationSessionInitiatedByOBU_ of Initiate_a_Session
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	isPartOfAnOngoingStartOfMissionProcedure of managementOfRadioCommunication
3.5.3.7	If the establishment of a communication session is	orderDoesNotRequestToContactAnAcceptingR

Upstream	Text	Downstream
	initiated by the on-board, it shall be performed according to the following steps:	BC of managementOfRadioCommunication
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	orderToEstablishACommunicationSession_from OBU of managementOfRadioCommunication
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	trainPassesA_RBC_RBC_border_WithItsFrontE nd of managementOfRadioCommunication
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	trainPassesALevelTransitionBorder of managementOfRadioCommunication
3.5.3.7	If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:	sendTheMessageInitiationOfCommunicationSe ssionToTrackside of managementOfRadioCommunication
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	systemVersionFromTracksideSupported of establish_a_CommunicationSession
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	systemVersionReceived of establish_a_CommunicationSession
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	sendASessionEstablishedReportToTrackside of establish_a_CommunicationSession
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	sendMessage_NoCompatibleVersionSupported of establish_a_CommunicationSession
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	terminateTheCommunicationSession of establish_a_CommunicationSession
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	sSendMessage_NoCompatibleVersionSupporte d
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	sSendMessageEstablishedReport
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	sTerminateTheCommunicationSession

Upstream	Text	Downstream
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	CompatibleSystemVersionSupported
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	NoCompatibleSystemVersionSupported
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	WaitForSystemVersionFromTrackSide
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	WaitTil_CommunicationSessionTerminated
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	systemVersionFromTracksideSupported of managementOfRadioCommunication
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	systemVersionReceived of managementOfRadioCommunication
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	sendASessionEstablishedReportToTrackside of managementOfRadioCommunication
3.5.3.8	When the on-board receives the system version it shall consider the communication session established and:	sendMessage_NoCompatibleVersionSupported of managementOfRadioCommunication
3.5.3.10	If the establishment of a communication session is initiated by the RBC, it shall be performed according to the following steps:	initiationOfACommunicationSession_receivedFromTrackside of establish_a_CommunicationSession
3.5.3.10	If the establishment of a communication session is initiated by the RBC, it shall be performed according to the following steps:	sendASessionEstablishedReportToTrackside of establish_a_CommunicationSession
3.5.3.10	If the establishment of a communication session is initiated by the RBC, it shall be performed according to the following steps:	sSendASessionEstablishedReportToTrackside
3.5.3.10	If the establishment of a communication session is initiated by the RBC, it shall be performed according to the following steps:	ConsiderTheCommunicationSessionEstablished
3.5.3.10	If the establishment of a communication session is initiated by the RBC, it shall be performed according to the	Idle

Upstream	Text	Downstream
	following steps:	
3.5.3.10	If the establishment of a communication session is initiated by the RBC, it shall be performed according to the following steps:	RequestSetupOfASafeRadioConnection_initiate dByTrackside
3.5.3.10	If the establishment of a communication session is initiated by the RBC, it shall be performed according to the following steps:	WaitForMessage_InitiationOfCommunicationSe ssion_FromTrackside
3.5.3.10	If the establishment of a communication session is initiated by the RBC, it shall be performed according to the following steps:	sendASessionEstablishedReportToTrackside of managementOfRadioCommunication
3.5.3.13	An order to contact the RBC may contain a special value for the RBC identity indicating that the on-board shall contact the last known RBC (i.e., using the stored RBC ID/phone number, if any); the phone number indicated in the order shall be ignored by the on-board equipment.	cRBC_id_contactLastKnownRBC
3.5.3.13	An order to contact the RBC may contain a special value for the RBC identity indicating that the on-board shall contact the last known RBC (i.e., using the stored RBC ID/phone number, if any); the phone number indicated in the order shall be ignored by the on-board equipment.	evaluateOrderToContactAnRBD
3.5.3.13.1	If there is no RBC ID/ phone number stored on-board, the order to contact the RBC shall be ignored.	evaluateOrderToContactAnRBD
3.5.3.13.1	If there is no RBC ID/ phone number stored on-board, the order to contact the RBC shall be ignored.	diagram_evaluateOrderToContactAnRBD_1
3.5.3.14	Note: If a short number is used (considering trackside call routing), that number can be programmed into the balise instead of the normal phone number.	evaluateOrderToContactAnRBD
3.5.3.15	An order to contact the RBC may contain a special value for the RBC phone number indicating that the on-board shall use the on-board short number.	evaluateOrderToContactAnRBD
3.5.3.16		evaluateOrderToContactAnRBD

Upstream	Text	Downstream
3.5.4.1	When a communication session is established, in case of a loss of the safe radio connection, i.e., if the disconnection has not been ordered (see 3.5.5.1), the involved entities shall consider the communication session still established for a defined time. The defined time shall start as soon as EURORADIO has indicated the loss of the safe radio connection.	cRadioConnectionReestablishingTimeout
3.5.4.1	When a communication session is established, in case of a loss of the safe radio connection, i.e., if the disconnection has not been ordered (see 3.5.5.1), the involved entities shall consider the communication session still established for a defined time. The defined time shall start as soon as EURORADIO has indicated the loss of the safe radio connection.	communicationSessionEstablished maintaining_a_CommunicationSession of
3.5.4.1	When a communication session is established, in case of a loss of the safe radio connection, i.e., if the disconnection has not been ordered (see 3.5.5.1), the involved entities shall consider the communication session still established for a defined time. The defined time shall start as soon as EURORADIO has indicated the loss of the safe radio connection.	disconnectionHasNotBeenOrdered maintaining_a_CommunicationSession of
3.5.4.1	When a communication session is established, in case of a loss of the safe radio connection, i.e., if the disconnection has not been ordered (see 3.5.5.1), the involved entities shall consider the communication session still established for a defined time. The defined time shall start as soon as EURORADIO has indicated the loss of the safe radio connection.	lossOfTheSafeRadioConnection maintaining_a_CommunicationSession of
3.5.4.1	When a communication session is established, in case of a loss of the safe radio connection, i.e., if the disconnection has not been ordered (see 3.5.5.1), the involved entities shall consider the communication session still established for a defined time. The defined time shall start as soon as EURORADIO has indicated the loss of the safe radio connection.	safeRadioConnectionReestablished maintaining_a_CommunicationSession of

Upstream	Text	Downstream
3.5.4.1	When a communication session is established, in case of a loss of the safe radio connection, i.e., if the disconnection has not been ordered (see 3.5.5.1), the involved entities shall consider the communication session still established for a defined time. The defined time shall start as soon as EURORADIO has indicated the loss of the safe radio connection.	CommunicationSessionEstablished
3.5.4.1	When a communication session is established, in case of a loss of the safe radio connection, i.e., if the disconnection has not been ordered (see 3.5.5.1), the involved entities shall consider the communication session still established for a defined time. The defined time shall start as soon as EURORADIO has indicated the loss of the safe radio connection.	1
3.5.4.1	When a communication session is established, in case of a loss of the safe radio connection, i.e., if the disconnection has not been ordered (see 3.5.5.1), the involved entities shall consider the communication session still established for a defined time. The defined time shall start as soon as EURORADIO has indicated the loss of the safe radio connection.	1
3.5.4.2	When EURORADIO indicates the loss of the safe radio connection, the ERTMS/ETCS on-board equipment shall immediately try to set-up a new safe radio connection.	cRadioConnectionReestablishingTimeout
3.5.4.2.1	If the safe radio connection is not re-established after the defined time (as defined in A3.1), both, on-board equipment and trackside, shall consider the session as terminated.	cRadioConnectionReestablishingTimeout
3.5.4.2.1	If the safe radio connection is not re-established after the defined time (as defined in A3.1), both, on-board equipment and trackside, shall consider the session as terminated.	CommunicationSessionEstablished
3.5.4.2.1	If the safe radio connection is not re-established after the defined time (as defined in A3.1), both, on-board	2

Upstream	Text	Downstream
	equipment and trackside, shall consider the session as terminated.	
3.5.4.3	The attempts shall be repeated, until at least one of the following conditions is met:	1
3.5.4.3	The attempts shall be repeated, until at least one of the following conditions is met:	2
3.5.4.3	The attempts shall be repeated, until at least one of the following conditions is met:	1
3.5.4.4	Exception to 3.5.4.2 and 3.5.4.3: the on-board equipment shall not try to set up a new safe radio connection and shall stop any on-going attempts if the train front is inside an announced radio hole (see 3.12.1.3). The on-board equipment shall try to set it up again when the train front reaches the end of the radio hole.	trainFrontInsideInAnAnnouncedRadioHole of maintaining_a_CommunicationSession
3.5.4.4	Exception to 3.5.4.2 and 3.5.4.3: the on-board equipment shall not try to set up a new safe radio connection and shall stop any on-going attempts if the train front is inside an announced radio hole (see 3.12.1.3). The on-board equipment shall try to set it up again when the train front reaches the end of the radio hole.	ConnecctionLostInAnnouncedRadioHole
3.5.4.4	Exception to 3.5.4.2 and 3.5.4.3: the on-board equipment shall not try to set up a new safe radio connection and shall stop any on-going attempts if the train front is inside an announced radio hole (see 3.12.1.3). The on-board equipment shall try to set it up again when the train front reaches the end of the radio hole.	1
3.5.4.4	Exception to 3.5.4.2 and 3.5.4.3: the on-board equipment shall not try to set up a new safe radio connection and shall stop any on-going attempts if the train front is inside an announced radio hole (see 3.12.1.3). The on-board equipment shall try to set it up again when the train front reaches the end of the radio hole.	trainFrontInsideInAnAnnouncedRadioHole of managementOfRadioCommunication

Upstream	Text	Downstream
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	cPositionReoport_MaxNoOfRepetitions
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	cPositionReportRepetitionInterval
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	driverClosesTheDeskduringStartOfMission of initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	endOfMissionIsExecuted of initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	errorConditionRequiringTerminationDetected of initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	isInCommunicationSessionWithAnRIU of initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	level_1_isLeft of initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	orderReceivedFromTrackside of initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	receivedOrderToTerminateTheSession of initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	trainExitedFromAnRBCArea of initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	trainIsRejectedByRBC_duringStartOfMission of initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	sendAPositionReport of initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	definedNumberOfRepetitionsHasBeenReached of initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be	noReplyReceivedAfterLastRepetition of

Upstream	Text	Downstream
	initiated only by the on-board and in the following cases:	initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	orderToTerminateTheSessionIsReceived of initiateTerminatingASession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	sSendAPositionReport
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	sTerminateTheCommunicationSession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	TrainExitedFromRBCArea_SM
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	WaitForOrderToTerminateTheSession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	diagram_WaitForOrderToTerminateTheSession _1
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	driverClosesTheDeskduringStartOfMission of managementOfRadioCommunication
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	endOfMissionIsExecuted of managementOfRadioCommunication
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	errorConditionRequiringTerminationDetected of managementOfRadioCommunication
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	isInCommunicationSessionWithAnRIU of managementOfRadioCommunication
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	orderReceivedFromTrackside of managementOfRadioCommunication
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	trainExitedFromAnRBCArea of managementOfRadioCommunication
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	trainIsRejectedByRBC_duringStartOfMission of managementOfRadioCommunication
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	sendAPositionReport of managementOfRadioCommunication

Upstream	Text	Downstream
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	newOrderToEstablishASession_in of terminateAndEstablishSession
3.5.5.1	The termination of a communication session shall be initiated only by the on-board and in the following cases:	newOrderToEstablishASession_out of terminateAndEstablishSession
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	acknowledgementOfTerminationOfCommunicati onSessionReceived of managementOfRadioCommunication
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	sendATerminationOfCommunicationMessage of managementOfRadioCommunication
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	terminating_a_CommunicationSession
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	acknowledgementOfTerminationOfCommunicati onSessionReceived of terminating_a_CommunicationSession
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	aSessionIsEstablished of terminating_a_CommunicationSession
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	requestReleaseOfSafeRadioConnectionWithTra ckside of terminating_a_CommunicationSession
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	sendATerminationOfCommunicationMessage of terminating_a_CommunicationSession
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	initiateTerminationOfEstablishedSession of terminating_a_CommunicationSession
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	sRequestReleaseOfSafeRadioConnectionWithT rackside

Upstream	Text	Downstream
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	sSendATerminationOfCommunicationMessage
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	TerminateTheCommunicationSession_SM
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	1
3.5.5.2	In case a session is established, the on-board equipment shall terminate the communication session according to the following steps:	1
3.5.5.3	No further message shall be sent by the on-board after the message Termination of communication session.	terminating_a_CommunicationSession
3.5.5.3.1	Exception: In case a communication session is established and no acknowledgement is received within a fixed waiting time (see Appendix A.3.1) after sending the "Termination of communication session" message, the message shall be repeated with the fixed waiting time after each repetition.	cTerminationOfCommunicationSession_MaxNoOfRepetitions
3.5.5.3.1	Exception: In case a communication session is established and no acknowledgement is received within a fixed waiting time (see Appendix A.3.1) after sending the "Termination of communication session" message, the message shall be repeated with the fixed waiting time after each repetition.	cTerminationOfCommunicationSessionRepetitionInterval
3.5.5.3.1	Exception: In case a communication session is established and no acknowledgement is received within a fixed waiting time (see Appendix A.3.1) after sending the "Termination of communication session" message, the message shall be repeated with the fixed waiting time after each repetition.	ignoreMessagesFromRBC_exceptAckOfTerminationOfCommunicationSession of terminating_a_CommunicationSession

Upstream	Text	Downstream
3.5.5.3.1	Exception: In case a communication session is established and no acknowledgement is received within a fixed waiting time (see Appendix A.3.1) after sending the "Termination of communication session" message, the message shall be repeated with the fixed waiting time after each repetition.	sendATerminationOfCommunicationMessage of terminating_a_CommunicationSession
3.5.5.3.1	Exception: In case a communication session is established and no acknowledgement is received within a fixed waiting time (see Appendix A.3.1) after sending the "Termination of communication session" message, the message shall be repeated with the fixed waiting time after each repetition.	considerTheCommunicationSessionTerminated of terminating_a_CommunicationSession
3.5.5.3.1	Exception: In case a communication session is established and no acknowledgement is received within a fixed waiting time (see Appendix A.3.1) after sending the "Termination of communication session" message, the message shall be repeated with the fixed waiting time after each repetition.	sSendATerminationOfCommunicationMessage
3.5.5.3.1	Exception: In case a communication session is established and no acknowledgement is received within a fixed waiting time (see Appendix A.3.1) after sending the "Termination of communication session" message, the message shall be repeated with the fixed waiting time after each repetition.	CommunicationSession_Terminated
3.5.5.3.1	Exception: In case a communication session is established and no acknowledgement is received within a fixed waiting time (see Appendix A.3.1) after sending the "Termination of communication session" message, the message shall be repeated with the fixed waiting time after each repetition.	WaitForAcknowledgementMessage
3.5.5.3.1	Exception: In case a communication session is established and no acknowledgement is received within a fixed waiting time (see Appendix A.3.1) after sending the "Termination of communication session" message, the	1

Upstream	Text	Downstream
	message shall be repeated with the fixed waiting time after each repetition.	
3.5.5.3.2	After a defined number of repetitions (see Appendix A.3.1), and if no acknowledgment is received within the fixed waiting time from the time of the last sending of "Termination of communication session", the ERTMS/ETCS onboard equipment shall consider the communication session terminated.	considerTheCommunicationSessionTerminated of terminating_a_CommunicationSession
3.5.5.3.2	After a defined number of repetitions (see Appendix A.3.1), and if no acknowledgment is received within the fixed waiting time from the time of the last sending of "Termination of communication session", the ERTMS/ETCS onboard equipment shall consider the communication session terminated.	CommunicationSession_Terminated
3.5.5.3.2	After a defined number of repetitions (see Appendix A.3.1), and if no acknowledgment is received within the fixed waiting time from the time of the last sending of "Termination of communication session", the ERTMS/ETCS onboard equipment shall consider the communication session terminated.	1
3.5.5.6	Messages from the RBC received onboard after the message "Termination of communication session" has been sent shall be ignored with the exception of the Acknowledgement of the termination of communication session.	WaitForAcknowledgementMessage
3.5.5.7	In case an order to terminate the communication session is received, while the communication session is currently being established, the on-board shall abort the process of establishing it and shall release the safe radio connection.	aSessionIsCurrentlyBeingEstablished of terminating_a_CommunicationSession
3.5.5.7	In case an order to terminate the communication session is received, while the communication session is currently being established, the on-board shall abort the process of establishing it and shall release the safe radio connection.	establishingACommunicationSessionAborted of terminating_a_CommunicationSession

Upstream	Text	Downstream
3.5.5.7	In case an order to terminate the communication session is received, while the communication session is currently being established, the on-board shall abort the process of establishing it and shall release the safe radio connection.	abortEstablishingACommunicationSession of terminating_a_CommunicationSession
3.5.5.7	In case an order to terminate the communication session is received, while the communication session is currently being established, the on-board shall abort the process of establishing it and shall release the safe radio connection.	initiateTerminationOfEstablishedSession of terminating_a_CommunicationSession
3.5.5.7	In case an order to terminate the communication session is received, while the communication session is currently being established, the on-board shall abort the process of establishing it and shall release the safe radio connection.	initiateTerminationOfEstablishingSession of terminating_a_CommunicationSession
3.5.5.7	In case an order to terminate the communication session is received, while the communication session is currently being established, the on-board shall abort the process of establishing it and shall release the safe radio connection.	EstablishingACommunicationSessionAborted
3.5.5.7	In case an order to terminate the communication session is received, while the communication session is currently being established, the on-board shall abort the process of establishing it and shall release the safe radio connection.	1
3.5.5.7	In case an order to terminate the communication session is received, while the communication session is currently being established, the on-board shall abort the process of establishing it and shall release the safe radio connection.	2
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio Network:	afterDriverEntryOfANewRadioNetworkID of managementOfRadioCommunication
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio Network:	atPowerUp of managementOfRadioCommunication
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio	M_LEVEL of managementOfRadioCommunication

Upstream	Text	Downstream
	Network:	
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio Network:	RadioNetworkID_fromTrackside of managementOfRadioCommunication
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio Network:	orderTheRegistrationOfItsConnectedMobiles of managementOfRadioCommunication
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio Network:	registeringToTheRadioNetwork
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio Network:	afterDriverEntryOfANewRadioNetworkID of registeringToTheRadioNetwork
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio Network:	atPowerUp of registeringToTheRadioNetwork
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio Network:	etcs_level of registeringToTheRadioNetwork
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio Network:	RadioNetworkID_fromTrackside of registeringToTheRadioNetwork
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio Network:	registrationOrderedFromTrackside of registeringToTheRadioNetwork
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio Network:	orderTheRegistrationOfItsConnectedMobiles of registeringToTheRadioNetwork
3.5.6.1	ERTMS/ETCS on-board equipment shall order the registration of its connected Mobile Terminal(s) to a Radio Network:	orderTheRegistrationOfEachMobile of registeringToTheRadioNetwork

Upstream	Text	Downstream
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	radioNetworkID_Type
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	validRadioNetworkID_Type
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	afterDriverEntryOfANewRadioNetworkID managementOfRadioCommunication of
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	RadioNetworkID_fromTrackside managementOfRadioCommunication of
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	registeringToTheRadioNetwork
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	afterDriverEntryOfANewRadioNetworkID registeringToTheRadioNetwork of
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	atPowerOff of registeringToTheRadioNetwork
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	RadioNetworkID_fromDriver registeringToTheRadioNetwork of

Upstream	Text	Downstream
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	RadioNetworkID_fromTrackside registeringToTheRadioNetwork of
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	RadioNetworkID_memorized registeringToTheRadioNetwork of
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	actualRadioNetworkID registeringToTheRadioNetwork of
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	memorizeTheLastRadioNetworkID registeringToTheRadioNetwork of
3.5.6.2	When powered-off, ERTMS/ETCS on-board equipment shall memorize the last received Radio Network identity (from trackside or from driver) and shall use it when powered-up again.	actualRadioNetworkID_loc registeringToTheRadioNetwork of
3.5.6.3	If no Radio Network identity received from trackside or from driver could have been memorized by ERTMS/ETCS on-board equipment (e.g. after a System Failure or at very first power-up), this latter shall nevertheless order the registration of its Mobile Terminal(s) to a default Radio Network.	mobileHWCmd_Type
3.5.6.3	If no Radio Network identity received from trackside or from driver could have been memorized by ERTMS/ETCS on-board equipment (e.g. after a System Failure or at very first power-up), this latter shall nevertheless order the registration of its Mobile Terminal(s) to a default Radio Network.	triggerDecisionThatNoRadioNetworkIDAvailable of managementOfRadioCommunication
3.5.6.3	If no Radio Network identity received from trackside or	RadioNetworkID_Default of

Upstream	Text	Downstream
	from driver could have been memorized by ERTMS/ETCS on-board equipment (e.g. after a System Failure or at very first power-up), this latter shall nevertheless order the registration of its Mobile Terminal(s) to a default Radio Network.	managementOfRadioCommunication
3.5.6.3	If no Radio Network identity received from trackside or from driver could have been memorized by ERTMS/ETCS on-board equipment (e.g. after a System Failure or at very first power-up), this latter shall nevertheless order the registration of its Mobile Terminal(s) to a default Radio Network.	mobileSWCmd registeringToTheRadioNetwork of
3.5.6.3	If no Radio Network identity received from trackside or from driver could have been memorized by ERTMS/ETCS on-board equipment (e.g. after a System Failure or at very first power-up), this latter shall nevertheless order the registration of its Mobile Terminal(s) to a default Radio Network.	triggerDecisionThatNoRadioNetworkIDAvailable of registeringToTheRadioNetwork
3.5.6.3	If no Radio Network identity received from trackside or from driver could have been memorized by ERTMS/ETCS on-board equipment (e.g. after a System Failure or at very first power-up), this latter shall nevertheless order the registration of its Mobile Terminal(s) to a default Radio Network.	RadioNetworkID_Default registeringToTheRadioNetwork of
3.5.6.3	If no Radio Network identity received from trackside or from driver could have been memorized by ERTMS/ETCS on-board equipment (e.g. after a System Failure or at very first power-up), this latter shall nevertheless order the registration of its Mobile Terminal(s) to a default Radio Network.	noValidActualRadioNetworkID_available registeringToTheRadioNetwork of
3.5.6.3.2	Note 2: if ERTMS/ETCS on-board equipment is powered-up in an area not covered by the memorized or default Radio Network, attempts to register to this Radio Network will be repeated unconditionally by the Mobile Terminal(s) until either an attempt is successful or a new	mobileHWAction_Type

Upstream	Text	Downstream
	Radio Network identity is received from trackside or from driver, preventing Mobile Terminal(s) from registering to any unwanted Radio Network.	
3.5.6.3.2	Note 2: if ERTMS/ETCS on-board equipment is powered-up in an area not covered by the memorized or default Radio Network, attempts to register to this Radio Network will be repeated unconditionally by the Mobile Terminal(s) until either an attempt is successful or a new Radio Network identity is received from trackside or from driver, preventing Mobile Terminal(s) from registering to any unwanted Radio Network.	mobileHWCmd_Type
3.5.6.3.2	Note 2: if ERTMS/ETCS on-board equipment is powered-up in an area not covered by the memorized or default Radio Network, attempts to register to this Radio Network will be repeated unconditionally by the Mobile Terminal(s) until either an attempt is successful or a new Radio Network identity is received from trackside or from driver, preventing Mobile Terminal(s) from registering to any unwanted Radio Network.	mobileHWCmd managementOfRadioCommunication of
3.5.6.3.2	Note 2: if ERTMS/ETCS on-board equipment is powered-up in an area not covered by the memorized or default Radio Network, attempts to register to this Radio Network will be repeated unconditionally by the Mobile Terminal(s) until either an attempt is successful or a new Radio Network identity is received from trackside or from driver, preventing Mobile Terminal(s) from registering to any unwanted Radio Network.	radioNetworkMobile
3.5.6.3.2	Note 2: if ERTMS/ETCS on-board equipment is powered-up in an area not covered by the memorized or default Radio Network, attempts to register to this Radio Network will be repeated unconditionally by the Mobile Terminal(s) until either an attempt is successful or a new Radio Network identity is received from trackside or from driver, preventing Mobile Terminal(s) from registering to any unwanted Radio Network.	mobileHWCmd of radioNetworkMobile

Upstream	Text	Downstream
3.5.6.3.2	Note 2: if ERTMS/ETCS on-board equipment is powered-up in an area not covered by the memorized or default Radio Network, attempts to register to this Radio Network will be repeated unconditionally by the Mobile Terminal(s) until either an attempt is successful or a new Radio Network identity is received from trackside or from driver, preventing Mobile Terminal(s) from registering to any unwanted Radio Network.	RegisteringToTheRadioNetwork
3.5.6.3.2	Note 2: if ERTMS/ETCS on-board equipment is powered-up in an area not covered by the memorized or default Radio Network, attempts to register to this Radio Network will be repeated unconditionally by the Mobile Terminal(s) until either an attempt is successful or a new Radio Network identity is received from trackside or from driver, preventing Mobile Terminal(s) from registering to any unwanted Radio Network.	1
3.5.6.3.2	Note 2: if ERTMS/ETCS on-board equipment is powered-up in an area not covered by the memorized or default Radio Network, attempts to register to this Radio Network will be repeated unconditionally by the Mobile Terminal(s) until either an attempt is successful or a new Radio Network identity is received from trackside or from driver, preventing Mobile Terminal(s) from registering to any unwanted Radio Network.	mobileSWCmd registeringToTheRadioNetwork of
3.5.6.3.2	Note 2: if ERTMS/ETCS on-board equipment is powered-up in an area not covered by the memorized or default Radio Network, attempts to register to this Radio Network will be repeated unconditionally by the Mobile Terminal(s) until either an attempt is successful or a new Radio Network identity is received from trackside or from driver, preventing Mobile Terminal(s) from registering to any unwanted Radio Network.	newRadioNetworkIDReceivedFromTracksideOr Driver of registeringToTheRadioNetwork
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils	mobileHWAction_Type

Upstream	Text	Downstream
	the following conditions:	
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils the following conditions:	mobileHWCmd_Type
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils the following conditions:	mobileHWConnectionStatus_Type
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils the following conditions:	mobileHWStatus_Type
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils the following conditions:	mobileHWCmd managementOfRadioCommunication of
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils the following conditions:	radioNetworkMobile
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils the following conditions:	mobileSWCmd of radioNetworkMobile
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils the following conditions:	mobileHWCmd of radioNetworkMobile
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils	mobileSWStatus of radioNetworkMobile

Upstream	Text	Downstream
	the following conditions:	
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils the following conditions:	registeringToTheRadioNetwork
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils the following conditions:	mobileSWCmd of registeringToTheRadioNetwork
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils the following conditions:	mobileHWCmd of registeringToTheRadioNetwork
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils the following conditions:	mobileSWStatus of registeringToTheRadioNetwork
3.5.6.5	On reception of the trackside order, ERTMS/ETCS on-board equipment shall immediately order the Radio Network registration of each Mobile Terminal that fulfils the following conditions:	orderTheRegistrationOfEachMobile of registeringToTheRadioNetwork
3.5.6.6	If a Mobile Terminal is not currently registered to the Radio Network ordered by trackside and if one of the conditions b) or c) is not fulfilled, ERTMS/ETCS on-board equipment shall initiate the Radio Network registration once communication session is terminated and safe radio connection is released.	registeringToTheRadioNetwork
3.5.6.6	If a Mobile Terminal is not currently registered to the Radio Network ordered by trackside and if one of the conditions b) or c) is not fulfilled, ERTMS/ETCS on-board equipment shall initiate the Radio Network registration once communication session is terminated and safe radio connection is released.	registrationOrderFromTracksideCancelled of registeringToTheRadioNetwork

Upstream	Text	Downstream
3.5.6.6	If a Mobile Terminal is not currently registered to the Radio Network ordered by trackside and if one of the conditions b) or c) is not fulfilled, ERTMS/ETCS on-board equipment shall initiate the Radio Network registration once communication session is terminated and safe radio connection is released.	orderTheRegistrationOfEachMobile registeringToTheRadioNetwork of
3.5.6.7	If no Mobile Terminal is duly registered to a Radio Network, any order to contact an RBC or an RIU received from trackside shall be rejected by ERTMS/ETCS on-board equipment.	registeringToTheRadioNetwork
3.5.6.7	If no Mobile Terminal is duly registered to a Radio Network, any order to contact an RBC or an RIU received from trackside shall be rejected by ERTMS/ETCS on-board equipment.	rejectOrderToContactRBC_or_RIU registeringToTheRadioNetwork of
3.5.7.1	The ERTMS/ETCS on-board equipment shall inform the driver about the status of the safe radio connection. To that purpose, the following indication statuses of the safe radio connection are defined: "No Connection", "Connection Lost/Set-Up failed", "Connection Up".	safeRadioConnectionStatus_Type
3.5.7.1	The ERTMS/ETCS on-board equipment shall inform the driver about the status of the safe radio connection. To that purpose, the following indication statuses of the safe radio connection are defined: "No Connection", "Connection Lost/Set-Up failed", "Connection Up".	safeRadioConnectionStatus_toDriver managementOfRadioCommunication of
3.5.7.1	The ERTMS/ETCS on-board equipment shall inform the driver about the status of the safe radio connection. To that purpose, the following indication statuses of the safe radio connection are defined: "No Connection", "Connection Lost/Set-Up failed", "Connection Up".	connectionStatus_ofAcceptingRBC RBCTransition_forSafeRadioConnectionIndicati on of
3.5.7.1	The ERTMS/ETCS on-board equipment shall inform the driver about the status of the safe radio connection. To that purpose, the following indication statuses of the safe radio connection are defined: "No Connection",	connectionStatus_ofHandingOverRBC RBCTransition_forSafeRadioConnectionIndicati on of

Upstream	Text	Downstream
	"Connection Lost/Set-Up failed", "Connection Up".	
3.5.7.1	The ERTMS/ETCS on-board equipment shall inform the driver about the status of the safe radio connection. To that purpose, the following indication statuses of the safe radio connection are defined: "No Connection", "Connection Lost/Set-Up failed", "Connection Up".	connectionStatus of RBCTransition_forSafeRadioConnectionIndication
3.5.7.1	The ERTMS/ETCS on-board equipment shall inform the driver about the status of the safe radio connection. To that purpose, the following indication statuses of the safe radio connection are defined: "No Connection", "Connection Lost/Set-Up failed", "Connection Up".	connectionStatus of safeRadioConnectionIndication
3.5.7.1	The ERTMS/ETCS on-board equipment shall inform the driver about the status of the safe radio connection. To that purpose, the following indication statuses of the safe radio connection are defined: "No Connection", "Connection Lost/Set-Up failed", "Connection Up".	connectionStatus_SM
3.5.7.2	In addition, the ERTMS/ETCS on-board equipment shall use a "connection status" timer (see Appendix A.3.1), in order to manage properly the transitions to the indication status "Connection Lost/Set-Up failed".	connectionStatusTimerInterval of managementOfRadioCommunication
3.5.7.2	In addition, the ERTMS/ETCS on-board equipment shall use a "connection status" timer (see Appendix A.3.1), in order to manage properly the transitions to the indication status "Connection Lost/Set-Up failed".	safeRadioConnectionIndication
3.5.7.2	In addition, the ERTMS/ETCS on-board equipment shall use a "connection status" timer (see Appendix A.3.1), in order to manage properly the transitions to the indication status "Connection Lost/Set-Up failed".	connectionStatusTimerInterval of safeRadioConnectionIndication
3.5.7.2.1	Note: The purpose of the "connection status" timer is to avoid distracting the driver for any short disturbance of the safe radio connection.	safeRadioConnectionIndication
3.5.7.3	The ERTMS/ETCS on-board equipment shall start the "connection status" timer as soon as the first request to	firstRequestToSetupASafeRadioConnection of

Upstream	Text	Downstream
	set-up a safe radio connection with the relevant RBC/RIU is sent:	establish_a_CommunicationSession
3.5.7.3	The ERTMS/ETCS on-board equipment shall start the "connection status" timer as soon as the first request to set-up a safe radio connection with the relevant RBC/RIU is sent:	sFirstRequestToSetupASafeRadioConnection
3.5.7.3	The ERTMS/ETCS on-board equipment shall start the "connection status" timer as soon as the first request to set-up a safe radio connection with the relevant RBC/RIU is sent:	firstRequestToSetupASafeRadioConnection of maintaining_a_CommunicationSession
3.5.7.3	The ERTMS/ETCS on-board equipment shall start the "connection status" timer as soon as the first request to set-up a safe radio connection with the relevant RBC/RIU is sent:	sStartToTryToSetupASafeRadioConnection
3.5.7.3	The ERTMS/ETCS on-board equipment shall start the "connection status" timer as soon as the first request to set-up a safe radio connection with the relevant RBC/RIU is sent:	firstRequestToSetupASafeRadioConnection of managementOfRadioCommunication
3.5.7.3	The ERTMS/ETCS on-board equipment shall start the "connection status" timer as soon as the first request to set-up a safe radio connection with the relevant RBC/RIU is sent:	safeRadioConnectionIndication
3.5.7.3	The ERTMS/ETCS on-board equipment shall start the "connection status" timer as soon as the first request to set-up a safe radio connection with the relevant RBC/RIU is sent:	firstRequestToSetupASafeRadioConnection_fro mEstablishing of safeRadioConnectionIndication
3.5.7.3	The ERTMS/ETCS on-board equipment shall start the "connection status" timer as soon as the first request to set-up a safe radio connection with the relevant RBC/RIU is sent:	firstRequestToSetupASafeRadioConnection_fro mMaintaining of safeRadioConnectionIndication
3.5.7.4	If the "connection status" timer is ongoing, it shall be stopped if the requests to set-up a safe radio connection	requestsToSetupTheSafeRadioConnectionStop ped of establish_a_CommunicationSession

Upstream	Text	Downstream
	are stopped with the relevant RBC/RIU.	
3.5.7.4	If the "connection status" timer is ongoing, it shall be stopped if the requests to set-up a safe radio connection are stopped with the relevant RBC/RIU.	requestsToSetupTheSafeRadioConnectionStopped of maintaining_a_CommunicationSession
3.5.7.4	If the "connection status" timer is ongoing, it shall be stopped if the requests to set-up a safe radio connection are stopped with the relevant RBC/RIU.	requestsToSetupASafeRadioConnectionAreStopped of safeRadioConnectionIndication
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	finalAttemptToSetupTheSafeRadioConnectionFailed of establish_a_CommunicationSession
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	sfinalAttemptToSetupTheSafeRadioConnectionFailed
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	finalAttemptToSetupTheSafeRadioConnectionFailed of maintaining_a_CommunicationSession
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	startOfMissionProcedureIsGoingOn of managementOfRadioCommunication
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	safeRadioConnectionIndication

Upstream	Text	Downstream
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	finalAttemptToSetupTheSafeRadioConnectionFailed of safeRadioConnectionIndication
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	requestsToSetupASafeRadioConnectionAreStopped_unsuccessfullReason of safeRadioConnectionIndication
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	safeRadioConnection_Lost of safeRadioConnectionIndication
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	safeRadioConnection_Released of safeRadioConnectionIndication
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	safeRadioConnection_Setup of safeRadioConnectionIndication
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	startOfMissionProcedureIsGoingOn of safeRadioConnectionIndication
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	trainfrontIsInsideAnAnnouncedRadioHole of safeRadioConnectionIndication

Upstream	Text	Downstream
	(see section 4.6.1 for details about the symbols).	
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	condition_ID_1 safeRadioConnectionIndication of
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	condition_ID_2 safeRadioConnectionIndication of
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	condition_ID_3 safeRadioConnectionIndication of
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	condition_ID_4 safeRadioConnectionIndication of
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	condition_ID_5 safeRadioConnectionIndication of
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	condition_ID_6 safeRadioConnectionIndication of
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the	condition_ID_7 safeRadioConnectionIndication of

Upstream	Text	Downstream
	safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	
3.5.7.5	The ERTMS/ETCS on-board equipment shall execute the transitions between the different indication statuses of the safe radio connection with the relevant RBC/RIU as described in Table 1 according to the conditions in Table 2 (see section 4.6.1 for details about the symbols).	connectionStatusTimerExpired of safeRadioConnectionIndication
3.5.7.6	For the case of an RBC/RBC transition, the safe radio connection indicated to the driver shall switch from the indication status of the safe radio connection with the Handing over RBC to the one with the Accepting RBC as soon as one of the following conditions is met:	RBCTransition_forSafeRadioConnectionIndication
3.5.7.6	For the case of an RBC/RBC transition, the safe radio connection indicated to the driver shall switch from the indication status of the safe radio connection with the Handing over RBC to the one with the Accepting RBC as soon as one of the following conditions is met:	acceptingRBC_becomesTheSupervisingRBC of RBCTransition_forSafeRadioConnectionIndication
3.5.7.6	For the case of an RBC/RBC transition, the safe radio connection indicated to the driver shall switch from the indication status of the safe radio connection with the Handing over RBC to the one with the Accepting RBC as soon as one of the following conditions is met:	minimumSafeRearEndOfTheTrainHasCrossedTheBorder of RBCTransition_forSafeRadioConnectionIndication
3.5.7.6	For the case of an RBC/RBC transition, the safe radio connection indicated to the driver shall switch from the indication status of the safe radio connection with the Handing over RBC to the one with the Accepting RBC as soon as one of the following conditions is met:	safeRadioConnectionIsReleasedWithTheHandingoverRBC of RBCTransition_forSafeRadioConnectionIndication

5. Management of Radio Communication Model covers SUBSET-026-3 v330_

Coverage ratio: 3%

Downstream	Text	Upstream
cMaxNoOfConnectionRetries	3.5.3.7 a)	3.5.3.7
cPositionReoport_MaxNoOfRepetitions	3.5.5.1e)	3.5.5.1
cPositionReportRepetitionInterval	3.5.5.1e)	3.5.5.1
cRadioConnectionReestablishingTimeout	3.5.4.1, 3.5.4.2.1	3.5.4.1
cRadioConnectionReestablishingTimeout	3.5.4.1, 3.5.4.2.1	3.5.4.2
cRadioConnectionReestablishingTimeout	3.5.4.1, 3.5.4.2.1	3.5.4.2.1
cRBC_id_contactLastKnownRBC	3.5.3.13: Order to contact the last known RBC 3.5.3.16, Option 1: Contact the last known RBC	3.5.3.13
cTerminationOfCommunicationSession_MaxNoOfRepetitions	3.5.5.3.1	3.5.5.3.1
cTerminationOfCommunicationSessionRepetitionInterval	3.5.5.3.1	3.5.5.3.1
mobileHWAction_Type	3.5.6, 3.5.6.3.2, 3.5.6.5, 3.5.6.5:Commands to the mobile hardware	3.5.6.5
mobileHWAction_Type	3.5.6, 3.5.6.3.2, 3.5.6.5, 3.5.6.5:Commands to the mobile hardware	3.5.6.3.2
mobileHWCmd_Type	3.5.6, 3.5.6.3.2, 3.5.6.5, 3.5.6.5:Commands to the mobile hardware	3.5.6.3
mobileHWCmd_Type	3.5.6, 3.5.6.3.2, 3.5.6.5, 3.5.6.5:Commands to the mobile hardware	3.5.6.3.2
mobileHWCmd_Type	3.5.6, 3.5.6.3.2, 3.5.6.5, 3.5.6.5:Commands to the mobile hardware	3.5.6.5
mobileHWConnectionStatus_Type	3.5.6.5	3.5.6.5
mobileHWStatus_Type	3.5.6.5	3.5.6.5
morc_RBC_action_Type	3.5.3.5 a)	3.5.3.5
orderToContactAnAcceptingRBC_Type	3.5.3.5.3	3.5.3.5.3

Downstream		Text	Upstream
orderToContactAnRBC_Type		3.5.3.5	3.5.3.5
orderToContactARadioInfillUnit_Type		3.5.3.6	3.5.3.6
radioNetworkID_Type		3.5.6.2	3.5.6.2
rbc_TransitionOrder_Type			3.5.3.5.3
safeRadioConnectionStatus_Type		3.5.7.1	3.5.7.1
validRadioNetworkID_Type		3.5.6.2	3.5.6.2
connectionSuccessfullyEstablished establish_a_CommunicationSession	of	3.5.3.7 a) Safe Radio Connection successfully established	3.5.3.7
endOfMissionIsPerformed establish_a_CommunicationSession	of	3.5.3.7 a)	3.5.3.7
initiationOfACommunicationSession_receivedFr omTrackside establish_a_CommunicationSession	of	3.5.3.10 b)	3.5.3.10
isPartOfAnOngoingStartOfMissionProcedure establish_a_CommunicationSession	of	3.5.3.7	3.5.3.7
orderDoesNotRequestToContactAnAcceptingR BC of establish_a_CommunicationSession		3.5.3.7 a)	3.5.3.7
orderToEstablishACommunicationSession_from OBU of establish_a_CommunicationSession		3.5.3.7 a)	3.5.3.7
orderToEstablishACommunicationSession_from Trackside establish_a_CommunicationSession	of	3.5.3.7 a)	3.5.3.7
settingUpSafeConnectionHasFailed establish_a_CommunicationSession	of	3.5.3.7 a)	3.5.3.7
systemVersionFromTracksideSupported establish_a_CommunicationSession	of	3.5.3.8 a)	3.5.3.8
systemVersionReceived establish_a_CommunicationSession	of	3.5.3.8 a)	3.5.3.8

Downstream	Text	Upstream
trainPassesA_RBC_RBC_border_WithItsFrontEnd of establish_a_CommunicationSession	3.5.3.7 a)	3.5.3.7
trainPassesALevelTransitionBorder of establish_a_CommunicationSession	3.5.3.7 a) trainPassesALevelTransitionBorder with it's front end	3.5.3.7
finalAttemptToSetupTheSafeRadioConnectionFailed of establish_a_CommunicationSession	3.5.7.5[1]	3.5.7.5
firstRequestToSetupASafeRadioConnection of establish_a_CommunicationSession	3.5.7.3a)	3.5.7.3
requestsToSetupTheSafeRadioConnectionStopped of establish_a_CommunicationSession	3.5.7.4	3.5.7.4
sendASessionEstablishedReportToTrackside of establish_a_CommunicationSession	3.5.3.10 c) 3.5.3.8 a) sSendMessageEstablishedReport to trackside	3.5.3.8
sendASessionEstablishedReportToTrackside of establish_a_CommunicationSession	3.5.3.10 c) 3.5.3.8 a) sSendMessageEstablishedReport to trackside	3.5.3.10
sendMessage_NoCompatibleVersionSupported of establish_a_CommunicationSession	3.5.3.8 b)	3.5.3.8
sendTheMessageInitiationOfCommunicationSessionToTrackside of establish_a_CommunicationSession	3.5.3.7 b)	3.5.3.7
terminateTheCommunicationSession of establish_a_CommunicationSession	3.5.3.8 b)	3.5.3.8
sfinalAttemptToSetupTheSafeRadioConnectionFailed	3.5.7.5[1]	3.5.7.5
sFirstRequestToSetupASafeRadioConnection	3.5.7.3a)	3.5.7.3
sSendASessionEstablishedReportToTrackside	3.5.3.10 c)	3.5.3.10
sSendMessage_NoCompatibleVersionSupported	3.5.3.8 b)	3.5.3.8

Downstream	Text	Upstream
sSendMessageEstablishedReport	3.5.3.8 a) sSendMessageEstablishedReport to trackside	3.5.3.8
sSendTheMessageInitiationOfCommunicationSessionToTrackside	3.5.3.7 b)	3.5.3.7
sTerminateTheCommunicationSession	3.5.3.8 b)	3.5.3.8
EstablishmentOfACommunicationSession_SM	3.5.3.7	3.5.3.7
CompatibleSystemVersionSupported	3.5.3.8 a) Communication Session established and SystemVersionFromTrackside supported by the OBU	3.5.3.8
ConsiderTheCommunicationSessionEstablished	3.5.3.10 c)	3.5.3.10
Idle		3.5.3.10
NoCompatibleSystemVersionSupported	3.5.3.8 b) Communication Session established and SystemVersionFromTrackside not supported by the OBU	3.5.3.8
noOfConnectionRetriesExceeded of RequestSetupOfASafeRadioConnection_initiatedByOBU	3.5.3.7 a)	3.5.3.7
RequestConnectionWithTrackSide_SM	3.5.3.7	3.5.3.7
TryToEstablishConnection_isPartOfStartOfMission	3.5.3.7 a)	3.5.3.7
RequestSetupOfASafeRadioConnection_initiatedByTrackside	3.5.3.10 a)	3.5.3.10
WaitForMessage_InitiationOfCommunicationSession_FromTrackside	3.5.3.10 b) Wait for message InitiationOfCommunicationSession from trackside.	3.5.3.10
WaitForSystemVersionFromTrackSide	3.5.3.7 c), 3.5.3.8	3.5.3.7
WaitForSystemVersionFromTrackSide	3.5.3.7 c), 3.5.3.8	3.5.3.8

Downstream	Text	Upstream
WaitTil_CommunicationSessionTerminated	3.5.3.8 b) Communication Session established and waiting til communication session terminates	3.5.3.8
evaluateOrderToContactAnRBD	Subset 096, REQ 3.5.3.13, 3.5.3.16, 3.5.3.13.1, 3.5.3.14, 3.5.3.15: Evaluates the order to contact a RBC, i. e. establish, maintain or terminate a communication session.	3.5.3.13
evaluateOrderToContactAnRBD	Subset 096, REQ 3.5.3.13, 3.5.3.16, 3.5.3.13.1, 3.5.3.14, 3.5.3.15: Evaluates the order to contact a RBC, i. e. establish, maintain or terminate a communication session.	3.5.3.14
evaluateOrderToContactAnRBD	Subset 096, REQ 3.5.3.13, 3.5.3.16, 3.5.3.13.1, 3.5.3.14, 3.5.3.15: Evaluates the order to contact a RBC, i. e. establish, maintain or terminate a communication session.	3.5.3.15
evaluateOrderToContactAnRBD	Subset 096, REQ 3.5.3.13, 3.5.3.16, 3.5.3.13.1, 3.5.3.14, 3.5.3.15: Evaluates the order to contact a RBC, i. e. establish, maintain or terminate a communication session.	3.5.3.13.1
evaluateOrderToContactAnRBD	Subset 096, REQ 3.5.3.13, 3.5.3.16, 3.5.3.13.1, 3.5.3.14, 3.5.3.15: Evaluates the order to contact a RBC, i. e. establish, maintain or terminate a communication session.	3.5.3.16
diagram_evaluateOrderToContactAnRBD_1		3.5.3.13.1
atStartOfMission of Initiate_a_Session	Start of Mission 3.5.3.4. a)	3.5.3.4
initiateEstablishingNewSessionRequest Initiate_a_Session of	3.5.3.5.2	3.5.3.5.2
initiateRequest_fromOnboardEquipment Initiate_a_Session of	3.5.3.1: Initiate Request from ERTMS/ETCS on-board equipment	3.5.3.1
modeChangeHasToBeReportedToRBC Initiate_a_Session of	3.5.3.4 c)	3.5.3.4

Downstream		Text	Upstream
communicationSessionInitiatedByOBU_ Initiate_a_Session	of		3.5.3.7
diagram_Initiate_a_Session_1			3.5.3.4
initiateTerminatingASession		Subset 096, REQ 3.5.5.1 Initiates and processes the termination of a communication session.	3.5.5.1
driverClosesTheDeskduringStartOfMission initiateTerminatingASession	of	3.5.5.1d)	3.5.5.1
endOfMissionIsExecuted initiateTerminatingASession	of	3.5.5.1f)	3.5.5.1
errorConditionRequiringTerminationDetected initiateTerminatingASession	of	3.5.5.1b)	3.5.5.1
isInCommunicationSessionWithAnRIU initiateTerminatingASession	of	3.5.5.1f)	3.5.5.1
level_1_isLeft of initiateTerminatingASession		3.5.5.1f)	3.5.5.1
orderReceivedFromTrackside initiateTerminatingASession	of	3.5.5.1a)	3.5.5.1
receivedOrderToTerminateTheSession initiateTerminatingASession	of	3.5.5.1e)	3.5.5.1
trainExitedFromAnRBCArea initiateTerminatingASession	of	3.5.5.1e)	3.5.5.1
trainIsRejectedByRBC_duringStartOfMission initiateTerminatingASession	of	3.5.5.1c)	3.5.5.1
sendAPositionReport initiateTerminatingASession	of	3.5.5.1e)	3.5.5.1
definedNumberOfRepetitionsHasBeenReached of initiateTerminatingASession		3.5.5.1e)	3.5.5.1
noReplyReceivedAfterLastRepetition initiateTerminatingASession	of	3.5.5.1e)	3.5.5.1

Downstream		Text	Upstream
orderToTerminateTheSessionIsReceived initiateTerminatingASession	of	3.5.5.1e)	3.5.5.1
sSendAPositionReport		3.5.5.1e)	3.5.5.1
sTerminateTheCommunicationSession		3.5.5.1e)	3.5.5.1
TrainExitedFromRBCArea_SM		3.5.5.1e	3.5.5.1
WaitForOrderToTerminateTheSession			3.5.5.1
diagram_WaitForOrderToTerminateTheSession _1			3.5.5.1
communicationSessionEstablished maintaining_a_CommunicationSession	of	3.5.4.1	3.5.4.1
disconnectionHasNotBeenOrdered maintaining_a_CommunicationSession	of	3.5.4.1	3.5.4.1
lossOfTheSafeRadioConnection maintaining_a_CommunicationSession	of	3.5.4.1	3.5.4.1
safeRadioConnectionReestablished maintaining_a_CommunicationSession	of	3.5.4.1	3.5.4.1
trainFrontInsideInAnAnnouncedRadioHole maintaining_a_CommunicationSession	of	3.5.4.4	3.5.4.4
finalAttemptToSetupTheSafeRadioConnectionF ailed of maintaining_a_CommunicationSession		3.5.7.5[6]	3.5.7.5
firstRequestToSetupASafeRadioConnection maintaining_a_CommunicationSession	of	3.5.7.3b)	3.5.7.3
requestsToSetupTheSafeRadioConnectionStop ped of maintaining_a_CommunicationSession		3.5.7.4	3.5.7.4
sStartToTryToSetupASafeRadioConnection		3.5.7.3b)	3.5.7.3
CommunicationSessionEstablished		3.5.4.1	3.5.4.1
CommunicationSessionEstablished		3.5.4.1	3.5.4.2.1

Downstream	Text	Upstream
ConnecctionLostInAnnouncedRadioHole	3.5.4.4	3.5.4.4
1	-- 3.5.4.4 if not trainFrontInsideInAnAnnouncedRadioHole do let emit 'sStart_RadioConnectionLostTimer; emit 'sStartToTryToSetupASafeRadioConnection; tel restart ConnectionLost	3.5.4.4
1	-- 3.5.4.3 if safeRadioConnectionReestablished restart SafeRadio_connected	3.5.4.3
2	-- 3.5.4.2.1, 3.5.4.3 if radioConnectionLostTimer_expired restart RadioConnectionLostTimerExpired	3.5.4.2.1
2	-- 3.5.4.2.1, 3.5.4.3 if radioConnectionLostTimer_expired restart RadioConnectionLostTimerExpired	3.5.4.3
1	-- 3.5.4.1 if lossOfTheSafeRadioConnection and disconnectionHasNotBeenOrdered do let emit 'sStart_RadioConnectionLostTimer; emit 'sStartToTryToSetupASafeRadioConnection; tel restart ConnectionLost	3.5.4.1
1	-- 3.5.4.3 do let emit 'sInformTheDriverThatNoConnectionWasSetup; emit 'sFinalAttemptToSetupTheSafeRadioConnectionFailed; tel	3.5.4.3

Downstream		Text	Upstream
		restart CommunicationSessionNotEstablished	
1		-- 3.5.4.1 if communicationSessionEstablished restart CommunicationSessionEstablished	3.5.4.1
acknowledgementOfTerminationOfCommunicationSessionReceived managementOfRadioCommunication	of	3.5.5.2c)	3.5.5.2
afterDriverEntryOfANewRadioNetworkID managementOfRadioCommunication	of	3.5.6.1b), 3.5.6.2 Strobe input, activated when the driver sets the Radio Network ID	3.5.6.2
afterDriverEntryOfANewRadioNetworkID managementOfRadioCommunication	of	3.5.6.1b), 3.5.6.2 Strobe input, activated when the driver sets the Radio Network ID	3.5.6.1
atPowerUp managementOfRadioCommunication	of	3.5.6.1a)	3.5.6.1
atStartOfMission managementOfRadioCommunication	of	Start of Mission 3.5.3.4. a)	3.5.3.4
driverClosesTheDeskduringStartOfMission managementOfRadioCommunication	of	3.5.5.1d)	3.5.5.1
driverHasManuallyChangedLevel managementOfRadioCommunication	of	3.5.3.4 d)	3.5.3.4
endOfMissionIsExecuted managementOfRadioCommunication	of	3.5.5.1f)	3.5.5.1
errorConditionRequiringTerminationDetected managementOfRadioCommunication	of	3.5.5.1b)	3.5.5.1
isInCommunicationSessionWithAnRIU managementOfRadioCommunication	of	3.5.5.1f)	3.5.5.1
isPartOfAnOngoingStartOfMissionProcedure managementOfRadioCommunication	of	3.5.3.7	3.5.3.7
M_LEVEL	of	3.5.6.1b)	3.5.6.1

Downstream		Text	Upstream
managementOfRadioCommunication		7.5.1.65 M_LEVEL	
modeChangeHasToBeReportedToRBC managementOfRadioCommunication	of	3.5.3.4 c)	3.5.3.4
OBU_hasToEstablishANewSession managementOfRadioCommunication	of	3.5.3.5.2	3.5.3.5.2
orderDoesNotRequestToContactAnAcceptingRBC of managementOfRadioCommunication		3.5.3.7 a)	3.5.3.7
orderReceivedFromRadio_InfillUnit managementOfRadioCommunication	of	3.5.3.2	3.5.3.2
orderReceivedFromRBC managementOfRadioCommunication	of	3.5.3.1	3.5.3.1
orderReceivedFromTrackside managementOfRadioCommunication	of	3.5.5.1a)	3.5.5.1
orderToEstablishACommunicationSession_from OBU of managementOfRadioCommunication		3.5.3.7 a)	3.5.3.7
RadioNetworkID_fromTrackside managementOfRadioCommunication	of	3.5.6.1c), 3.5.6.2	3.5.6.1
RadioNetworkID_fromTrackside managementOfRadioCommunication	of	3.5.6.1c), 3.5.6.2	3.5.6.2
startOfMissionProcedureCompleted managementOfRadioCommunication	of	3.5.3.4 e)	3.5.3.4
startOfMissionProcedureIsGoingOn managementOfRadioCommunication	of	3.5.7.5 [1]	3.5.7.5
systemVersionFromTracksideSupported managementOfRadioCommunication	of	3.5.3.8 a)	3.5.3.8
systemVersionReceived managementOfRadioCommunication	of	3.5.3.8 a)	3.5.3.8
trainExitedFromAnRBCArea managementOfRadioCommunication	of	3.5.5.1e)	3.5.5.1

Downstream	Text	Upstream
trainFrontInsideInAnAnnouncedRadioHole of managementOfRadioCommunication	3.5.4.4	3.5.4.4
trainFrontReachesEndOfAnnouncedRadioHole of managementOfRadioCommunication	3.5.3.4e)	3.5.3.4
trainIsRejectedByRBC_duringStartOfMission of managementOfRadioCommunication	3.5.5.1c)	3.5.5.1
trainPassesA_RBC_RBC_border_WithItsFrontEnd of managementOfRadioCommunication	3.5.3.7 a)	3.5.3.7
trainPassesALevelTransitionBorder of managementOfRadioCommunication	3.5.3.7 a) trainPassesALevelTransitionBorder with it's front end	3.5.3.7
triggerDecisionThatNoRadioNetworkIDAvailable of managementOfRadioCommunication	3.5.6.3	3.5.6.3
connectionStatusTimerInterval of managementOfRadioCommunication	3.5.7.2	3.5.7.2
RadioNetworkID_Default of managementOfRadioCommunication	3.5.6.3	3.5.6.3
mobileHWCmd of managementOfRadioCommunication	3.5.6, 3.5.6.3.2, 3.5.6.5, 3.5.6.5:Commands to the mobile hardware	3.5.6.3.2
mobileHWCmd of managementOfRadioCommunication	3.5.6, 3.5.6.3.2, 3.5.6.5, 3.5.6.5:Commands to the mobile hardware	3.5.6.5
orderTheRegistrationOfItsConnectedMobiles of managementOfRadioCommunication	3.5.6.1	3.5.6.1
safeRadioConnectionStatus_toDriver of managementOfRadioCommunication	3.5.7.1	3.5.7.1
sendAPositionReport of managementOfRadioCommunication	3.5.5.1e)	3.5.5.1
sendASessionEstablishedReportToTrackside of managementOfRadioCommunication	3.5.3.10 c) 3.5.3.8 a) sSendMessageEstablishedReport to trackside	3.5.3.8

Downstream	Text	Upstream
sendASessionEstablishedReportToTrackside of managementOfRadioCommunication	3.5.3.10 c) 3.5.3.8 a) sSendMessageEstablishedReport to trackside	3.5.3.10
sendATerminationOfCommunicationMessage of managementOfRadioCommunication	3.5.5.2a), 3.5.5.3.1	3.5.5.2
sendMessage_NoCompatibleVersionSupported of managementOfRadioCommunication	3.5.3.8 b)	3.5.3.8
sendTheMessageInitiationOfCommunicationSe ssionToTrackside of managementOfRadioCommunication	3.5.3.7 b)	3.5.3.7
firstRequestToSetupASafeRadioConnection of managementOfRadioCommunication	3.5.7.3a), 3.5.7.3b)	3.5.7.3
radioNetworkMobile	Subset 096, REQ 3.5.6.3.2, 3.5.6.5 Controls the registration to the radio network for a single mobile terminal.	3.5.6.3.2
radioNetworkMobile	Subset 096, REQ 3.5.6.3.2, 3.5.6.5 Controls the registration to the radio network for a single mobile terminal.	3.5.6.5
mobileSWCmd of radioNetworkMobile	Cmd inputs to this operator 3.5.6.5: includes the order to use and occupy this mobile for a (established) communication session	3.5.6.5
mobileHWCmd of radioNetworkMobile	3.5.6, 3.5.6.3.2, 3.5.6.5, 3.5.6.5:Commands to the mobile hardware	3.5.6.3.2
mobileHWCmd of radioNetworkMobile	3.5.6, 3.5.6.3.2, 3.5.6.5, 3.5.6.5:Commands to the mobile hardware	3.5.6.5
mobileSWStatus of radioNetworkMobile	SW-Status of the mobile: 3.5.6.5 Indicates, that this mobile is in use for an Established Communication Session	3.5.6.5

Downstream	Text	Upstream
RegisteringToTheRadioNetwork	3.5.6.3.2: attempts to register to this Radio Network	3.5.6.3.2
1	-- 3.5.6.3.2: attempts to register to this Radio Network if sw_cmd = mswa_register do emit 'sHwRegister; restart RegisteringToTheRadioNetwork	3.5.6.3.2
RBCTransition_forSafeRadioConnectionIndication	Subset 096, REQ 3.5.7.6 Manages the switch of the indication status in the case of an RBC/RBC transition	3.5.7.6
acceptingRBC_becomesTheSupervisingRBC of RBCTransition_forSafeRadioConnectionIndication	3.5.7.6a)	3.5.7.6
connectionStatus_ofAcceptingRBC of RBCTransition_forSafeRadioConnectionIndication	3.5.7.1	3.5.7.1
connectionStatus_ofHandingOverRBC of RBCTransition_forSafeRadioConnectionIndication	3.5.7.1	3.5.7.1
minimumSafeRearEndOfTheTrainHasCrossedTheBorder of RBCTransition_forSafeRadioConnectionIndication	3.5.7.6b)	3.5.7.6
safeRadioConnectionIsReleasedWithTheHandingoverRBC of RBCTransition_forSafeRadioConnectionIndication	3.5.7.6b)	3.5.7.6
connectionStatus of RBCTransition_forSafeRadioConnectionIndication	3.5.7.1	3.5.7.1
registeringToTheRadioNetwork	Subset 096, REQ 3.5.6 Implements the registration to the radio network.	3.5.6.1
registeringToTheRadioNetwork	Subset 096, REQ 3.5.6	3.5.6.2

Downstream		Text	Upstream
		Implements the registration to the radio network.	
registeringToTheRadioNetwork		Subset 096, REQ 3.5.6 Implements the registration to the radio network.	3.5.6.5
registeringToTheRadioNetwork		Subset 096, REQ 3.5.6 Implements the registration to the radio network.	3.5.6.6
registeringToTheRadioNetwork		Subset 096, REQ 3.5.6 Implements the registration to the radio network.	3.5.6.7
afterDriverEntryOfANewRadioNetworkID registeringToTheRadioNetwork	of	3.5.6.1b), 3.5.6.2 Strobe input, activated when the driver sets the Radio Network ID	3.5.6.1
afterDriverEntryOfANewRadioNetworkID registeringToTheRadioNetwork	of	3.5.6.1b), 3.5.6.2 Strobe input, activated when the driver sets the Radio Network ID	3.5.6.2
atPowerOff of registeringToTheRadioNetwork		3.5.6.2	3.5.6.2
atPowerUp of registeringToTheRadioNetwork		3.5.6.1a)	3.5.6.1
etcs_level of registeringToTheRadioNetwork		3.5.6.1b)	3.5.6.1
mobileSWCmd registeringToTheRadioNetwork	of	Cmd inputs to this operator 3.5.6.5: includes the order to use and occupy this mobile for a (established) communication session	3.5.6.3
mobileSWCmd registeringToTheRadioNetwork	of	Cmd inputs to this operator 3.5.6.5: includes the order to use and occupy this mobile for a (established) communication session	3.5.6.3.2
mobileSWCmd registeringToTheRadioNetwork	of	Cmd inputs to this operator 3.5.6.5: includes the order to use and occupy this mobile for a (established) communication session	3.5.6.5
RadioNetworkID_fromDriver registeringToTheRadioNetwork	of	3.5.6.2	3.5.6.2

Downstream		Text	Upstream
RadioNetworkID_fromTrackside registeringToTheRadioNetwork	of	3.5.6.1c), 3.5.6.2	3.5.6.1
RadioNetworkID_fromTrackside registeringToTheRadioNetwork	of	3.5.6.1c), 3.5.6.2	3.5.6.2
RadioNetworkID_memorized registeringToTheRadioNetwork	of	3.5.6.2	3.5.6.2
registrationOrderedFromTrackside registeringToTheRadioNetwork	of	3.5.6.1.c)	3.5.6.1
registrationOrderFromTracksideCancelled registeringToTheRadioNetwork	of	3.5.6.6	3.5.6.6
triggerDecisionThatNoRadioNetworkIDAvailable of registeringToTheRadioNetwork		3.5.6.3	3.5.6.3
RadioNetworkID_Default registeringToTheRadioNetwork	of	3.5.6.3	3.5.6.3
actualRadioNetworkID registeringToTheRadioNetwork	of	3.5.6.2	3.5.6.2
memorizeTheLastRadioNetworkID registeringToTheRadioNetwork	of	3.5.6.2	3.5.6.2
mobileHWCmd registeringToTheRadioNetwork	of	3.5.6, 3.5.6.3.2, 3.5.6.5, 3.5.6.5:Commands to the mobile hardware	3.5.6.5
mobileSWStatus registeringToTheRadioNetwork	of	SW-Status of the mobile: 3.5.6.5 Indicates, that this mobile is in use for an Established Communication Session	3.5.6.5
orderTheRegistrationOfItsConnectedMobiles registeringToTheRadioNetwork	of	3.5.6.1	3.5.6.1
rejectOrderToContactRBC_or_RIU registeringToTheRadioNetwork	of	3.5.6.7	3.5.6.7

Downstream	Text	Upstream
actualRadioNetworkID_loc registeringToTheRadioNetwork	of	3.5.6.2
newRadioNetworkIDReceivedFromTracksideOr Driver of registeringToTheRadioNetwork	3.5.6.3.2	3.5.6.3.2
noValidActualRadioNetworkID_available registeringToTheRadioNetwork	of 3.5.6.3	3.5.6.3
orderTheRegistrationOfEachMobile registeringToTheRadioNetwork	of 3.5.6.5	3.5.6.1
orderTheRegistrationOfEachMobile registeringToTheRadioNetwork	of 3.5.6.5	3.5.6.5
orderTheRegistrationOfEachMobile registeringToTheRadioNetwork	of 3.5.6.5	3.5.6.6
safeRadioConnectionIndication	Subset 096, REQ 3.5.7 Controls the radio connection indication for the driver.	3.5.7.2
safeRadioConnectionIndication	Subset 096, REQ 3.5.7 Controls the radio connection indication for the driver.	3.5.7.2.1
safeRadioConnectionIndication	Subset 096, REQ 3.5.7 Controls the radio connection indication for the driver.	3.5.7.3
safeRadioConnectionIndication	Subset 096, REQ 3.5.7 Controls the radio connection indication for the driver.	3.5.7.5
finalAttemptToSetupTheSafeRadioConnectionF ailed of safeRadioConnectionIndication	3.5.7.5[1]	3.5.7.5
firstRequestToSetupASafeRadioConnection_fro mEstablishing of safeRadioConnectionIndication	3.5.7.3a)	3.5.7.3
firstRequestToSetupASafeRadioConnection_fro mMaintaining of safeRadioConnectionIndication	3.5.7.3a)	3.5.7.3
requestsToSetupASafeRadioConnectionAreSto pped of safeRadioConnectionIndication	3.5.7.4	3.5.7.4

Downstream		Text	Upstream
requestsToSetupASafeRadioConnectionAreStopped_unsuccessfullReason safeRadioConnectionIndication	of	3.5.7.5[3], 3.5.7.5[6]	3.5.7.5
safeRadioConnection_Lost safeRadioConnectionIndication	of	3.5.7.5[6], 3.5.7.5[7]	3.5.7.5
safeRadioConnection_Released safeRadioConnectionIndication	of	3.5.7.5[5]	3.5.7.5
safeRadioConnection_Setup safeRadioConnectionIndication	of	3.5.7.5[4]	3.5.7.5
startOfMissionProceduresIsGoingOn safeRadioConnectionIndication	of	3.5.7.5 [1]	3.5.7.5
trainfrontIsInsideAnAnnouncedRadioHole safeRadioConnectionIndication	of	3.5.7.5[7]	3.5.7.5
connectionStatusTimerInterval safeRadioConnectionIndication	of	3.5.7.2	3.5.7.2
connectionStatus safeRadioConnectionIndication	of	3.5.7.1	3.5.7.1
condition_ID_1 safeRadioConnectionIndication	of	3.5.7.5[1]	3.5.7.5
condition_ID_2 safeRadioConnectionIndication	of	3.5.7.5[2]	3.5.7.5
condition_ID_3 safeRadioConnectionIndication	of	3.5.7.5[3]	3.5.7.5
condition_ID_4 safeRadioConnectionIndication	of	3.5.7.5[4]	3.5.7.5
condition_ID_5 safeRadioConnectionIndication	of	3.5.7.5[5]	3.5.7.5
condition_ID_6 safeRadioConnectionIndication	of	3.5.7.5[6]	3.5.7.5

Downstream		Text	Upstream
condition_ID_7 safeRadioConnectionIndication	of	3.5.7.5[7]	3.5.7.5
connectionStatusTimerExpired safeRadioConnectionIndication	of	3.5.7.5[2]	3.5.7.5
connectionStatus_SM		3.5.7.1	3.5.7.1
terminateAndEstablishSession		Subset 096, REQ 3.5.3.5.2 Determines, if an establishing or established session has to be terminated due to a new order that request a session with a different RBC. Initiates the termination, waits til the termination is achieved and initiates the new session.	3.5.3.5.2
newOrderToEstablishASession_in terminateAndEstablishSession	of	3.5.5.1a)	3.5.5.1
OBU_hasToEstablishANewSession terminateAndEstablishSession	of	3.5.3.5.2	3.5.3.5.2
newOrderToEstablishASession_out terminateAndEstablishSession	of	3.5.5.1a)	3.5.5.1
terminating_a_CommunicationSession		Subset 096, REQ 3.5.5.2 Implements the termination of a communication session.	3.5.5.2
terminating_a_CommunicationSession		Subset 096, REQ 3.5.5.2 Implements the termination of a communication session.	3.5.5.3
acknowledgementOfTerminationOfCommunicationSessionReceived terminating_a_CommunicationSession	of	3.5.5.2c)	3.5.5.2
aSessionIsCurrentlyBeingEstablished terminating_a_CommunicationSession	of	3.5.5.7	3.5.5.7
aSessionIsEstablished terminating_a_CommunicationSession	of	3.5.5.2	3.5.5.2
establishingACommunicationSessionAborted terminating_a_CommunicationSession	of	3.5.5.7 Intended to be fed by	3.5.5.7

Downstream	Text	Upstream
	"Establishing_a_CommunicationSession".	
abortEstablishingACommunicationSession of terminating_a_CommunicationSession	3.5.5.7	3.5.5.7
ignoreMessagesFromRBC_exceptAckOfTerminationOfCommunicationSession of terminating_a_CommunicationSession	3.5.5.3.6	3.5.5.3.1
requestReleaseOfSafeRadioConnectionWithTrackside of terminating_a_CommunicationSession	3.5.5.2c)	3.5.5.2
sendATerminationOfCommunicationMessage of terminating_a_CommunicationSession	3.5.5.2a), 3.5.5.3.1	3.5.5.2
sendATerminationOfCommunicationMessage of terminating_a_CommunicationSession	3.5.5.2a), 3.5.5.3.1	3.5.5.3.1
considerTheCommunicationSessionTerminated of terminating_a_CommunicationSession	3.5.5.3.2	3.5.5.3.1
considerTheCommunicationSessionTerminated of terminating_a_CommunicationSession	3.5.5.3.2	3.5.5.3.2
initiateTerminationOfEstablishedSession of terminating_a_CommunicationSession	3.5.5.2	3.5.5.2
initiateTerminationOfEstablishedSession of terminating_a_CommunicationSession	3.5.5.2	3.5.5.7
initiateTerminationOfEstablishingSession of terminating_a_CommunicationSession	3.5.5.7	3.5.5.7
sRequestReleaseOfSafeRadioConnectionWithTrackside	3.5.5.2c)	3.5.5.2
sSendATerminationOfCommunicationMessage	3.5.5.2a), 3.5.5.3.1	3.5.5.2
sSendATerminationOfCommunicationMessage	3.5.5.2a), 3.5.5.3.1	3.5.5.3.1
TerminateTheCommunicationSession_SM	3.5.5.2	3.5.5.2
CommunicationSession_Terminated	3.5.5.3.2,	3.5.5.3.1

Downstream	Text	Upstream
CommunicationSession_Terminated	3.5.5.3.2,	3.5.5.3.2
EstablishingACommunicationSessionAborted	3.5.5.7	3.5.5.7
1	-- 3.5.5.7 if establishingACommunicationSessionAborted do emit 'sRequestReleaseOfSafeRadioConnectionWithTrackside ; restart CommunicationSession_Terminated	3.5.5.7
1	-- 3.5.5.2a) if initiateTerminationOfEstablishedSession do emit 'sSendATerminationOfCommunicationMessage; restart WaitForAcknowledgementMessage	3.5.5.2
2	-- 3.5.5.7 if initiateTerminationOfEstablishingSession do emit 'sAbortEstablishingACommunicationSession; restart EstablishingACommunicationSessionAborted	3.5.5.7
WaitForAcknowledgementMessage		3.5.5.3.1
WaitForAcknowledgementMessage		3.5.5.6
1	-- 3.5.5.2c), 3.5.5.3.2 if acknowledgementOfTerminationOfCommunicationSessionReceived or considerTheCommunicationSessionTerminated do emit 'sRequestReleaseOfSafeRadioConnectionWithTrackside ; restart CommunicationSession_Terminated	3.5.5.2
1	-- 3.5.5.2c), 3.5.5.3.2 if acknowledgementOfTerminationOfCommunicationSessionReceived or considerTheCommunicationSessionTerminated do	3.5.5.3.1

Downstream	Text	Upstream
	<pre> emit 'sRequestReleaseOfSafeRadioConnectionWithTrackside ; restart CommunicationSession_Terminated </pre>	
1	<pre> -- 3.5.5.2c), 3.5.5.3.2 if acknowledgementOfTerminationOfCommunicationSessi onReceived or considerTheCommunicationSessionTerminated do emit 'sRequestReleaseOfSafeRadioConnectionWithTrackside ; restart CommunicationSession_Terminated </pre>	3.5.5.3.2