

Model Documentation

Model Detail

This document provides a complete overview of all element details. For simpler and more focused reports, simply copy this initial template and turn off the sections not required.

System

Type:	Package
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Model
Detail:	Created on 07/03/2013. Last modified on 07/03/2013
GUID:	{03EABC91-9742-4c47-AC91-8DACD06B51D0}

System - (Package diagram)

Created By:	Bardot on 07/03/2013
Last Modified:	09/04/2013
Version:	1.0. <i>Locked</i> : False
GUID:	{9CF44F34-786B-4603-BA89-C0542A43B29D}

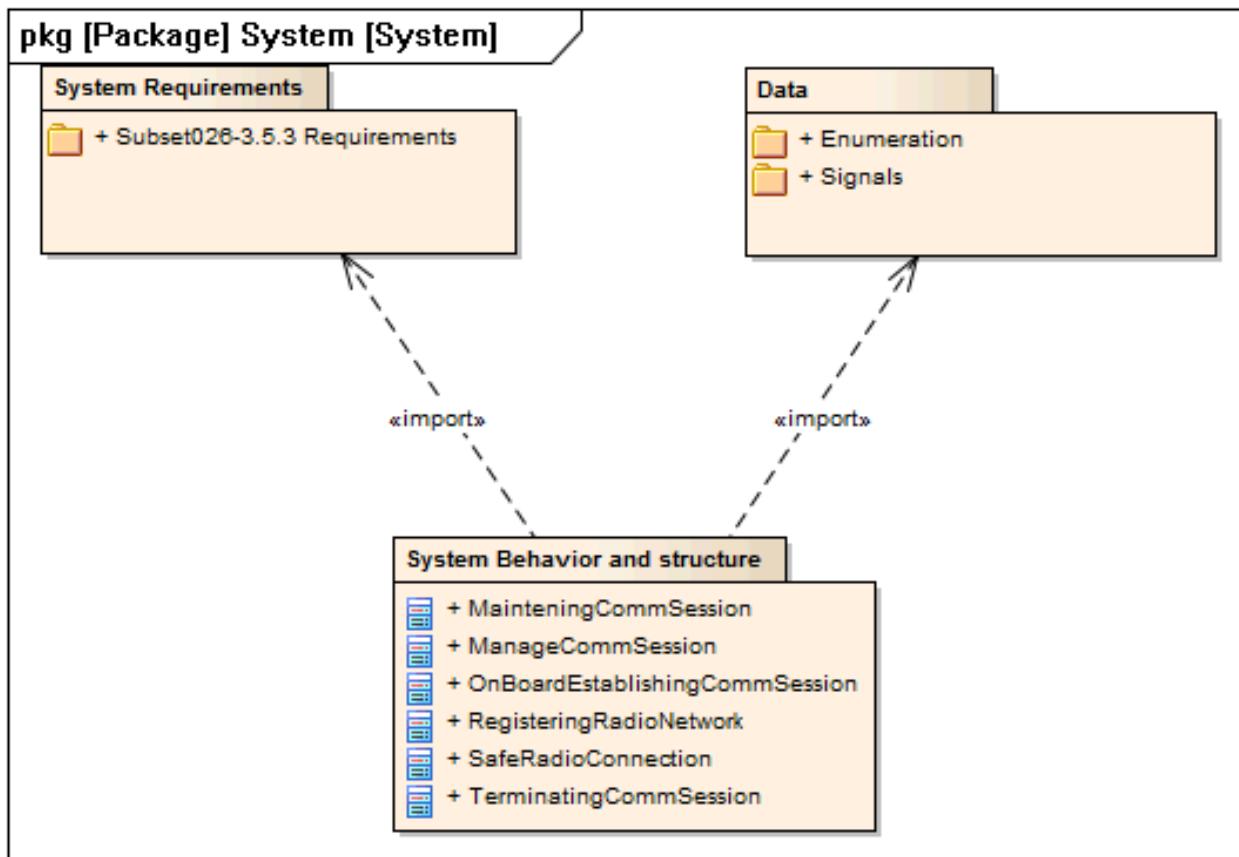


Figure: 1

Data

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System
Detail: Created on 07/03/2013. Last modified on 08/04/2013
GUID: {67366996-BE5E-401e-94F7-6B6EC9FCD77C}

Interface - (SysML Block Definition diagram)

Created By: Bardot on 07/03/2013
Last Modified: 07/03/2013
Version: 1.0. Locked: False
GUID: {13CB4D45-ACA3-4a18-A9F3-BDB27A023C5C}

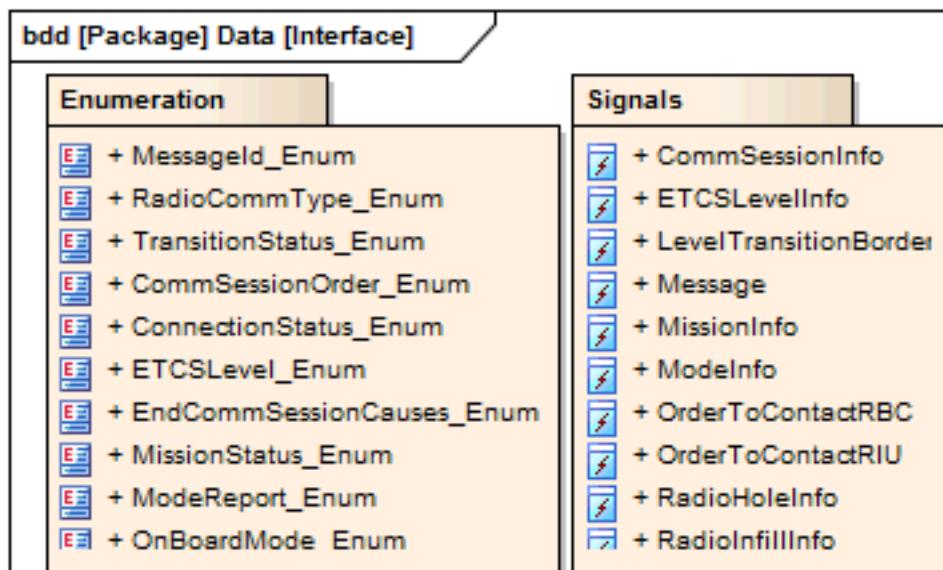


Figure: 2

Enumeration

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Data
Detail: Created on 07/03/2013. Last modified on 07/03/2013
GUID: {8FED6ADB-94A5-420c-AA4A-630EA2322954}

Enumerate - (SysML Block Definition diagram)

Created By: Bardot on 07/03/2013
Last Modified: 25/03/2013
Version: 1.0. Locked: False
GUID: {26DB13F5-CB41-4394-8DB9-0BF1678FAE63}

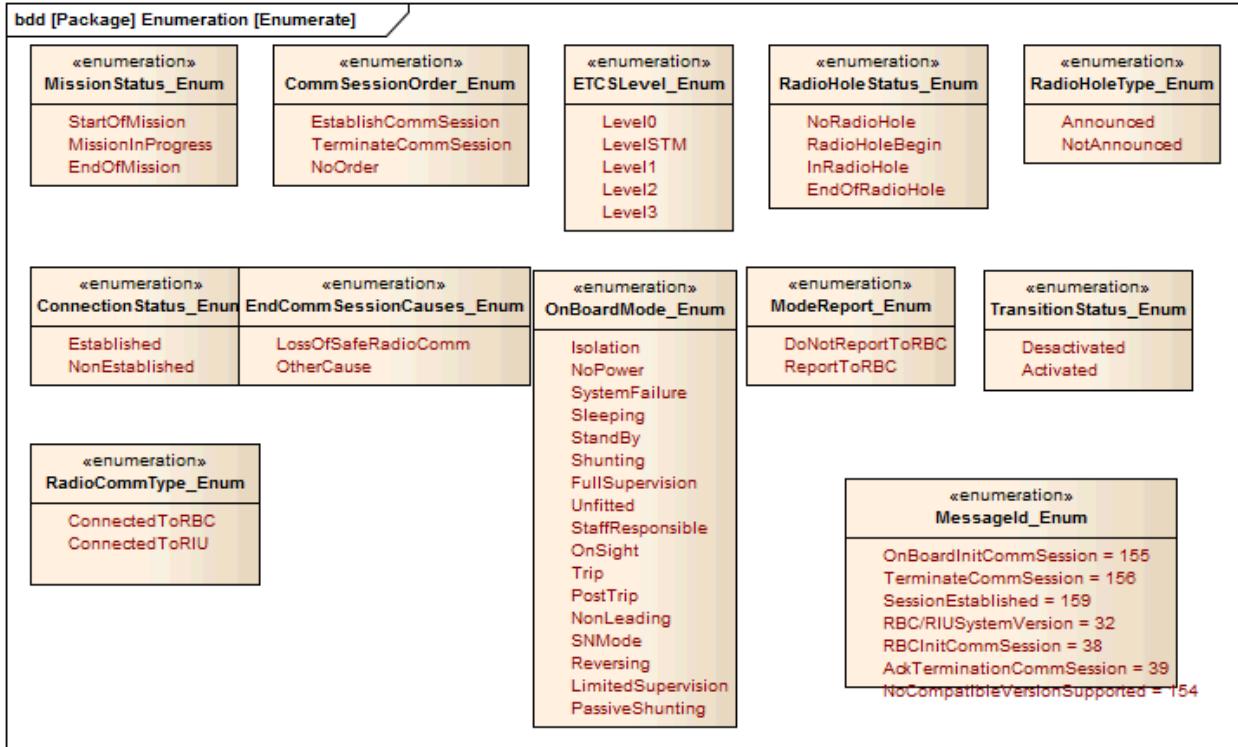


Figure: 3

Messageld_Enum

Type: **Enumeration**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Enumeration Keywords:
 Detail: Created on 25/03/2013. Last modified on 25/03/2013.
 G UID: {912B5125-9018-4565-BD09-316337779593}

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
OnBoardInitCommSession n int Public «enum»		Default: 155

Attribute	Notes	Constraints and tags
TerminateCommSession int Public «enum»		<i>Default:</i> 156
SessionEstablished int Public «enum»		<i>Default:</i> 159
RBC/RIUSystemVersion int Public «enum»		<i>Default:</i> 32
RBCInitCommSession int Public «enum»		<i>Default:</i> 38
AckTerminationCommSession int Public «enum»		<i>Default:</i> 39
NoCompatibleVersionSupported int Public «enum»		<i>Default:</i> 154

RadioCommType_Enum

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Enumeration **Keywords:**
Detail: Created on 25/03/2013. Last modified on 25/03/2013.
GUID: {B92D0497-F062-403b-A56A-7CD7DEDCB53D}

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
ConnectedToRBC Public «enum»		<i>Default:</i>
ConnectedToRIU Public «enum»		<i>Default:</i>

TransitionStatus_Enum

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Enumeration **Keywords:**
Detail: Created on 20/03/2013. Last modified on 20/03/2013.
GUID: {A3F994D3-BE3C-420c-8431-36AFF216BFDB}

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
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Attribute	Notes	Constraints and tags
Desactivated boolean Public «enum»		<i>Default:</i>
Activated boolean Public «enum»		<i>Default:</i>

CommSessionOrder_Enum

Type:

Enumeration

Status:

Proposed. Version 1.0. Phase 1.0.

Package:

Enumeration

Keywords:

Detail:

Created on 07/03/2013. Last modified on 15/03/2013.

GUID:

{6F9BB0FE-8549-4186-9165-BF3D5115A303}

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
EstablishCommSession boolean Public «enum»		<i>Default:</i>
TerminateCommSession boolean Public «enum»		<i>Default:</i>

Attribute	Notes	Constraints and tags
NoOrder Public «enum»		<i>Default:</i>

ConnectionStatus_Enum

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Enumeration **Keywords:**
Detail: *Created on 07/03/2013. Last modified on 15/03/2013.*
GUID: {673EAA4B-C6A9-4c3c-A852-6CCA03B60754}

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
Established boolean Public «enum»		<i>Default:</i>
NonEstablished boolean Public «enum»		<i>Default:</i>

ETCSLevel_Enum

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Enumeration **Keywords:**

Detail: Created on 07/03/2013. Last modified on 15/03/2013.
GUID: {E8617CB7-BE3F-4ab5-9128-596DE8D49DEB}

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
Level0 boolean Public «enum»		<i>Default:</i>
LevelSTM boolean Public «enum»		<i>Default:</i>
Level1 boolean Public «enum»		<i>Default:</i>
Level2 boolean Public «enum»		<i>Default:</i>
Level3 boolean Public «enum»		<i>Default:</i>

EndCommSessionCauses_Enum

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Enumeration **Keywords:**
Detail: *Created on 07/03/2013. Last modified on 15/03/2013.*
GUID: {0E56BC1C-5134-4338-B32E-34C3941B6F8D}

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
LossOfSafeRadioComm Public «enum»		<i>Default:</i>
OtherCause Public «enum»		<i>Default:</i>

MissionStatus_Enum

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Enumeration **Keywords:**
Detail: *Created on 07/03/2013. Last modified on 15/03/2013.*
GUID: {224EC5BF-5634-487e-ABCE-C4EE77B989FA}

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
StartOfMission boolean Public «enum»		<i>Default:</i>
MissionInProgress boolean Public «enum»		<i>Default:</i>
EndOfMission boolean Public «enum»		<i>Default:</i>

ModeReport_Enum**Type:** Enumeration**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** Enumeration **Keywords:****Detail:** Created on 07/03/2013. Last modified on 15/03/2013.**GUID:** {B4923D85-06A1-4ad0-84B2-4B256FC90613}**Custom Properties**

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
DoNotReportToRBC boolean Public		<i>Default:</i>

Attribute	Notes	Constraints and tags
«enum»		
ReportToRBC boolean Public		<i>Default:</i>
«enum»		

OnBoardMode_Enum

Type: **Enumeration**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Enumeration *Keywords:*

Detail: *Created on 07/03/2013. Last modified on 15/03/2013.*

GUID: {E58668DC-927B-47be-9E64-6A82942170F0}

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
Isolation boolean Public		<i>Default:</i>
«enum»		
NoPower boolean Public		<i>Default:</i>
«enum»		
SystemFailure boolean Public		<i>Default:</i>

Attribute	Notes	Constraints and tags
«enum»		
Sleeping boolean Public «enum»		<i>Default:</i>
StandBy boolean Public «enum»		<i>Default:</i>
Shunting boolean Public «enum»		<i>Default:</i>
FullSupervision boolean Public «enum»		<i>Default:</i>
Unfitted boolean Public «enum»		<i>Default:</i>
StaffResponsible boolean Public «enum»		<i>Default:</i>
OnSight boolean Public		<i>Default:</i>

Attribute	Notes	Constraints and tags
«enum»		
Trip boolean Public «enum»		<i>Default:</i>
PostTrip boolean Public «enum»		<i>Default:</i>
NonLeading boolean Public «enum»		<i>Default:</i>
SNMode boolean Public «enum»		<i>Default:</i>
Reversing boolean Public «enum»		<i>Default:</i>
LimitedSupervision boolean Public «enum»		<i>Default:</i>
PassiveShunting boolean		<i>Default:</i>

Attribute	Notes	Constraints and tags
Public «enum»		

RadioHoleStatus_Enum

Type:

Enumeration

Status:

Proposed. Version 1.0. Phase 1.0.

Package:

Enumeration

Keywords:

Detail:

Created on 07/03/2013. Last modified on 15/03/2013.

GUID:

{727D995E-C4E9-4078-B079-E2CFFAC56D9D}

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
NoRadioHole boolean Public «enum»		<i>Default:</i>
RadioHoleBegin boolean Public «enum»		<i>Default:</i>
InRadioHole boolean Public «enum»		<i>Default:</i>
EndOfRadioHole boolean Public		<i>Default:</i>

Attribute	Notes	Constraints and tags
«enum»		

RadioHoleType_Enum

Type: **Enumeration**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Enumeration Keywords:

Detail: Created on 07/03/2013. Last modified on 15/03/2013.

GUID: {B9E35D93-599C-42fa-98B8-D8047E5C1EC4}

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
Announced boolean Public «enum»		Default:
NotAnnounced boolean Public «enum»		Default:

Signals

Type: **Package**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Data

Detail: Created on 07/03/2013. Last modified on 07/03/2013

GUID: {EE9C3A58-2268-4e26-9911-4EBB655D14EB}

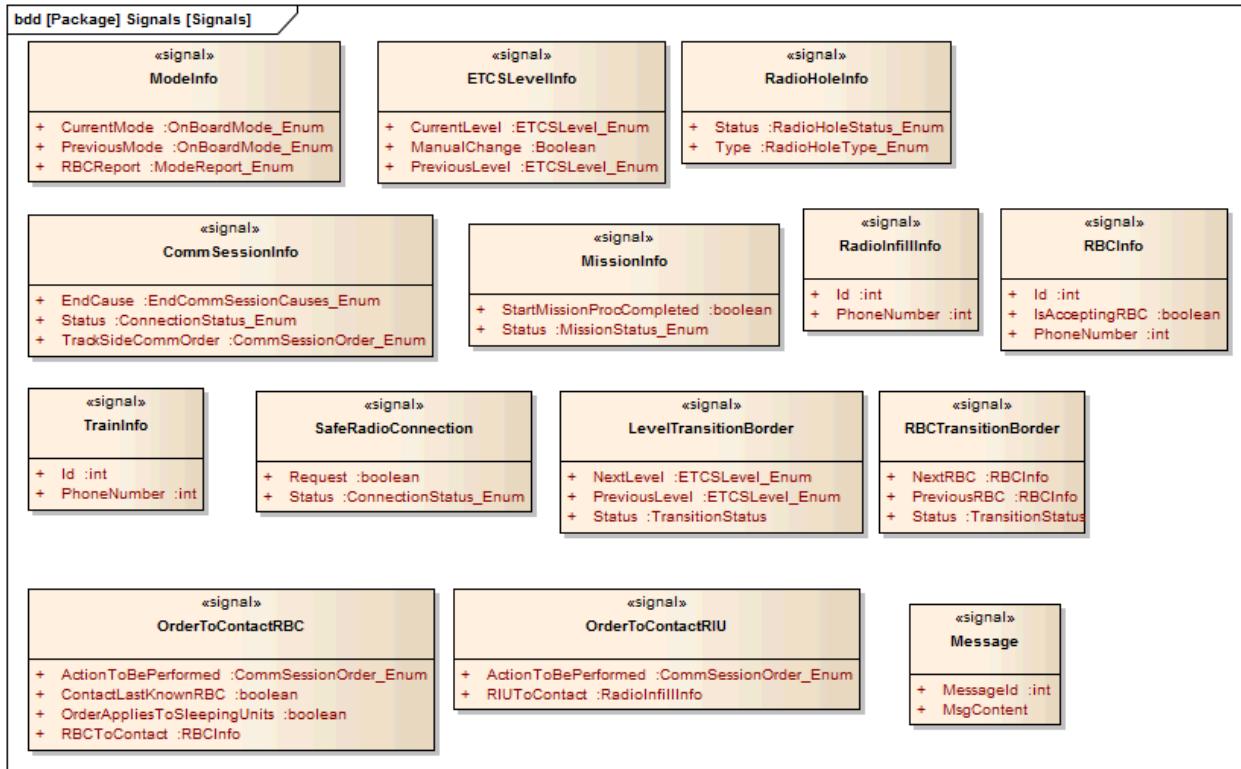
Signals - (SysML Block Definition diagram)*Created By:* Bardot on 07/03/2013*Last Modified:* 25/03/2013*Version:* 1.0. *Locked:* False*GUID:* {3DA6E811-E9FD-4e91-B771-3C0D14FF12C7}

Figure: 4

*CommSessionInfo**Type:* **Signal***Status:* Proposed. Version 1.0. Phase 1.0.*Package:* Signals *Keywords:**Detail:* Created on 08/03/2013. Last modified on 08/03/2013.*GUID:* {78420E37-0174-4cb8-97CF-FAA01286DFD9}**Attributes**

Attribute	Notes	Constraints and tags
EndCause EndCommSessionCauses_Enum Public		<i>Default:</i>

Attribute	Notes	Constraints and tags
Status ConnectionStatus_Enum Public		<i>Default:</i>
TrackSideCommOrder CommSessionOrder_Enum Public		<i>Default:</i>

ETCSLevelInfo

Type: Signal
Status: Proposed. Version 1.0. Phase 1.0.
Package: Signals **Keywords:**
Detail: *Created on 08/03/2013. Last modified on 08/03/2013.*
GUID: {353F97CB-4BC5-446f-BB7F-3170FCD2FFC8}

Attributes

Attribute	Notes	Constraints and tags
CurrentLevel ETCSLevel_Enum Public		<i>Default:</i>
ManualChange Boolean Public		<i>Default:</i>
PreviousLevel		<i>Default:</i>

Attribute	Notes	Constraints and tags
ETCSLevel_Enum Public		

LevelTransitionBorder

Type: **Signal**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Signals **Keywords:**
Detail: *Created on 20/03/2013. Last modified on 20/03/2013.*
GUID: {90A1A4A1-6F85-4029-B0C6-E8A9605D8B27}

Attributes

Attribute	Notes	Constraints and tags
NextLevel ETCSLevel_Enum Public		<i>Default:</i>
PreviousLevel ETCSLevel_Enum Public		<i>Default:</i>
Status TransitionStatus Public	The status is active during a predetermine duration when the train passes a level transition border with its front end	<i>Default:</i>

Message

Type: **Signal**

Status: Proposed. Version 1.0. Phase 1.0.
Package: Signals **Keywords:**
Detail: *Created on 25/03/2013. Last modified on 25/03/2013.*
GUID: {5928750E-FF51-404e-A635-061B424C09E8}

Attributes

Attribute	Notes	Constraints and tags
MessageId int Public		<i>Default:</i>
MsgContent Public		<i>Default:</i>

MissionInfo

Type: **Signal**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Signals **Keywords:**
Detail: *Created on 08/03/2013. Last modified on 08/03/2013.*
GUID: {935234F5-14E3-487b-9C03-BB752AAE5224}

Attributes

Attribute	Notes	Constraints and tags
StartMissionProcCompleted boolean Public		<i>Default:</i>
Status MissionStatus_Enum Public		<i>Default:</i>

Attribute	Notes	Constraints and tags

ModelInfo

Type: **Signal**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Signals
 Keywords:
 Detail: Created on 07/03/2013. Last modified on 07/03/2013.
 G UID: {241BE82B-E315-4b08-A11B-F85DA4E1923B}

Attributes

Attribute	Notes	Constraints and tags
CurrentMode OnBoardMode_Enum Public		<i>Default:</i>
PreviousMode OnBoardMode_Enum Public		<i>Default:</i>
RBCReport ModeReport_Enum Public		<i>Default:</i>

OrderToContactRBC

Type: **Signal**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Signals

Detail: Created on 21/03/2013. Last modified on 21/03/2013.
GUID: {2DA5AEA1-0A3C-428d-BA92-77AE27E60E51}

Attributes

Attribute	Notes	Constraints and tags
ActionToBePerformed CommSessionOrder_Enum Public		<i>Default:</i>
ContactLastKnownRBC boolean Public		<i>Default:</i>
OrderAppliesToSleepingUnits boolean Public		<i>Default:</i>
RBCToContact RBCInfo Public		<i>Default:</i>

OrderToContactRIU

Type: **Signal**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Signals *Keywords:*
Detail: Created on 21/03/2013. Last modified on 21/03/2013.
GUID: {7DDA92EF-557E-4a72-B51B-CC973789ED58}

Attributes

Attribute	Notes	Constraints and tags
ActionToBePerformed CommSessionOrder_Enum Public		<i>Default:</i>
RIUToContact RadioInfillInfo Public		<i>Default:</i>

RBCInfo**Type:** **Signal****Status:** Proposed. Version 1.0. Phase 1.0.**Package:** Signals**Detail:** *Created on 08/03/2013. Last modified on 08/03/2013.***GUID:** {B4D622CD-8440-4288-A817-85191E01D74F}**Attributes**

Attribute	Notes	Constraints and tags
Id int Public		<i>Default:</i>
IsAcceptingRBC boolean Public		<i>Default:</i>
PhoneNumber int Public		<i>Default:</i>

Attribute	Notes	Constraints and tags

RBCTransitionBorder

Type: **Signal**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Signals **Keywords:**

Detail: Created on 20/03/2013. Last modified on 20/03/2013.

GUID: {15BB4CE8-30A1-4722-AED3-2BDE6A9DAAA3}

Attributes

Attribute	Notes	Constraints and tags
NextRBC RBCInfo Public		<i>Default:</i>
PreviousRBC RBCInfo Public		<i>Default:</i>
Status TransitionStatus Public	The status is active during a predetermine duration when the train passes a RBC transition border with its front end	<i>Default:</i>

RadioHoleInfo

Type: **Signal**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Signals **Keywords:**

Detail: Created on 08/03/2013. Last modified on 15/03/2013.
GUID: {6DC49793-2137-4e34-B39E-A0ACFC0926D3}

Attributes

Attribute	Notes	Constraints and tags
Status RadioHoleStatus_Enum Public		<i>Default:</i>
Type RadioHoleType_Enum Public		<i>Default:</i>

RadioInfillInfo

Type: **Signal**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Signals *Keywords:*
Detail: Created on 08/03/2013. Last modified on 08/03/2013.
GUID: {8299EE07-AB35-4df1-9DAA-DC40AF397AA5}

Attributes

Attribute	Notes	Constraints and tags
Id int Public		<i>Default:</i>
PhoneNumber int Public		<i>Default:</i>

Attribute	Notes	Constraints and tags

SafeRadioConnection

Type: [Signal](#)
Status: Proposed. Version 1.0. Phase 1.0.
Package: Signals [Keywords](#):
Detail: *Created on 20/03/2013. Last modified on 20/03/2013.*
GUID: {F9F5F316-8295-47b9-A720-F6F973992D33}

Attributes

Attribute	Notes	Constraints and tags
Request boolean Public		<i>Default:</i>
Status ConnectionStatus_Enum Public		<i>Default:</i>

TrainInfo

Type: [Signal](#)
Status: Proposed. Version 1.0. Phase 1.0.
Package: Signals [Keywords](#):
Detail: *Created on 08/03/2013. Last modified on 08/03/2013.*
GUID: {792AFFEF-B043-4364-8181-0637CACC7814}

Attributes

Attribute	Notes	Constraints and tags
Id int Public		<i>Default:</i>

Attribute	Notes	Constraints and tags
PhoneNumber int Public		<i>Default:</i>

System Behavior and structure

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System
Detail: Created on 08/03/2013. Last modified on 28/03/2013
GUID: {E7C419AD-0DB4-43c6-8730-3583E3EDF57A}

System Behavior - (SysML Block Definition diagram)

Created By: Bardot on 15/03/2013
Last Modified: 09/04/2013
Version: 1.0. **Locked:** False
GUID: {306BC017-DA77-4e1c-A313-756D073910E6}

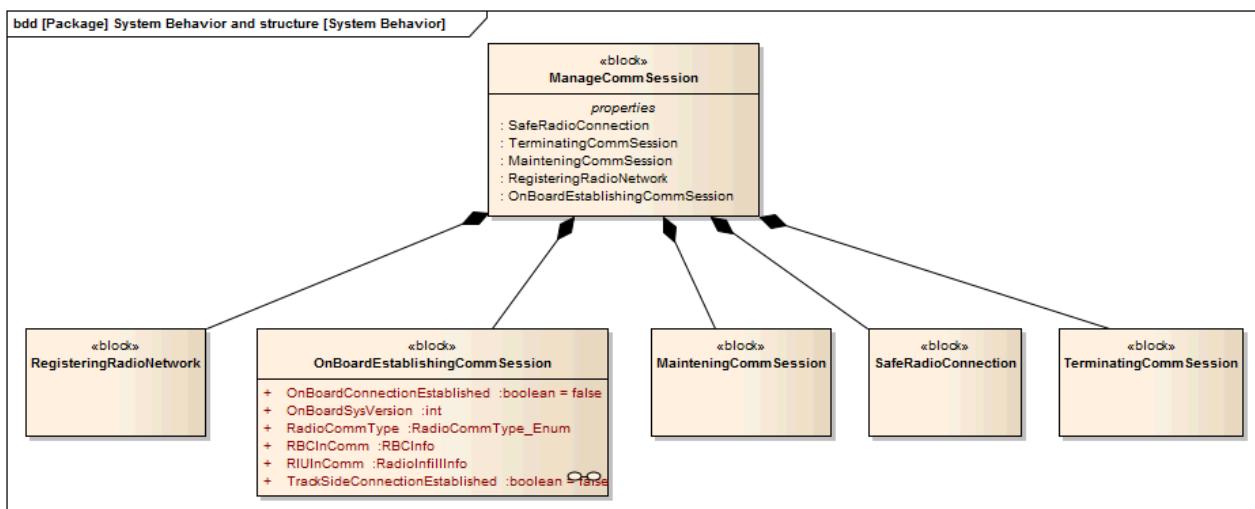


Figure: 5

MaintainingCommSession

Type: **Block**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 08/03/2013. Last modified on 28/03/2013.*
GUID: {50E5878B-C861-4d08-AAEE-BF6A62AE622D}

Custom Properties

- _defaultDiagramType = SysML1.3::InternalBlock
- isActive = False

Tagged Values

- isEncapsulated = .
Values: true,false

Connections

Connector	Source	Target	Notes
Aggregation Source -> Destination	Public MaintainingCommSession	Public ManageCommSession	

ManageCommSession

Type: **Block**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 08/03/2013. Last modified on 28/03/2013.*
GUID: {F596A53E-11E3-4f51-90A7-B44C3E531DAD}

Custom Properties

- _defaultDiagramType = SysML1.3::InternalBlock
- isActive = False

Tagged Values

- isEncapsulated = .
Values: true,false

Connections

Connector	Source	Target	Notes
Aggregation Source -> Destination	Public SafeRadioConnection	Public ManageCommSession	
Aggregation Source -> Destination	Public TerminatingCommSession	Public ManageCommSession	
Aggregation Source -> Destination	Public MaintainingCommSession	Public ManageCommSession	
Aggregation Source -> Destination	Public RegisteringRadioNetwork	Public ManageCommSession	
Aggregation Source -> Destination	Public OnBoardEstablishingCommSession	Public ManageCommSession	

Embedded Elements

Element	Detail	Notes
Property <anonymous>	Version: 1.0	

OnBoardEstablishingCommSession**Type:** Block**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 15/03/2013. Last modified on 09/04/2013.***GUID:** {5711A6C9-E385-48bc-A40C-8BA67306D8FB}**Custom Properties**

- _defaultDiagramType = SysML1.3::InternalBlock
- isActive = False

Tagged Values

- isEncapsulated = .

Values: true,false

Connections

Connector	Source	Target	Notes
Aggregation Source -> Destination	Public OnBoardEstablishingCommSession	Public ManageCommSession	

Attributes

Attribute	Notes	Constraints and tags
OnBoardConnectionEstablished boolean Public		<i>Default:</i> false
OnBoardSysVersion int Public		<i>Default:</i>
RadioCommType RadioCommType_Enum Public		<i>Default:</i>
RBCInComm RBCInfo Public		<i>Default:</i>
RIUInComm RadioInfillInfo Public		<i>Default:</i>

Attribute	Notes	Constraints and tags
TrackSideConnectionEstablished boolean Public		<i>Default:</i> false

Operations

Method	Notes	Parameters
IsCommSessionAlreadyEstablished() boolean Public	3..5.3.4.1 Return true if On-Bord cannot establish comm session because those conditions are respected : In respect of a), b), c), d) and e) of 3.5.3.4, the on-board shall not establish a new communication session with an RBC/RIU in case a communication session is currently being established or is already established with this RBC/RIU.	RadioInfillInfo [in] CommunicateRIU RBCInfo [in] CommunicateRBC OrderToContactRIU [in] RIUCommOrder OrderToContactRBC [in] RBCCommOrder CommSessionInfo [in] CommSession
IsContactingNewRBCOrdered() boolean Public	3.5.3.7 a) Return true if : order to establish communication session with a different RBC is received from trackside and the order does not request to contact an Accepting RBC	RBCInfo [in] CommunicateRBC OrderToContactRBC [in] ContactRBCOrder
IsEndCommOrderedFromTrackside() boolean Public	Return true if : 3.5.3.7 a) Order to terminate communication session is received from trackside	CommSessionInfo [in] CommSession
IsEndOfMission() boolean Public	Return true if : 3.5.3.7 a) : End of Mission is performed	MissionInfo [in] Mission
IsLevelChange() boolean Public	3.5.3.4 d) Return true if the driver has manually changed the level to 2 or 3	ETCSLevelInfo [in] Level
IsLevelTransitionPassed() boolean Public	3.5.3.7 a) Return true if : The train passes a level transition border (from level 2/3 to level 0, NTC, 1) with its front end	LevelTransitionBorder [in] LevelTransition

Method	Notes	Parameters
IsLossOfConnection() boolean Public	3.5.3.4 f) Return true when the previous communication session is considered as terminated due to loss of safe radio connection	CommSessionInfo [in] CommSession
IsModeChange() boolean Public	3.5.3.4 c) Return true if a mode change, not considered as an EndOfMission, has to be reported to the RBC (only if level 2 or 3)	ETCSLevelInfo [in] Level MissionInfo [in] MissionStatus ModeInfo [in] TrainMode
IsRadioHoleEnd() boolean Public	3.5.3.4 e) Return true if the train front reaches the end of an announced radio hole	RadioHoleInfo [in] RadioHole
IsRadioHoleStart() boolean Public	3.5.3.7 a) Return true if : the train front passes the start of an announced radio hole	RadioHoleInfo [in] RadioHole
IsRBCTransitionPassed() boolean Public	3.5.3.7 a) Return true if : The train passes a RBC/RBC border with its front end	RBCTransitionBorder [in] RBSTransition
IsRIULevel1Left() boolean Public	3.5.3.7 a) Return true if : Regards RIUs only: Level 1 is left	RadioCommType_Enum [in] EntityInComm ETCSLevelInfo [in] Level
IsSafeRadioConnected() boolean Public	Return true if receive a signal that indicates that a safe connection is established	SafeRadioConnection [in] SafeRadioConnect
IsStartCommOrderedFromTrackside() boolean Public	3.5.3.4 b) Return true if trackside has ordered the on-board to establish a communication session	CommSessionInfo [in] CommSession
IsStartMissionComplete() boolean Public	3.5.3.4 g) Return true when a Start Of Mission procedure, during which no communication session could be established, is completed in level 2 or 3	CommSessionInfo [in] CommSession ETCSLevelInfo [in] Level MissionInfo [in] Mission
IsStartOfMission() boolean Public	3.5.3.4 a) Return true at Start of Mission (only if Level 2 or 3)	MissionInfo [in] Mission ETCSLevelInfo [in] Level

Method	Notes	Parameters
IsSysVersionCompatible(<code>) boolean</code> Public	Return true if SysVers1 and SysVers2 are compatible. In order to simplify, system versions are considered compatible if they are identical.	int [in] SysVers2 int [in] SysVers1

Consider on-board comm session established

Type: **Activity**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 11/03/2013. Last modified on 18/03/2013.*
GUID: {929542A2-5DFB-47e4-94D6-C39D50F790DD}

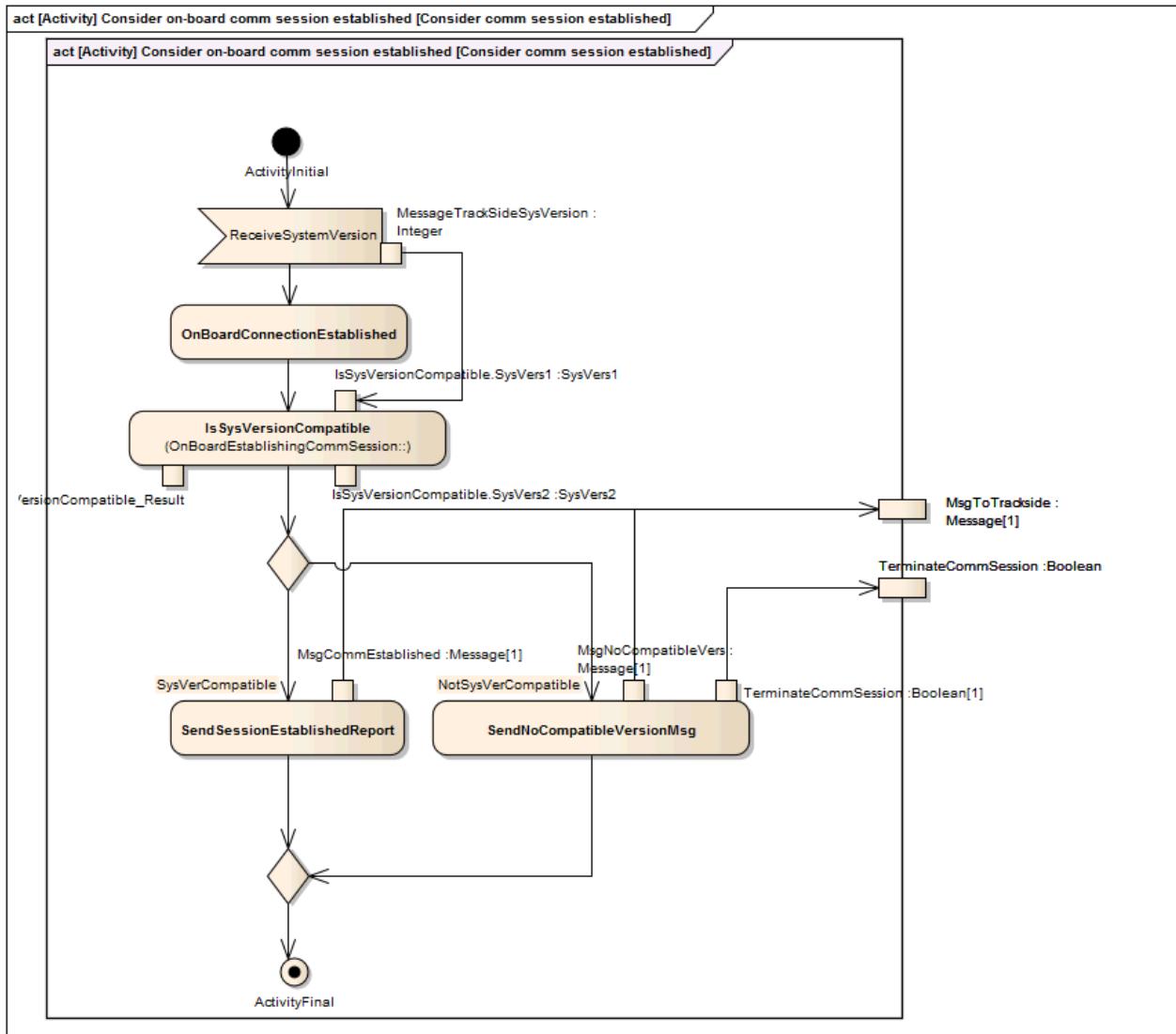
Custom Properties

- parameterName = Message*, Boolean*
- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =

Embedded Elements

Element	Detail	Notes
ActivityParameter MsgToTrackside	Version: 1.0	
ActivityParameter TerminateCommSession	Version: 1.0	

Activity diagram: Consider comm session established



IsSysVersionCompatible

Type: CallOperationAction
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 27/03/2013. Last modified on 27/03/2013.
GUID: {19FFB072-C2A3-478e-A251-D1269EF737DF}

Custom Properties

- kind = CallOperation
- context =
- effect =

Custom Properties

- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public OnBoardConnectionEstablished	Public IsSysVersionCompatible	
ControlFlow Source -> Destination	Public IsSysVersionCompatible	Public <anonymous>	

Embedded Elements

Element	Detail	Notes
ActionPin VersionCompatible_Result	Version: 1.0	
ActionPin IsSysVersionCompatible.SysVers2	Version: 1.0	
ActionPin IsSysVersionCompatible.SysVers1	Version: 1.0	

OnBoardConnectionEstablished

Type: **Action**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure *Keywords:*
Detail: Created on 26/03/2013. Last modified on 26/03/2013.
GUID: {FE322E58-3754-4046-B6D9-054C8DA58ACD}

Custom Properties

- effect = OnBoardConnectionEstablished = true;
- context =
- kind =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ReceiveSystemVersion	Public OnBoardConnectionEstablished	

Connector	Source	Target	Notes
		ablished	
ControlFlow Source -> Destination	Public OnBoardConnectionEst ablished	Public IsSysVersionCompatibl e	

ReceiveSystemVersion

Type: **AcceptEventAction**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure *Keywords:*

Detail: Created on 26/03/2013. Last modified on 26/03/2013.

GUID: {3F50977C-E1D5-4fe4-B043-1567A19B3D42}

Custom Properties

- kind = AcceptEvent
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public ReceiveSystemVersion	
ControlFlow Source -> Destination	Public ReceiveSystemVersion	Public OnBoardConnectionEst ablished	

Embedded Elements

Element	Detail	Notes
ActionPin MessageTrackSideSysVers ion	Version: 1.0	

SendNoCompatibleVersionMsg

Type: **Action**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure *Keywords:*

Detail: Created on 27/03/2013. Last modified on 27/03/2013.

GUID: {D13F2242-FC45-4ddc-B73D-EAA076CEA8AF}

Custom Properties

- effect = MsgNoCompatibleVers.MessageId = NoCompatibleVersionSupported;
TerminateCommSession = true;
- context =
- kind =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public SendNoCompatibleVersionMsg	Public <anonymous>	
ControlFlow NotSysVerCompatible Source -> Destination	Public <anonymous>	Public SendNoCompatibleVersionMsg	

Embedded Elements

Element	Detail	Notes
ActionPin		
MsgNoCompatibleVers	Version: 1.0	
ActionPin		
TerminateCommSession	Version: 1.0	

SendSessionEstablishedReport

Type: Action

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure **Keywords:**

Detail: Created on 27/03/2013. Last modified on 27/03/2013.

GUID: {7FB7C808-E668-44c6-BAA2-049A018A1F85}

Custom Properties

- effect = MsgCommEstablished.MessageId = SessionEstablished
- context =
- kind =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public SendSessionEstablished Report	Public <anonymous>	
ControlFlow SysVerCompatible Source -> Destination	Public <anonymous>	Public SendSessionEstablished Report	

Embedded Elements

Element	Detail	Notes
ActionPin MsgCommEstablished	Version: 1.0	

<anonymous>**Type:** DecisionNode**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 27/03/2013. Last modified on 27/03/2013.***GUID:** {44DD636F-0BB9-40d2-AE83-D9EC4CAF15D}***Connections***

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public IsSysVersionCompatible	Public <anonymous>	
ControlFlow NotSysVerCompatible Source -> Destination	Public <anonymous>	Public SendNoCompatibleVersionMsg	
ControlFlow SysVerCompatible Source -> Destination	Public <anonymous>	Public SendSessionEstablished Report	

<anonymous>**Type:** MergeNode**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 27/03/2013. Last modified on 27/03/2013.***GUID:** {B942199F-379A-4d1e-8FFA-F21706853D5A}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public SendSessionEstablished Report	Public <anonymous>	
ControlFlow Source -> Destination	Public SendNoCompatibleVersionMsg	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public ActivityFinal	

ActivityFinal**Type:** [**ActivityFinal**](#)**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 11/03/2013. Last modified on 11/03/2013.***GUID:** {A5D08B56-8385-4551-A660-8122B25BFC89}**Custom Properties**

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public ActivityFinal	

ActivityInitial**Type:** [**ActivityInitial**](#)**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 11/03/2013. Last modified on 11/03/2013.***GUID:** {EB6C2430-7310-4c06-A487-C125230E059E}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
<u>ControlFlow</u> Source -> Destination	Public ActivityInitial	Public ReceiveSystemVersion	

SendSystemVersion**Type:** Trigger**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** Created on 26/03/2013. Last modified on 26/03/2013.**GUID:** {77D42E74-4AD5-46c8-BE14-5A3FAB5362B6}**Custom Properties**

- kind = Signal

*Consider trackside comm session established***Type:** Activity**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** Created on 11/03/2013. Last modified on 18/03/2013.**GUID:** {4F16DD5B-B9C3-43a2-B78D-22E507A68C93}**Custom Properties**

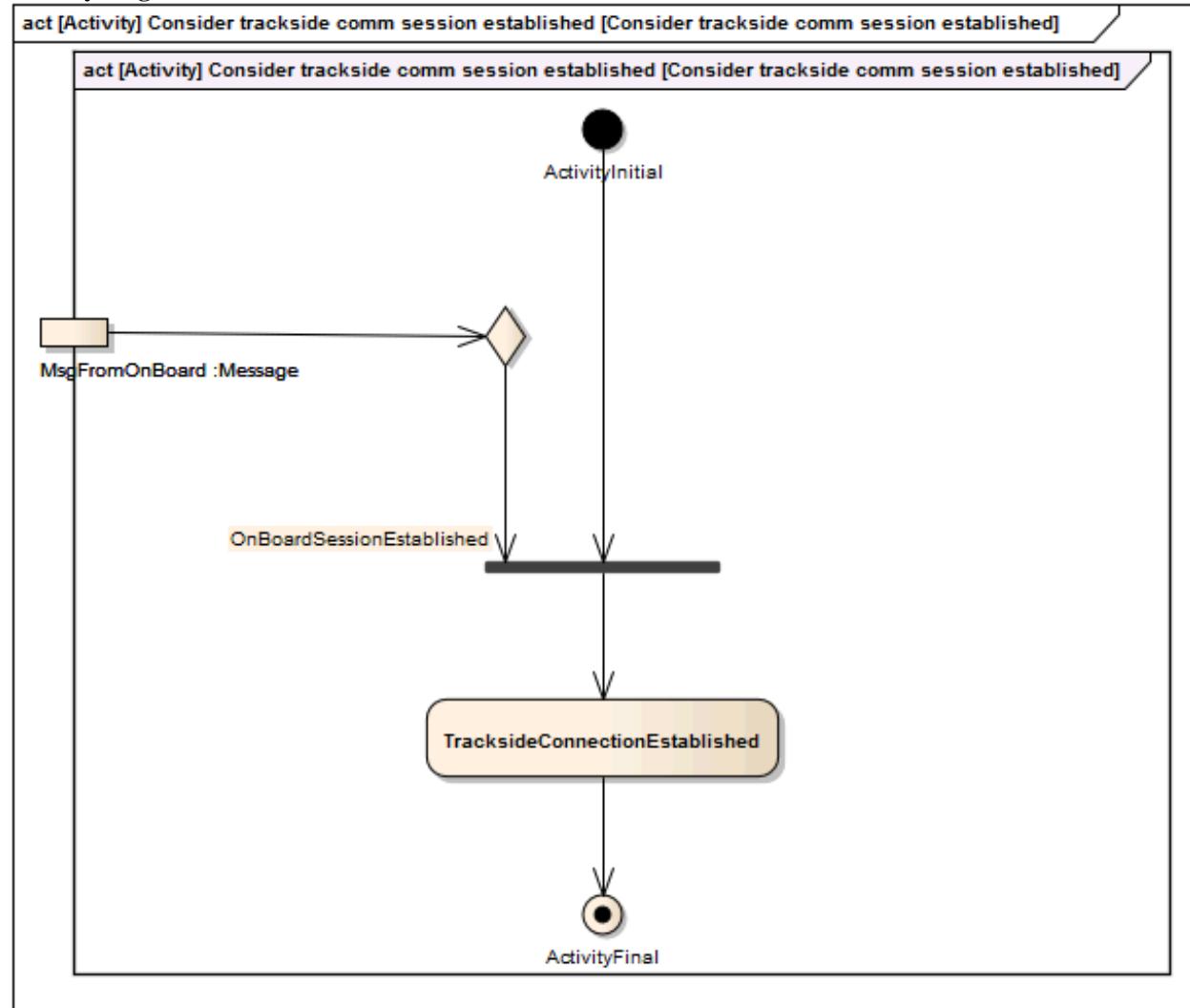
- parameterName = Message
- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =

Embedded Elements

Element	Detail	Notes
---------	--------	-------

Element	Detail	Notes
ActivityParameter MsgFromOnBoard	Version: 1.0	

Activity diagram: Consider trackside comm session established



TracksideConnectionEstablished

Type: **Action**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure **Keywords:**

Detail: Created on 27/03/2013. Last modified on 27/03/2013.

GUID: {98AD75F7-820F-4558-8112-6DDAF18DA38B}

Custom Properties

Custom Properties

- effect = TrackSideConnectionEstablished = true;
- context =
- kind =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public TracksideConnectionEstablished	Public ActivityFinal	
ControlFlow Source -> Destination	Public <anonymous>	Public TracksideConnectionEstablished	

<anonymous>

Type: **DecisionNode**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 27/03/2013. Last modified on 27/03/2013.
GUID: {0984D68C-4B67-4405-A697-DF6A6C3A333D}

Connections

Connector	Source	Target	Notes
Object Flow Source -> Destination	Public MsgFromOnBoard	Public <anonymous>	
ControlFlow OnBoardSessionEstablished Source -> Destination	Public <anonymous>	Public <anonymous>	

ActivityFinal

Type: **ActivityFinal**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 27/03/2013. Last modified on 27/03/2013.
GUID: {388D45B1-D142-44d0-A492-998F7EC9370C}

[Custom Properties](#)

- kind =

[Connections](#)

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public TracksideConnectionEstablished	Public ActivityFinal	

ActivityInitial**Type:** [ActivityInitial](#)**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure**Keywords:****Detail:** Created on 27/03/2013. Last modified on 27/03/2013.**GUID:** {9B9A3C00-66F5-4f98-A3B3-F7E54CA43062}[Custom Properties](#)

- kind =

[Connections](#)

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public <anonymous>	

Determine if On-Board shall initiate comm**Type:** [Activity](#)**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure**Keywords:****Detail:** Created on 12/03/2013. Last modified on 19/03/2013.**GUID:** {93D27630-29E0-4a86-9F44-80196CD00752}[Custom Properties](#)

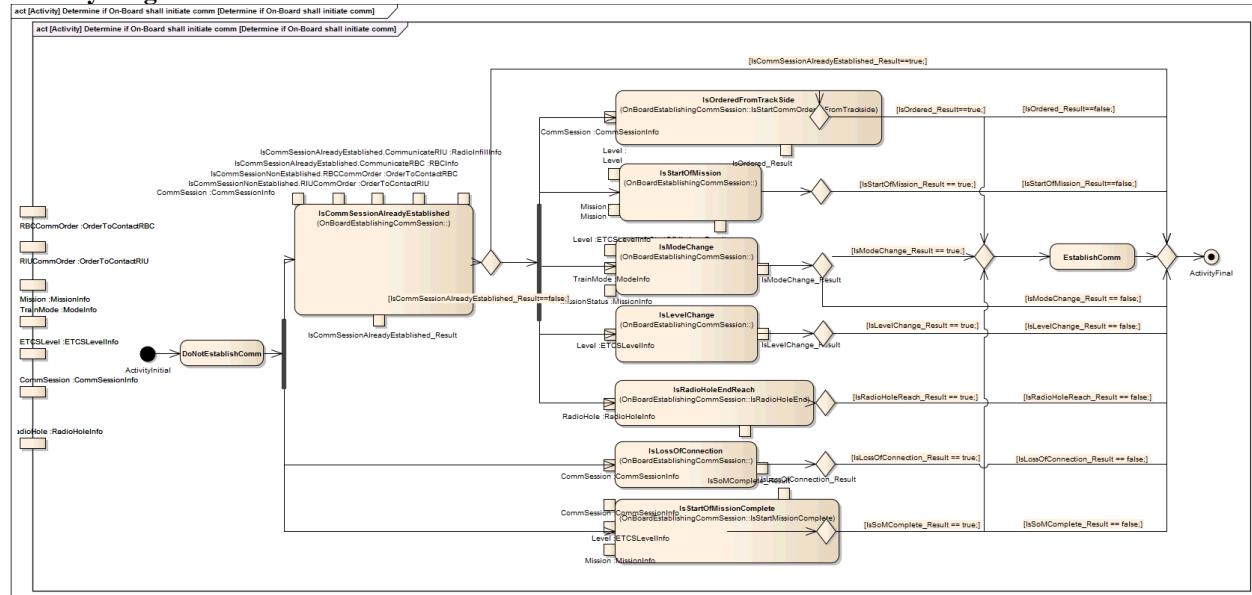
- parameterName = ETCSLevelInfo, MissionInfo, CommSessionInfo, ModeInfo, RadioHoleInfo, OrderToContactRBC, OrderToContactRIU

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =

Embedded Elements

Element	Detail	Notes
ActivityParameter ETCSLevel	Version: 1.0	
ActivityParameter Mission	Version: 1.0	
ActivityParameter CommSession	Version: 1.0	
ActivityParameter TrainMode	Version: 1.0	
ActivityParameter RadioHole	Version: 1.0	
ActivityParameter RBCCommOrder	Version: 1.0	
ActivityParameter RIUCommOrder	Version: 1.0	

Activity diagram: Determine if On-Board shall initiate comm**DoNotEstablishComm****Type:****Status:****Package:****Action**

Proposed. Version 1.0. Phase 1.0.

System Behavior and structure **Keywords:**

Detail: Created on 18/03/2013. Last modified on 19/03/2013.
GUID: {DEA6AB78-673E-44f0-9B3D-87D635E94C7C}

Custom Properties

- effect = ShallInitiateComm = false;
- context =
- kind =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public DoNotEstablishComm	
ControlFlow Source -> Destination	Public DoNotEstablishComm	Public <anonymous>	

EstablishComm

Type: Action
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure *Keywords:*
Detail: Created on 18/03/2013. Last modified on 18/03/2013.
GUID: {1AE1F51D-5A81-47ca-A1EB-6719B3AFEF58}

Custom Properties

- effect = ShallInitiateComm = true;
- context =
- kind =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public EstablishComm	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public EstablishComm	

IsCommSessionAlreadyEstablished

Type: **CallOperationAction**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure *Keywords:*

Detail: Created on 18/03/2013. Last modified on 22/03/2013.

GUID: {9BFFBD31-21A2-4f98-8C38-C657E158361F}

Custom Properties

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public IsCommSessionAlreadyEstablished	
ControlFlow Source -> Destination	Public IsCommSessionAlreadyEstablished	Public <anonymous>	

Embedded Elements

Element	Detail	Notes
ActionPin IsCommSessionAlreadyEstablished_Result	Version: 1.0	
ActionPin target	Version: 1.0	
ActionPin IsCommSessionAlreadyEstablished.CommunicateRIU	Version: 1.0	
ActionPin IsCommSessionAlreadyEstablished.CommunicateRB_C	Version: 1.0	
ActionPin IsCommSessionNonEstablished.RIUCommOrder	Version: 1.0	
ActionPin IsCommSessionNonEstablished.RBCCommOrder	Version: 1.0	

Element	Detail	Notes
ActionPin CommSession	Version: 1.0	

IsLevelChange

Type: **CallOperationAction**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure Keywords:

Detail: Created on 18/03/2013. Last modified on 18/03/2013.

GUID: {52E46E76-6B23-477f-B3A4-0F1279E5EF44}

Custom Properties

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public IsLevelChange	
ControlFlow Source -> Destination	Public IsLevelChange	Public <anonymous>	

Embedded Elements

Element	Detail	Notes
ActionPin		
IsLevelChange_Result	Version: 1.0	
ActionPin target	Version: 1.0	
ActionPin Level	Version: 1.0	

IsLossOfConnection

Type: **CallOperationAction**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure Keywords:

Detail: Created on 18/03/2013. Last modified on 18/03/2013.

GUID: {EA2D362F-7A76-420f-86C5-FA86567E4C3F}

Custom Properties

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public IsLossOfConnection	
ControlFlow Source -> Destination	Public IsLossOfConnection	Public <anonymous>	

Embedded Elements

Element	Detail	Notes
ActionPin IsLossOfConnection_Result	Version: 1.0	
ActionPin target	Version: 1.0	
ActionPin CommSession	Version: 1.0	

IsModeChange**Type:** CallOperationAction**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 18/03/2013. Last modified on 18/03/2013.***GUID:** {57ED233A-0FF8-4f9d-A5A7-576639DB405A}**Custom Properties**

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public IsModeChange	
ControlFlow Source -> Destination	Public IsModeChange	Public <anonymous>	

Embedded Elements

Element	Detail	Notes
ActionPin		
IsModeChange_Result	Version: 1.0	
ActionPin Level	Version: 1.0	
ActionPin MissionStatus	Version: 1.0	
ActionPin TrainMode	Version: 1.0	

IsOrderedFromTrackSide**Type:****CallOperationAction****Status:**

Proposed. Version 1.0. Phase 1.0.

Package:

System Behavior and structure

Keywords:**Detail:**

Created on 15/03/2013. Last modified on 18/03/2013.

GUID:

{DACD7507-AA07-42e2-9075-9C8EFAE81289}

Custom Properties

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public IsOrderedFromTrackSi de	
ControlFlow Source -> Destination	Public IsOrderedFromTrackSi de	Public <anonymous>	

Embedded Elements

Element	Detail	Notes
ActionPin IsOrdered_Result	Version: 1.0	
ActionPin CommSession	Version: 1.0	

IsRadioHoleEndReach

Type: [CallOperationAction](#)
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 18/03/2013. Last modified on 19/03/2013.*
GUID: {7804EF71-1388-4475-A598-4D2045667A4A}

Custom Properties

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public IsRadioHoleEndReach	
ControlFlow Source -> Destination	Public IsRadioHoleEndReach	Public <anonymous>	

Embedded Elements

Element	Detail	Notes
ActionPin IsRadioHoleReach_Result	Version: 1.0	
ActionPin target	Version: 1.0	
ActionPin RadioHole	Version: 1.0	

IsStartOfMission

Type: [CallOperationAction](#)
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 12/03/2013. Last modified on 15/03/2013.*
GUID: {5EC4A60F-1783-4e96-BD14-EBD809C83E6D}

Custom Properties

- effect = this.ShallInitiateComm=true;
- kind = CallOperation
- context =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public IsStartOfMission	
ControlFlow Source -> Destination	Public IsStartOfMission	Public <anonymous>	

Embedded Elements

Element	Detail	Notes
ActionPin IsStartOfMission_Result	Version: 1.0	
ActionPin Mission	Version: 1.0	
ActionPin Level	Version: 1.0	

IsStartOfMissionComplete**Type:** CallOperationAction**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** Created on 18/03/2013. Last modified on 18/03/2013.**GUID:** {2D90560A-FBB6-4a1e-BA82-C5C3D768C2B0}**Custom Properties**

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public IsStartOfMissionComplete	
ControlFlow Source -> Destination	Public IsStartOfMissionComplete	Public <anonymous>	

Embedded Elements

Element	Detail	Notes
ActionPin IsSoMComplete_Result	Version: 1.0	
ActionPin target	Version: 1.0	
ActionPin CommSession	Version: 1.0	
ActionPin Level	Version: 1.0	
ActionPin Mission	Version: 1.0	

<anonymous>**Type:** DecisionNode**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 18/03/2013. Last modified on 18/03/2013.***GUID:** {14C64596-9E2F-4a7f-AF32-AC7446F6E340}***Connections***

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public IsLevelChange	Public <anonymous>	

<anonymous>**Type:** DecisionNode**Status:** Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure **Keywords:**
Detail: Created on 18/03/2013. Last modified on 18/03/2013.
GUID: {2B19D28D-D3D4-4b89-95E6-4F05CFB4F4F6}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public IsCommSessionAlready Established	Public <anonymous>	

<anonymous>

Type: DecisionNode
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 18/03/2013. Last modified on 18/03/2013.
GUID: {07BE8155-54D4-42fb-BE60-39E72F69E86E}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public IsOrderedFromTrackSi de	Public <anonymous>	

<anonymous>

Type: DecisionNode
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 18/03/2013. Last modified on 18/03/2013.
GUID: {B796042D-2C2F-4d56-9427-5A468F95192E}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public IsModeChange	Public <anonymous>	

<anonymous>**Type:** DecisionNode**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 18/03/2013. Last modified on 18/03/2013.***GUID:** {7CA0FF11-21B0-461e-B1F0-EDD198680F33}***Connections***

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public IsRadioHoleEndReach	Public <anonymous>	

<anonymous>**Type:** DecisionNode**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 18/03/2013. Last modified on 18/03/2013.***GUID:** {1ED81D95-ACC1-40dc-B2D0-7C82729F7769}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public IsLossOfConnection	Public <anonymous>	

<anonymous>**Type:****DecisionNode****Status:**

Proposed. Version 1.0. Phase 1.0.

Package:

System Behavior and structure

Keywords:**Detail:**

Created on 18/03/2013. Last modified on 18/03/2013.

GUID:

{6BDE4BC5-6A49-4971-9A65-592836B30E24}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public IsStartOfMissionComplete	Public <anonymous>	

<anonymous>**Type:****DecisionNode****Status:**

Proposed. Version 1.0. Phase 1.0.

Package:

System Behavior and structure

Keywords:**Detail:**

Created on 18/03/2013. Last modified on 18/03/2013.

GUID:

{107B8A45-FBB6-495f-BA61-D4AB06B219FE}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public IsStartOfMission	Public <anonymous>	

<anonymous>

Type:

MergeNode

Status:

Proposed. Version 1.0. Phase 1.0.

Package:

System Behavior and structure

Keywords:

Detail:

Created on 18/03/2013. Last modified on 18/03/2013.

GUID:

{318730F0-A215-482b-ABE9-76A1C0335D86}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public EstablishComm	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	

<anonymous>

Type:

MergeNode

Status:

Proposed. Version 1.0. Phase 1.0.

Package:

System Behavior and structure

Keywords:

Detail: Created on 18/03/2013. Last modified on 18/03/2013.
GUID: {40B742FB-5663-4cbf-8939-127D385DB3F8}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public EstablishComm	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public ActivityFinal	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Source -> Destination	Public <anonymous>	Public <anonymous>	

ActivityFinal

Type: **ActivityFinal**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure *Keywords:*
Detail: Created on 12/03/2013. Last modified on 12/03/2013.
GUID: {819BBD58-CD36-489a-BFC0-D0E84F4591BA}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public ActivityFinal	

ActivityInitial**Type:****ActivityInitial****Status:**

Proposed. Version 1.0. Phase 1.0.

Package:

System Behavior and structure

Keywords:**Detail:**

Created on 12/03/2013. Last modified on 12/03/2013.

GUID:

{72B2867C-034C-42fd-8BB0-09BADF0BF71D}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public DoNotEstablishComm	

Initiate Comm Session**Type:****Activity****Status:**

Proposed. Version 1.0. Phase 1.0.

Package:

System Behavior and structure

Keywords:**Detail:**

Created on 11/03/2013. Last modified on 18/03/2013.

GUID:

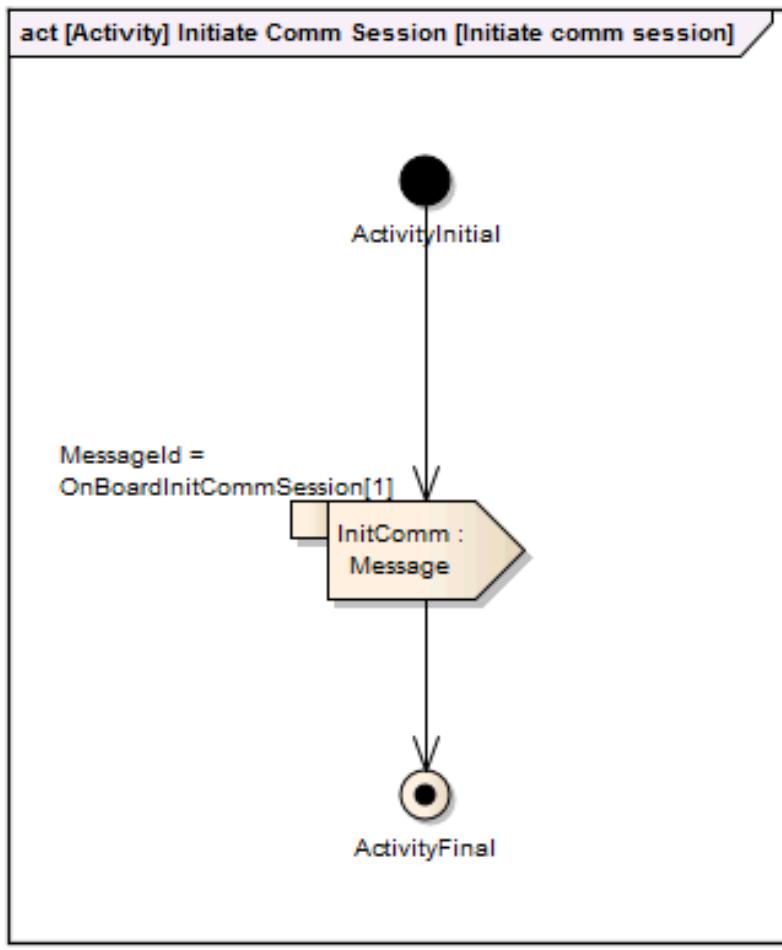
{C8F660D6-A601-4792-8B4B-21E568746F4B}

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =
- parameterName =

Activity diagram: Initiate comm session**act [Activity] Initiate Comm Session [Initiate comm session]**

How to send a structured data on the activity output? When this data is described by a signal, it can be send by a send signal event, or by an action's output pin connected to an activity's output parameter.
If a send signal event is used, a value can be associated to the differents signal attributes. But in this case, the send signal action has no output pin and cannot be connected to an output parameters. Thus, the activity's output have a lower visibility.
If an action's output pin is used with an atomic action for example, it can be connected to an output parameters and then, the activity's output parameters have a good visibility. But, then it seems impossible to set the initial value of the signal attributes.

**InitComm**

Type:
Status:
Package:
Detail:

SendSignalAction

Proposed. Version 1.0. Phase 1.0.

System Behavior and structure **Keywords:**

Created on 25/03/2013. Last modified on 25/03/2013.

GUID: {1982322C-CEA7-4cd1-A28A-9BC29A6F4B76}

Custom Properties

- kind = SendSignal
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public InitComm	
ControlFlow Source -> Destination	Public InitComm	Public ActivityFinal	

Embedded Elements

Element	Detail	Notes
ActionPin MessageId = OnBoardInitCommSession	Version: 1.0	
ActionPin target	Version: 1.0	

ActivityFinal

Type: **ActivityFinal**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure *Keywords:*

Detail: Created on 25/03/2013. Last modified on 25/03/2013.

GUID: {C5D63452-3293-4e2c-85B4-71DD952D92FE}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public InitComm	Public ActivityFinal	

ActivityInitial

Type: [**ActivityInitial**](#)
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 25/03/2013. Last modified on 25/03/2013.*
GUID: {D604F31D-4367-4151-99C2-0FFF11EC881F}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public InitComm	

OnBoardEstablishCommSession

Type: [**Activity**](#)
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 15/03/2013. Last modified on 28/03/2013.*
GUID: {CB94D512-DC7B-41a3-964D-1EA687FA31FE}

Custom Properties

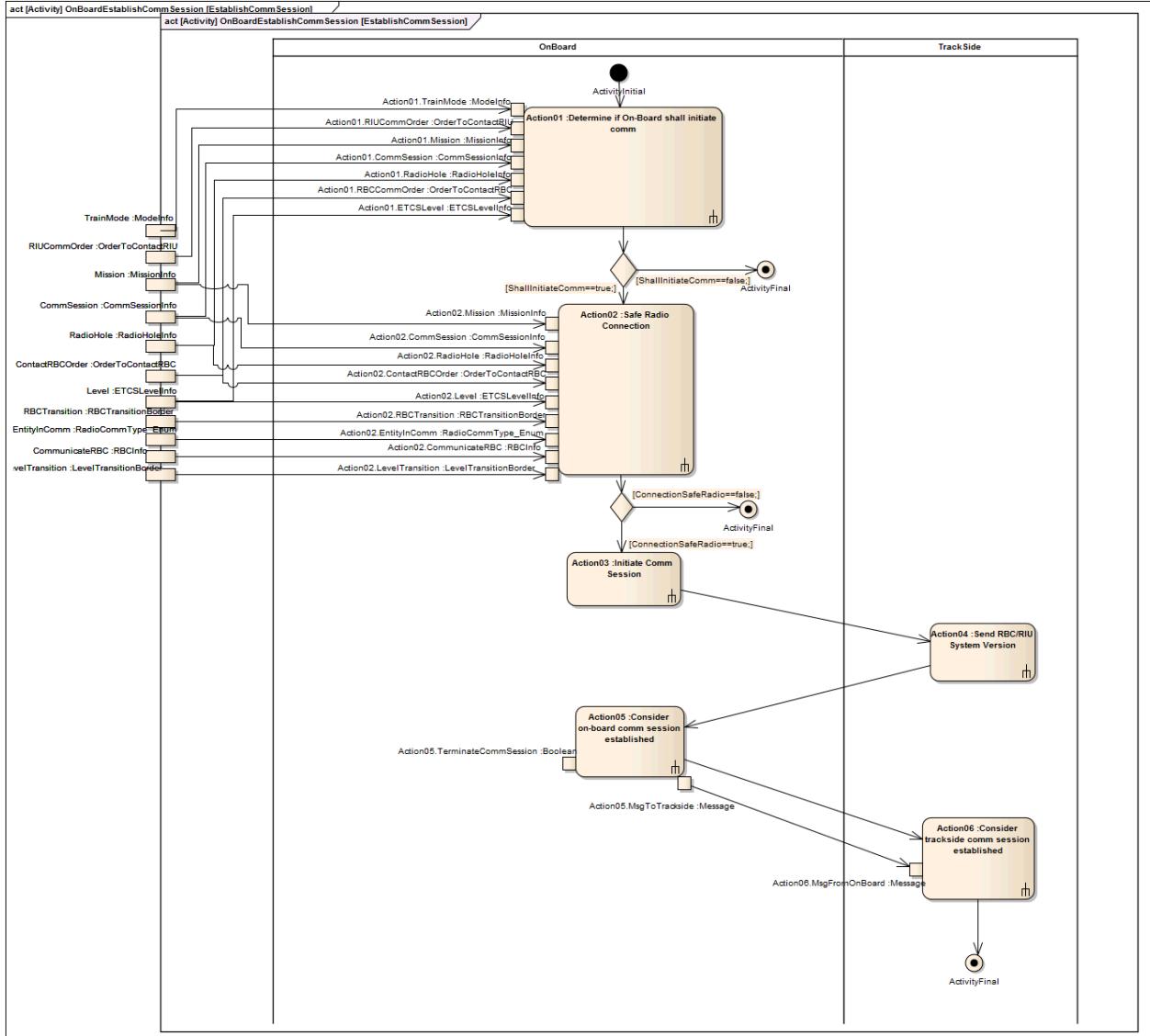
- parameterName = LevelTransitionBorder, OrderToContactRBC, RBCInfo, RBCTransitionBorder, RadioHoleInfo, MissionInfo, CommSessionInfo, ETCSLevelInfo, RadioCommType_Enum, ModeInfo, OrderToContactRIU
- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =

Embedded Elements

Element	Detail	Notes
ActivityParameter LevelTransition	Version: 1.0	

Element	Detail	Notes
ActivityParameter ContactRBCOrder	Version: 1.0	
ActivityParameter CommunicateRBC	Version: 1.0	
ActivityParameter RBCTransition	Version: 1.0	
ActivityParameter RadioHole	Version: 1.0	
ActivityParameter Mission	Version: 1.0	
ActivityParameter CommSession	Version: 1.0	
ActivityParameter Level	Version: 1.0	
ActivityParameter EntityInComm	Version: 1.0	
ActivityParameter TrainMode	Version: 1.0	
ActivityParameter RIUCommOrder	Version: 1.0	

Activity diagram: EstablishCommSession



Action01

Type:

Status:

Package:

Detail:

GUID:

CallBehaviorAction

Proposed. Version 1.0. Phase 1.0.

System Behavior and structure **Keywords:**

Created on 12/03/2013. Last modified on 28/03/2013.

{F9BCC2FA-08C5-4483-88FF-91D02C141162}

Responsibilities (external requirements)

- REQ_SRS026_3.5.3.4 (Proposed, Medium difficulty)
 - The on-board shall establish a communication session

Custom Properties

- kind = Determine if On-Board shall initiate comm
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public Action01	
ControlFlow Source -> Destination	Public Action01	Public <anonymous>	
Realization Source -> Destination	Public Action01	Public REQ_SRS026_3.5.3.4	

Embedded Elements

Element	Detail	Notes
ActionPin		
Action01.ETCSLevel	Version: 1.0	
ActionPin		
Action01.Mission	Version: 1.0	
ActionPin		
Action01.CommSession	Version: 1.0	
ActionPin		
Action01.TrainMode	Version: 1.0	
ActionPin		
Action01.RadioHole	Version: 1.0	
ActionPin		
Action01.RBCCommOrder	Version: 1.0	
ActionPin		
Action01.RIUCommOrder	Version: 1.0	

Action02

Type:
Status:
Package:
Detail:
GUID:

CallBehaviorAction

Proposed. Version 1.0. Phase 1.0.
System Behavior and structure *Keywords:*
Created on 12/03/2013. Last modified on 28/03/2013.
{2023F859-6C2A-4c83-84FE-8B6A11FFC3FC}

Custom Properties

Custom Properties

- kind = Safe Radio Connection
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public Action02	
ControlFlow Source -> Destination	Public Action02	Public <anonymous>	

Embedded Elements

Element	Detail	Notes
ActionPin Action02.Level	Version: 1.0	
ActionPin Action02.Mission	Version: 1.0	
ActionPin Action02.EntityInComm	Version: 1.0	
ActionPin Action02.RadioHole	Version: 1.0	
ActionPin Action02.RBCTransition	Version: 1.0	
ActionPin Action02.CommunicateRB C	Version: 1.0	
ActionPin Action02.ContactRBCOrd er	Version: 1.0	
ActionPin Action02.LevelTransition	Version: 1.0	
ActionPin Action02.CommSession	Version: 1.0	

Action03

Type:
Status:
Package:
Detail:
GUID:

CallBehaviorAction
Proposed. Version 1.0. Phase 1.0.
System Behavior and structure **Keywords:**
Created on 11/03/2013. Last modified on 28/03/2013.
{E68AF73C-8A1E-4f91-9F49-81266B8247C6}

Custom Properties

- kind = Initiate Comm Session
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public Action03	Public Action04	
ControlFlow Source -> Destination	Public <anonymous>	Public Action03	

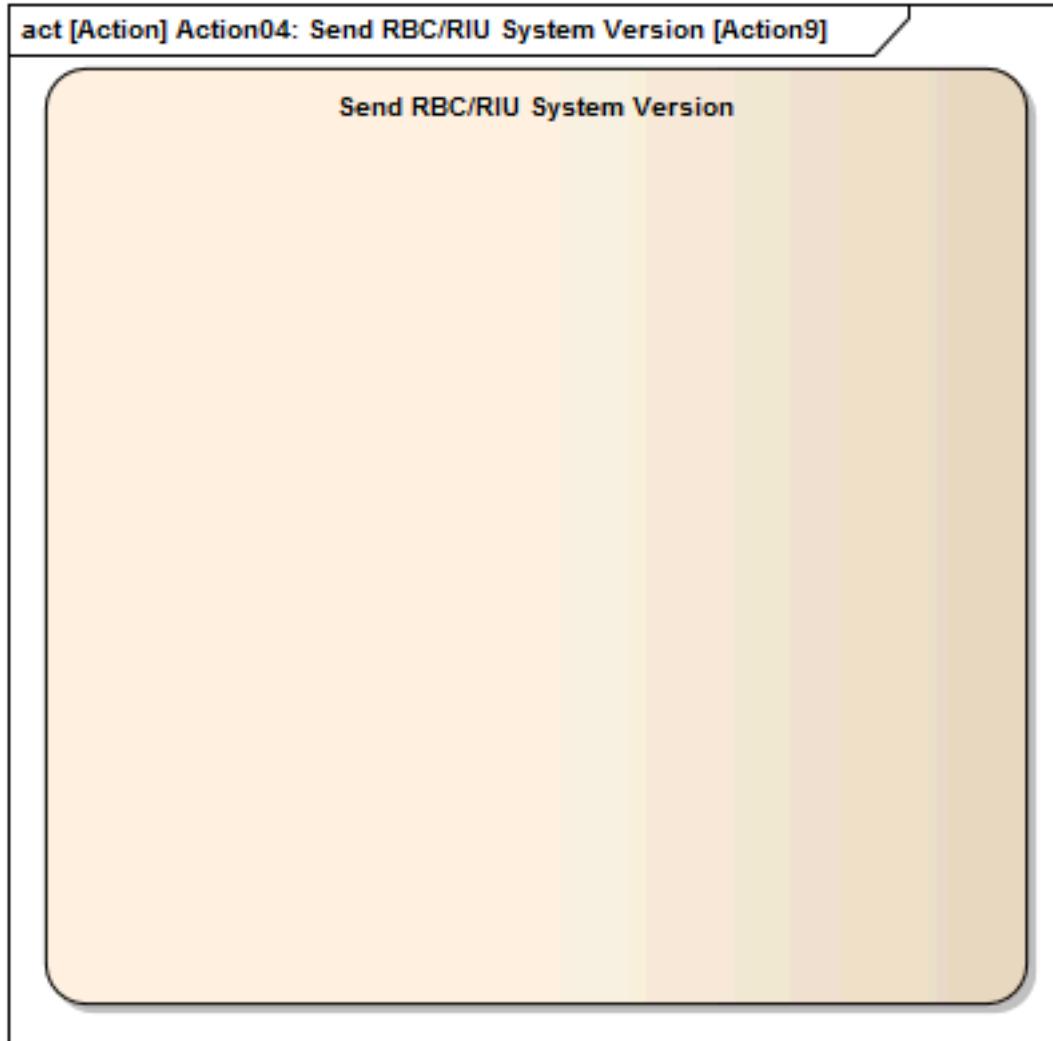
Action04**Type:** CallBehaviorAction**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 11/03/2013. Last modified on 28/03/2013.***GUID:** {102DDCCC-5B9E-4328-9A82-9A46A4AEEA0E}**Custom Properties**

- kind = Send RBC/RIU System Version
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public Action03	Public Action04	
ControlFlow Source -> Destination	Public Action04	Public Action05	

Activity diagram: Action9



Action05

Type: **CallBehaviorAction**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure
Detail: Created on 11/03/2013. Last modified on 28/03/2013.
GUID: {F702DA60-16BE-4951-B6EE-7AE39DB98CEE}

Custom Properties

- kind = Consider on-board comm session established
- context =
- effect =

Custom Properties

- value =

Connections

Connector	Source	Target	Notes
<u>ControlFlow</u> Source -> Destination	Public Action04	Public Action05	
<u>ControlFlow</u> Source -> Destination	Public Action05	Public Action06	

Embedded Elements

Element	Detail	Notes
ActionPin Action05.MsgToTrackside	Version: 1.0	
ActionPin Action05.TerminateComm Session	Version: 1.0	

Action06**Type:** CallBehaviorAction**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure**Keywords:****Detail:** Created on 11/03/2013. Last modified on 28/03/2013.**GUID:** {EDEBBF87-F8F0-4c4a-8483-F3C2B36A43BD}**Custom Properties**

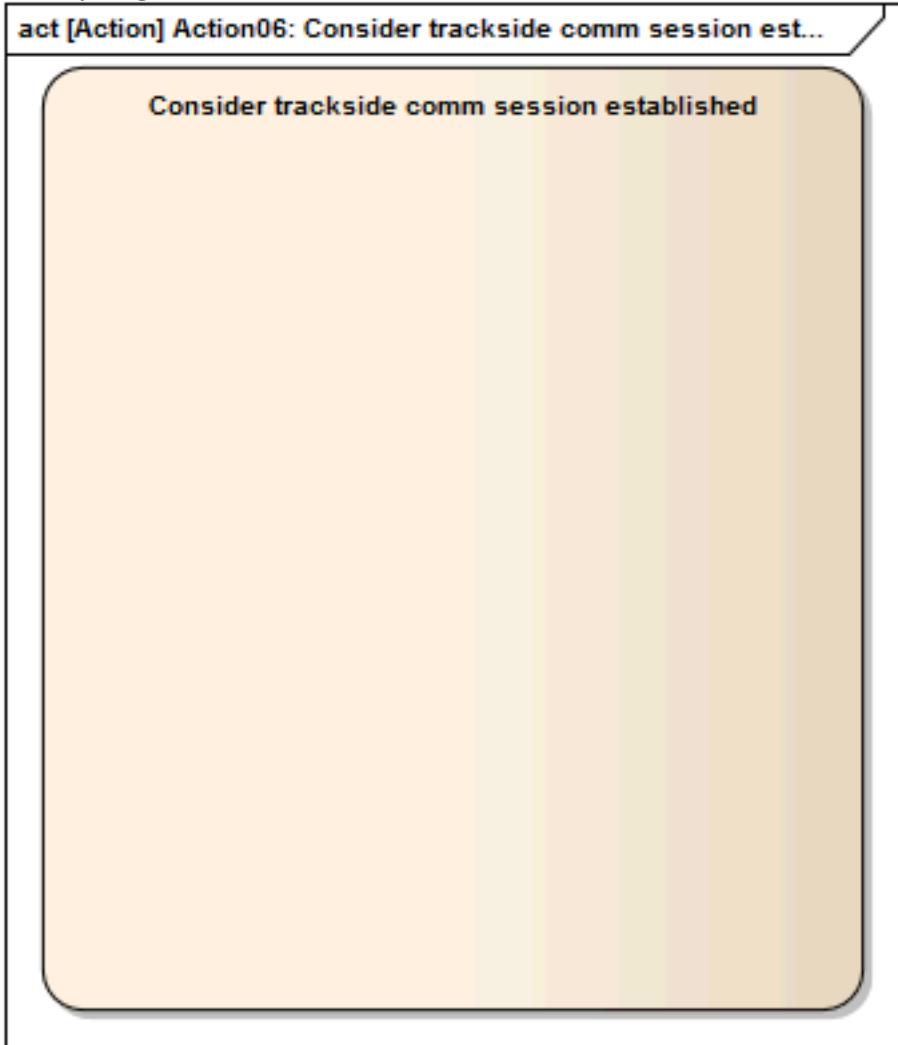
- kind = Consider trackside comm session established
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
<u>ControlFlow</u> Source -> Destination	Public Action05	Public Action06	
<u>ControlFlow</u> Source -> Destination	Public Action06	Public ActivityFinal	

Embedded Elements

Element	Detail	Notes
ActionPin Action06.MsgFromOnBoard	Version: 1.0	

Activity diagram: Consider comm session establish**OnBoard**

Type:

ActivityPartition

Status:

Proposed. Version 1.0. Phase 1.0.

Package:

System Behavior and structure

Keywords:

Detail:

Created on 28/03/2013. Last modified on 28/03/2013.

GUID:

{5082ABEF-8A5F-4586-9F64-7F08990B5E61}

Responsibilities (external requirements)

- REQ_SRS026_3.5.3.4 (*Proposed, Medium difficulty*)
The on-board shall establish a communication session

Custom Properties

- isDimension = False
- isExternal = False

Connections

Connector	Source	Target	Notes
Realization Source -> Destination	Public OnBoard	Public REQ_SRS026_3.5.3.4	

TrackSide**Type:****ActivityPartition****Status:** Proposed. Version 1.0. Phase 1.0.**Package:**

System Behavior and structure

Keywords:**Detail:***Created on 28/03/2013. Last modified on 28/03/2013.***GUID:**

{68FC3A2F-DF34-457d-862A-041F25673B34}

Responsibilities (external requirements)

- REQ_SRS026_3.5.3.4 (*Proposed, Medium difficulty*)
The on-board shall establish a communication session

Custom Properties

- isDimension = False
- isExternal = False

Connections

Connector	Source	Target	Notes
Realization Source -> Destination	Public TrackSide	Public REQ_SRS026_3.5.3.4	

<anonymous>

Type: DecisionNode
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 28/03/2013. Last modified on 28/03/2013.*
GUID: {7E974EE2-1760-4def-8537-74153B7B5D2F}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public ActivityFinal	
ControlFlow Source -> Destination	Public <anonymous>	Public Action02	
ControlFlow Source -> Destination	Public Action01	Public <anonymous>	

<anonymous>

Type: DecisionNode
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 12/03/2013. Last modified on 28/03/2013.*
GUID: {5C871634-1351-4ffb-B0AA-B30FF9F09A79}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public ActivityFinal	
ControlFlow Source -> Destination	Public <anonymous>	Public Action03	
ControlFlow Source -> Destination	Public Action02	Public <anonymous>	

ActivityFinal

Type: ActivityFinal
Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure **Keywords:**
Detail: Created on 12/03/2013. Last modified on 28/03/2013.
GUID: {F5D18977-C4C3-4c64-A29E-A94926278BFC}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public Action06	Public ActivityFinal	

ActivityFinal

Type: ActivityFinal
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 12/03/2013. Last modified on 28/03/2013.
GUID: {48DE27E8-ECC8-4256-B776-CA043F281E39}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public ActivityFinal	

ActivityFinal

Type: ActivityFinal
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 12/03/2013. Last modified on 28/03/2013.
GUID: {15AC4440-CAE9-470a-8DCC-3DCBC8366060}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
<u>ControlFlow</u> Source -> Destination	Public <anonymous>	Public ActivityFinal	

ActivityInitial**Type:** ActivityInitial**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** Created on 12/03/2013. Last modified on 28/03/2013.**GUID:** {3A2579E7-4AAA-4fea-9BDF-E886A3857385}**Custom Properties**

- kind =

Connections

Connector	Source	Target	Notes
<u>ControlFlow</u> Source -> Destination	Public ActivityInitial	Public Action01	

Safe Radio Connection**Type:** Activity**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** Created on 12/03/2013. Last modified on 18/03/2013.**GUID:** {FF9DBA8D-2870-4d71-B47F-A4ED66F37FFD}**Custom Properties**

- parameterName = ETCSLevelInfo, MissionInfo, RadioCommType_Enum, RadioHoleInfo, RBCTransitionBorder, RBCInfo, OrderToContactRBC, LevelTransitionBorder, CommSessionInfo
- isReadOnly = False
- isSingleExecution = False

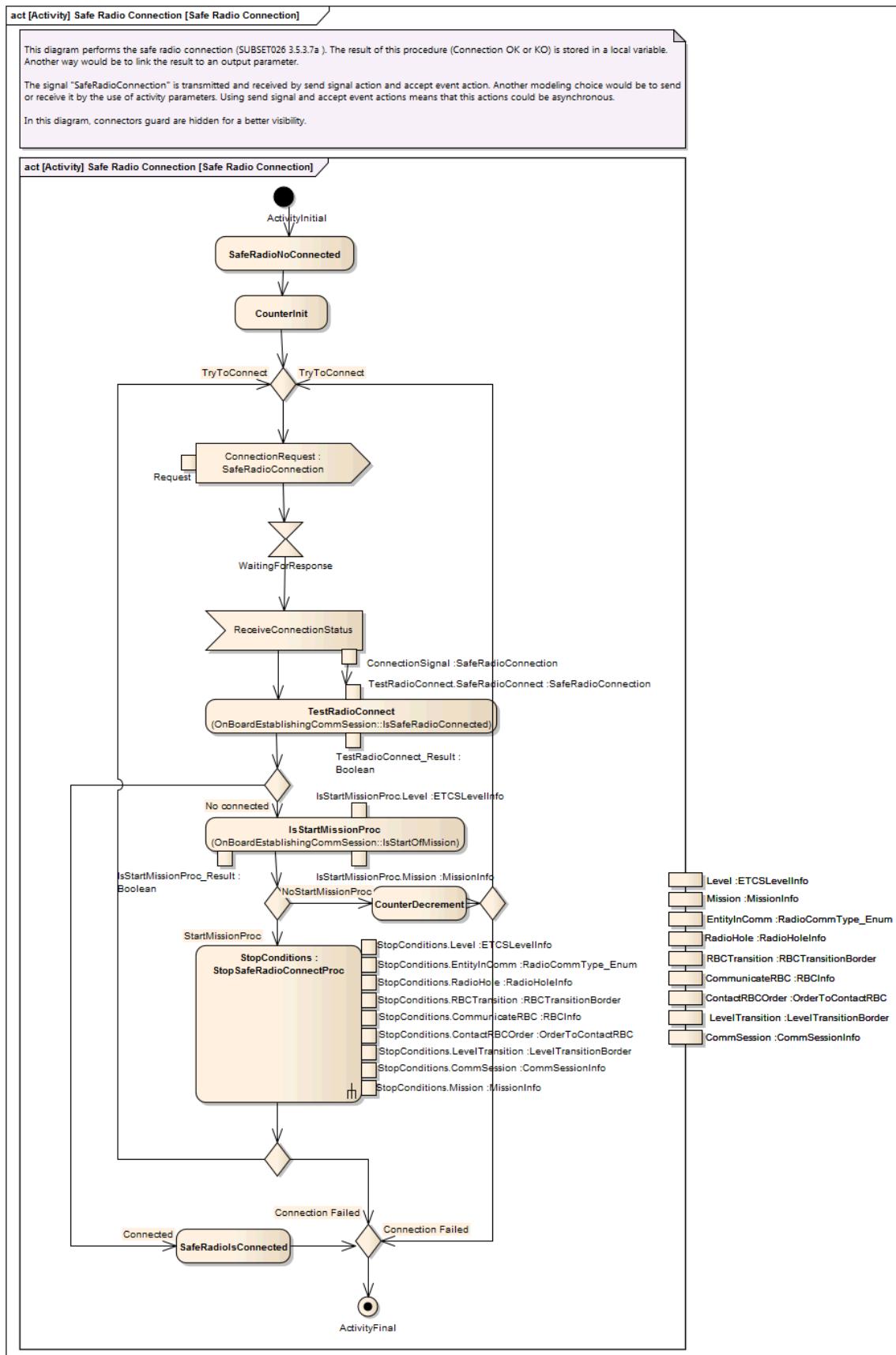
Custom Properties

- postcondition =
- precondition =

Embedded Elements

Element	Detail	Notes
ActivityParameter Level	Version: 1.0	
ActivityParameter Mission	Version: 1.0	
ActivityParameter EntityInComm	Version: 1.0	
ActivityParameter RadioHole	Version: 1.0	
ActivityParameter RBCTransition	Version: 1.0	
ActivityParameter CommunicateRBC	Version: 1.0	
ActivityParameter ContactRBCOrder	Version: 1.0	
ActivityParameter LevelTransition	Version: 1.0	
ActivityParameter CommSession	Version: 1.0	

Activity diagram: Safe Radio Connection



ConnectionRequest

Type: **SendSignalAction**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure Keywords:

Detail: Created on 20/03/2013. Last modified on 20/03/2013.

GUID: {8FF2C30A-37C3-4303-AEB7-7CC825E379EC}

Custom Properties

- kind = SendSignal
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ConnectionRequest	Public WaitingForResponse	
ControlFlow Source -> Destination	Public <anonymous>	Public ConnectionRequest	

Embedded Elements

Element	Detail	Notes
ActionPin Request	Version: 1.0	
ActionPin target	Version: 1.0	

CounterDecrement

Type: **Action**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure Keywords:

Detail: Created on 19/03/2013. Last modified on 20/03/2013.

GUID: {9605528B-E272-43b0-9E9D-8E9E9247B96E}

Custom Properties

Custom Properties

- effect = RadioConnectCounter--;
- context =
- kind =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public CounterDecrement	Public <anonymous>	
ControlFlow NoStartMissionProc Source -> Destination	Public <anonymous>	Public CounterDecrement	

CounterInit**Type:** Action**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** Created on 19/03/2013. Last modified on 19/03/2013.**GUID:** {08C969E2-49BF-4e5e-A855-DB9CC1194D8D}**Custom Properties**

- effect = RadioConnectCounter = 3;
- context =
- kind =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public SafeRadioNoConnected	Public CounterInit	
ControlFlow Source -> Destination	Public CounterInit	Public <anonymous>	

IsStartMissionProc

Type: **CallOperationAction**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 19/03/2013. Last modified on 20/03/2013.*
GUID: {336333CD-AB28-4694-B224-082ADD839A6D}

Custom Properties

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public IsStartMissionProc	Public <anonymous>	
ControlFlow No connected Source -> Destination	Public <anonymous>	Public IsStartMissionProc	

Embedded Elements

Element	Detail	Notes
ActionPin IsStartMissionProc_Result	Version: 1.0	
ActionPin IsStartMissionProc.Mission	Version: 1.0	
ActionPin IsStartMissionProc.Level	Version: 1.0	

ReceiveConnectionStatus

Type: **AcceptEventAction**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 20/03/2013. Last modified on 20/03/2013.*
GUID: {4C81FC0F-F1E6-4779-8F35-3493D0FAA9A3}

Custom Properties

- kind = AcceptEvent

Custom Properties

- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public WaitingForResponse	Public ReceiveConnectionStat us	
ControlFlow Source -> Destination	Public ReceiveConnectionStat us	Public TestRadioConnect	

Embedded Elements

Element	Detail	Notes
ActionPin ConnectionSignal	Version: 1.0	

SafeRadiosConnected**Type:****Action****Status:** Proposed. Version 1.0. Phase 1.0.**Package:**

System Behavior and structure

Keywords:**Detail:**

Created on 19/03/2013. Last modified on 19/03/2013.

GUID:

{336B084E-E63A-41a4-9A5C-C0B4BAC2A9E8}

Custom Properties

- effect = ConnectionSafeRadio=true;
- context =
- kind =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public SafeRadioIsConnected	Public <anonymous>	
ControlFlow Connected Source -> Destination	Public <anonymous>	Public SafeRadioIsConnected	

Connector	Source	Target	Notes

SafeRadioNoConnected

Type: **Action**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure **Keywords:**

Detail: Created on 12/03/2013. Last modified on 20/03/2013.

GUID: {681C1138-FA6A-4498-8C61-274F4515E553}

Custom Properties

- effect = ConnectionSafeRadio=false;
- context =
- kind =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public SafeRadioNoConnected	
ControlFlow Source -> Destination	Public SafeRadioNoConnected	Public CounterInit	

StopConditions

Type: **CallBehaviorAction**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure **Keywords:**

Detail: Created on 19/03/2013. Last modified on 20/03/2013.

GUID: {10C85AF3-2C9D-4d34-81D3-B9C4BA5DED43}

Custom Properties

- kind = StopSafeRadioConnectProc
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public StopConditions	Public <anonymous>	
ControlFlow StartMissionProc Source -> Destination	Public <anonymous>	Public StopConditions	

Embedded Elements

Element	Detail	Notes
ActionPin StopConditions.Mission	Version: 1.0	
ActionPin StopConditions.CommSession	Version: 1.0	
ActionPin StopConditions.LevelTransition	Version: 1.0	
ActionPin StopConditions.ContactRBOrder	Version: 1.0	
ActionPin StopConditions.CommunicateRBC	Version: 1.0	
ActionPin StopConditions.RBCTransition	Version: 1.0	
ActionPin StopConditions.RadioHole	Version: 1.0	
ActionPin StopConditions.EntityInComm	Version: 1.0	
ActionPin StopConditions.Level	Version: 1.0	

TestRadioConnect

Type: CallOperationAction
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 19/03/2013. Last modified on 20/03/2013.*
GUID: {408BFB66-DFB7-4f0d-B3C6-4F86F8089C28}

Custom Properties

- kind = CallOperation

Custom Properties

- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public TestRadioConnect	Public <anonymous>	
ControlFlow Source -> Destination	Public ReceiveConnectionStat us	Public TestRadioConnect	

Embedded Elements

Element	Detail	Notes
ActionPin TestRadioConnect_Result	Version: 1.0	
ActionPin TestRadioConnect.SafeRad ioConnect	Version: 1.0	

WaitingForResponse**Type:** AcceptEventTimerAction**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** Created on 19/03/2013. Last modified on 19/03/2013.**GUID:** {0B403804-5442-49e6-AE34-60B99F996ECF}**Custom Properties**

- kind = AcceptEventTimer
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ConnectionRequest	Public WaitingForResponse	

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public WaitingForResponse	Public ReceiveConnectionStatus	

<anonymous>

Type: **DecisionNode**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*
GUID: {2C4C5882-187A-4dec-BA48-267EBC62196C}

<anonymous>

Type: **DecisionNode**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*
GUID: {76372F28-FF97-4d87-8C15-479648545151}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public IsStartMissionProc	Public <anonymous>	
ControlFlow NoStartMissionProc Source -> Destination	Public <anonymous>	Public CounterDecrement	
ControlFlow StartMissionProc Source -> Destination	Public <anonymous>	Public StopConditions	

<anonymous>

Type: **DecisionNode**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*
GUID: {FF89C568-7FF1-45eb-8C4C-CFA476E5D774}

<anonymous>

Type: **DecisionNode**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure *Keywords:*
Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*
GUID: {0CD972B2-4805-4bac-BE7B-072989A2F48C}

<anonymous>

Type: **DecisionNode**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure *Keywords:*
Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*
GUID: {E0CDA16E-9167-42cd-AD4D-1435BE6846D1}

<anonymous>

Type: **DecisionNode**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure *Keywords:*
Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*
GUID: {6FDD3039-D0B3-44c1-AAAC-B4E0E05188DF}

<anonymous>

Type: **DecisionNode**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure *Keywords:*
Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*
GUID: {EB049DE3-EBB6-40e4-B57E-FFF4DCAB7E3E}

<anonymous>

Type: **DecisionNode**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*
GUID: {7BEFD511-CF8C-4e7c-8426-262825A2B859}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public CounterDecrement	Public <anonymous>	
ControlFlow Connection Failed Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow TryToConnect Source -> Destination	Public <anonymous>	Public <anonymous>	

<anonymous>

Type: **DecisionNode**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*
GUID: {08C11952-53E4-4cb6-A689-C7896916A301}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public TestRadioConnect	Public <anonymous>	
ControlFlow Connected Source -> Destination	Public <anonymous>	Public SafeRadioIsConnected	
ControlFlow No connected Source -> Destination	Public <anonymous>	Public IsStartMissionProc	

<anonymous>

Type: **DecisionNode**
Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure **Keywords:**
Detail: Created on 19/03/2013. Last modified on 19/03/2013.
GUID: {5F0C0415-BDFC-41b6-BE08-B23F4BCC6079}

<anonymous>

Type: DecisionNode
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 19/03/2013. Last modified on 19/03/2013.
GUID: {744FDACE-0CAC-42a5-B655-3B4BB42F5960}

Connections

Connector	Source	Target	Notes
<u>ControlFlow</u> Source -> Destination	Public StopConditions	Public <anonymous>	
<u>ControlFlow</u> Connection Failed Source -> Destination	Public <anonymous>	Public <anonymous>	
<u>ControlFlow</u> TryToConnect Source -> Destination	Public <anonymous>	Public <anonymous>	

<anonymous>

Type: MergeNode
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 19/03/2013. Last modified on 19/03/2013.
GUID: {49DA0939-CB22-488c-A4C9-3658DEDC77ED}

Connections

Connector	Source	Target	Notes
<u>ControlFlow</u> Source -> Destination	Public CounterInit	Public <anonymous>	
<u>ControlFlow</u> Source -> Destination	Public <anonymous>	Public ConnectionRequest	

Connector	Source	Target	Notes
ControlFlow TryToConnect Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow TryToConnect Source -> Destination	Public <anonymous>	Public <anonymous>	

<anonymous>

Type: **MergeNode**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure Keywords:

Detail: Created on 19/03/2013. Last modified on 19/03/2013.

GUID: {42CF8A92-718B-4fae-A840-6637A406151C}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public ActivityFinal	
ControlFlow Source -> Destination	Public SafeRadioIsConnected	Public <anonymous>	
ControlFlow Connection Failed Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow Connection Failed Source -> Destination	Public <anonymous>	Public <anonymous>	

ActivityFinal

Type: **ActivityFinal**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure Keywords:

Detail: Created on 12/03/2013. Last modified on 12/03/2013.

GUID: {A559B98F-29A3-4c49-8371-1113A2F295C9}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public ActivityFinal	

ActivityInitial**Type:** [ActivityInitial](#)**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** Created on 12/03/2013. Last modified on 12/03/2013.**GUID:** {0C636DB4-AAB1-42a4-8999-D028D8FF2F7A}***Custom Properties***

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public SafeRadioNoConnected	

SafeRadioConnectStatus**Type:** [Trigger](#)**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** Created on 20/03/2013. Last modified on 20/03/2013.**GUID:** {04AAEA3-1D0B-4656-9ADF-3CAD56A5CF22}***Custom Properties***

- kind = Signal

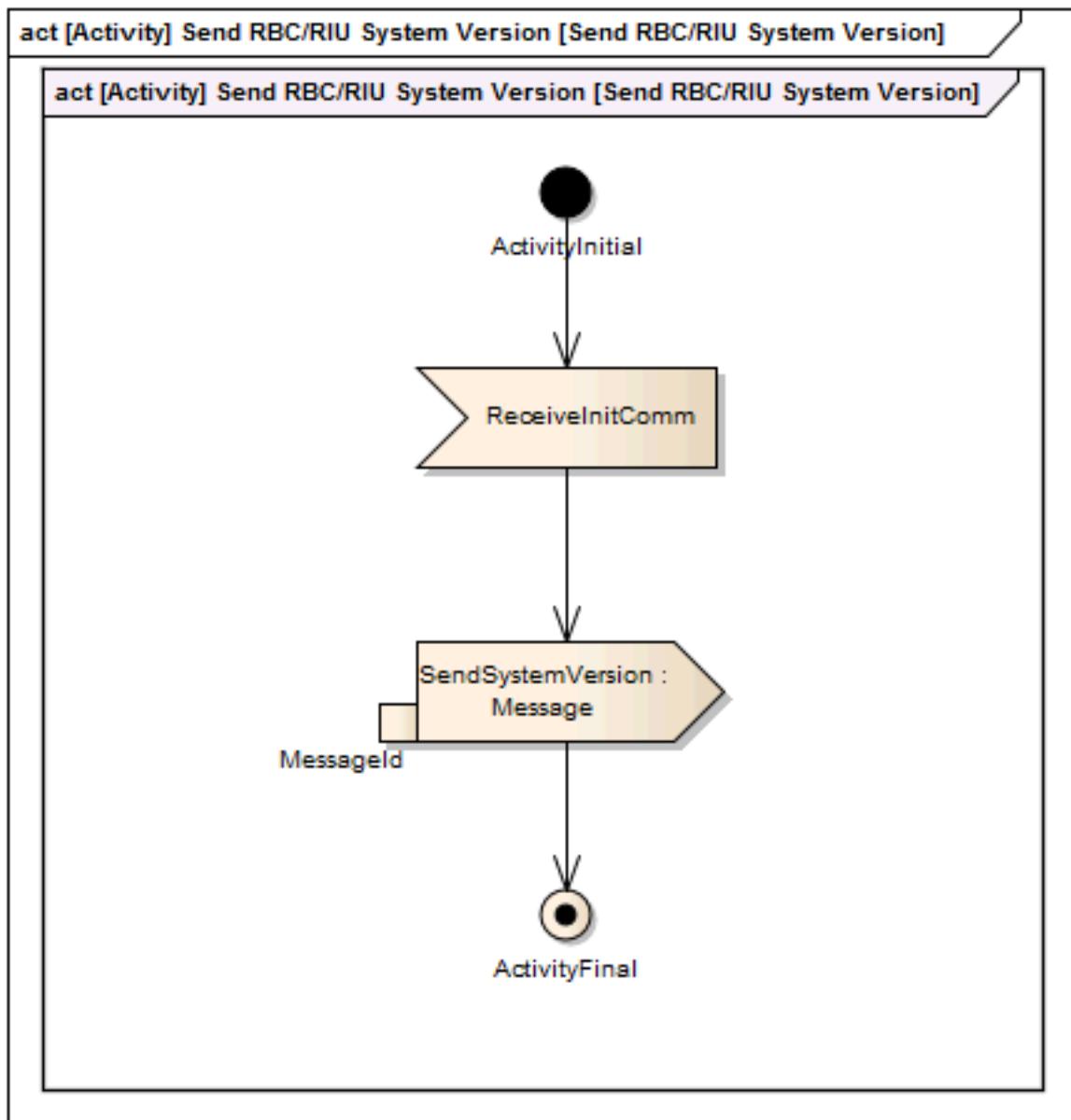
Send RBC/RIU System Version**Type:** [Activity](#)**Status:** Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure *Keywords:*
Detail: Created on 11/03/2013. Last modified on 18/03/2013.
GUID: {DD198619-43B2-463a-8970-E38E054AEBEE}

Custom Properties

- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =
- parameterName =

Activity diagram: Send RBC/RIU System Version



ReceiveInitComm

Type: **AcceptEventAction**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure **Keywords:**

Detail: Created on 26/03/2013. Last modified on 26/03/2013.

GUID: {2A52C820-5DD5-431a-805E-28CD45B408F7}

Custom Properties

- kind = AcceptEvent

Custom Properties

- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public ReceiveInitComm	
ControlFlow Source -> Destination	Public ReceiveInitComm	Public SendSystemVersion	

SendSystemVersion

Type: **SendSignalAction**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: System Behavior and structure *Keywords:*
 Detail: Created on 26/03/2013. Last modified on 26/03/2013.
 G UID: {B0F165BC-DAB9-4430-BD6E-97D28AB0827B}

Custom Properties

- kind = SendSignal
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ReceiveInitComm	Public SendSystemVersion	
ControlFlow Source -> Destination	Public SendSystemVersion	Public ActivityFinal	

Embedded Elements

Element	Detail	Notes
ActionPin MessageId	Version: 1.0	

Element	Detail	Notes
ActionPin target	Version: 1.0	

ActivityFinal

Type: [ActivityFinal](#)
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 26/03/2013. Last modified on 26/03/2013.*
GUID: {C9740370-21D8-40da-94EA-B74CED49527D}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public SendSystemVersion	Public ActivityFinal	

ActivityInitial

Type: [ActivityInitial](#)
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 26/03/2013. Last modified on 26/03/2013.*
GUID: {2884406F-69CB-4e1d-9EB7-BDCC5462851B}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public ReceiveInitComm	

InitComm

Type: **Trigger**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 26/03/2013. Last modified on 26/03/2013.
GUID: {2ED2595F-8556-4eba-B248-3287F153BB1A}

Custom Properties

- kind = Signal

StopSafeRadioConnectProc

Type: **Activity**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 19/03/2013. Last modified on 19/03/2013.
GUID: {42F41FF4-AE4F-4bb7-8416-9C410C3F86B5}

Custom Properties

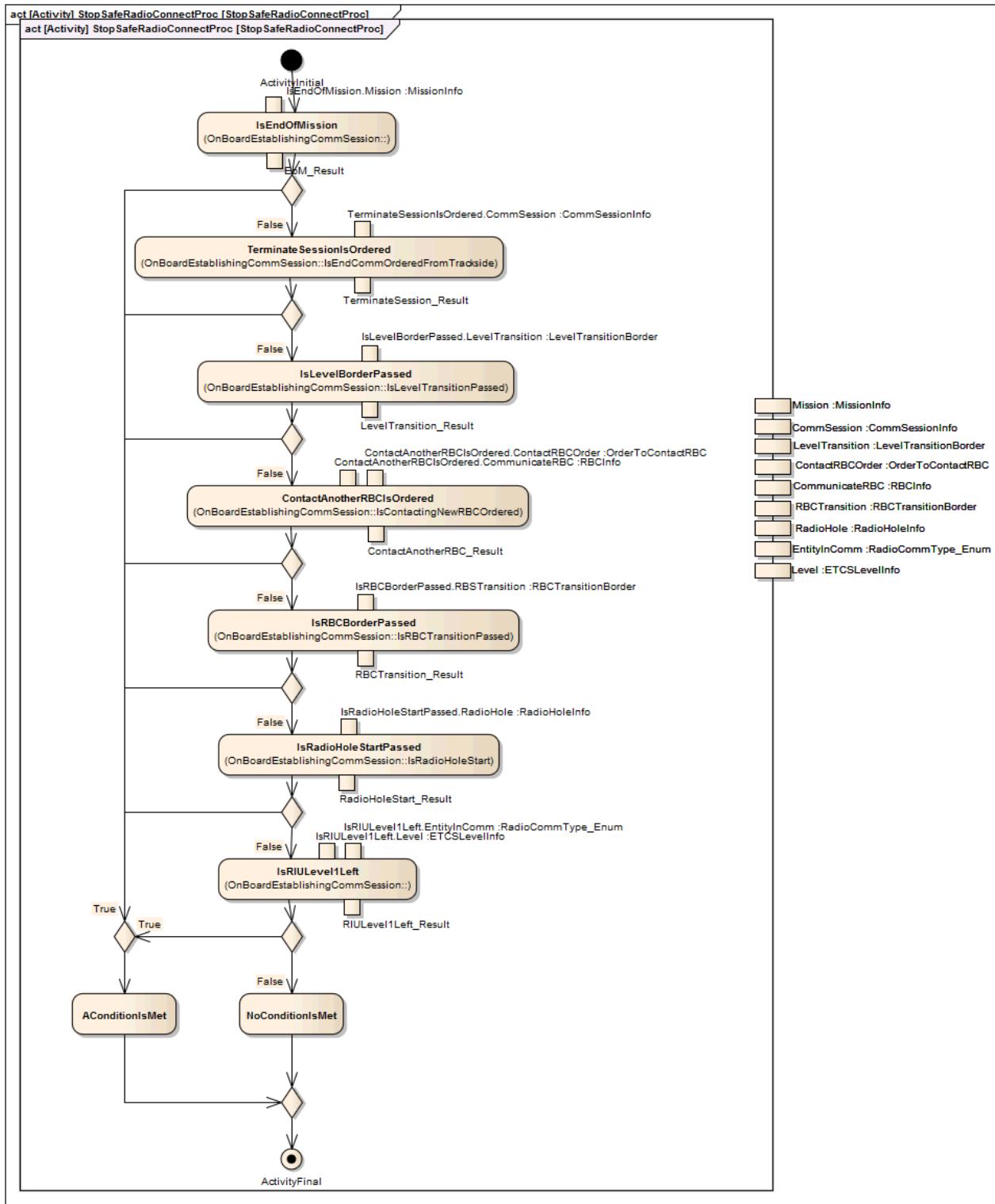
- parameterName = MissionInfo, CommSessionInfo, LevelTransitionBorder, OrderToContactRBC, RBCInfo, RBCTransitionBorder, RadioHoleInfo, RadioCommType_Enum, ETCSLevelInfo
- isReadOnly = False
- isSingleExecution = False
- postcondition =
- precondition =

Embedded Elements

Element	Detail	Notes
ActivityParameter Mission	Version: 1.0	
ActivityParameter CommSession	Version: 1.0	
ActivityParameter LevelTransition	Version: 1.0	
ActivityParameter ContactRBCOrder	Version: 1.0	
ActivityParameter CommunicateRBC	Version: 1.0	
ActivityParameter RBCTransition	Version: 1.0	
ActivityParameter RadioHole	Version: 1.0	

Element	Detail	Notes
ActivityParameter EntityInComm	Version: 1.0	
ActivityParameter Level	Version: 1.0	

Activity diagram: StopSafeRadioConnectProc



AConditionsMet

Type: Action

Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 19/03/2013. Last modified on 19/03/2013.
GUID: {AB7B402F-F306-4aa9-B722-568C80D677D1}

Custom Properties

- effect = StopConnection = true;
- context =
- kind =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public AConditionIsMet	
ControlFlow Source -> Destination	Public AConditionIsMet	Public <anonymous>	

ContactAnotherRBCIsOrdered

Type: **CallOperationAction**
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: Created on 19/03/2013. Last modified on 25/03/2013.
GUID: {397EDBF1-2818-422b-8C33-CF1DCE9F50CB}

Custom Properties

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ContactAnotherRBCIs Ordered	Public <anonymous>	

Connector	Source	Target	Notes
ControlFlow False Source -> Destination	Public <anonymous>	Public ContactAnotherRBCIs Ordered	

Embedded Elements

Element	Detail	Notes
ActionPin ContactAnotherRBC_ResultSet	Version: 1.0	
ActionPin ContactAnotherRBCIsOrdered.CommunicateRBC	Version: 1.0	
ActionPin ContactAnotherRBCIsOrdered.ContactRBCOrder	Version: 1.0	

IsEndOfMission**Type:** CallOperationAction**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 19/03/2013. Last modified on 25/03/2013.***GUID:** {9C209623-7A18-4330-816C-C9599689D5DB}***Custom Properties***

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public IsEndOfMission	
ControlFlow Source -> Destination	Public IsEndOfMission	Public <anonymous>	

Embedded Elements

Element	Detail	Notes
ActionPin EoM_Result	Version: 1.0	

Element	Detail	Notes
ActionPin IsEndOfMission.Mission	Version: 1.0	

IsLevelBorderPassed

Type: [CallOperationAction](#)

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure Keywords:

Detail: Created on 19/03/2013. Last modified on 25/03/2013.

GUID: {E3FBA810-28A2-4701-882E-C35A8D12C0E8}

Custom Properties

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public IsLevelBorderPassed	Public <anonymous>	
ControlFlow False Source -> Destination	Public <anonymous>	Public IsLevelBorderPassed	

Embedded Elements

Element	Detail	Notes
ActionPin		
LevelTransition_Result	Version: 1.0	

ActionPin IsLevelBorderPassed.Level Transition	Version: 1.0	
--	--------------	--

IsRadioHoleStartPassed

Type: [CallOperationAction](#)

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure Keywords:

Detail: Created on 19/03/2013. Last modified on 25/03/2013.

GUID: {043811D4-5070-4764-AFAA-89F161A8C696}

Custom Properties

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public IsRadioHoleStartPassed	Public <anonymous>	
ControlFlow False Source -> Destination	Public <anonymous>	Public IsRadioHoleStartPassed	

Embedded Elements

Element	Detail	Notes
ActionPin RadioHoleStart_Result	Version: 1.0	
ActionPin IsRadioHoleStartPassed.RadioHole	Version: 1.0	

IsRBCBorderPassed*Type:* **CallOperationAction***Status:* Proposed. Version 1.0. Phase 1.0.*Package:* System Behavior and structure *Keywords:**Detail:* Created on 19/03/2013. Last modified on 25/03/2013.*GUID:* {69AA36F5-6936-4d74-8622-DC291EEEB296}**Custom Properties**

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public IsRBCBorderPassed	Public <anonymous>	

Connector	Source	Target	Notes
ControlFlow False Source -> Destination	Public <anonymous>	Public IsRBCBorderPassed	

Embedded Elements

Element	Detail	Notes
ActionPin RBCTransition_Result	Version: 1.0	
ActionPin IsRBCBorderPassed.RBST transition	Version: 1.0	

IsRIULevel1Left

Type: [CallOperationAction](#)
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Behavior and structure **Keywords:**
Detail: *Created on 19/03/2013. Last modified on 25/03/2013.*
GUID: {628C327B-DDAF-40c4-89D1-382902155812}

Custom Properties

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public IsRIULevel1Left	Public <anonymous>	
ControlFlow False Source -> Destination	Public <anonymous>	Public IsRIULevel1Left	

Embedded Elements

Element	Detail	Notes
ActionPin RIULevel1Left_Result	Version: 1.0	
ActionPin IsRIULevel1Left.EntityInComm	Version: 1.0	

Element	Detail	Notes
ActionPin IsRIULevel1Left.Level	Version: 1.0	

NoConditionIsMet

Type: **Action**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure Keywords:

Detail: Created on 19/03/2013. Last modified on 19/03/2013.

GUID: {1DD092AC-B5C9-4c6b-9F6C-DDB176F67F2C}

Custom Properties

- effect = StopConnection = false;
- context =
- kind =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public NoConditionIsMet	Public <anonymous>	
ControlFlow False Source -> Destination	Public <anonymous>	Public NoConditionIsMet	

TerminateSessionsOrdered

Type: **CallOperationAction**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure Keywords:

Detail: Created on 19/03/2013. Last modified on 25/03/2013.

GUID: {0325FF5E-C02A-467e-96D2-6A2521074FD3}

Custom Properties

- kind = CallOperation
- context =
- effect =
- value =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public TerminateSessionIsOrdered	Public <anonymous>	
ControlFlow False Source -> Destination	Public <anonymous>	Public TerminateSessionIsOrdered	

Embedded Elements

Element	Detail	Notes
ActionPin TerminateSession_Result	Version: 1.0	
ActionPin TerminateSessionIsOrdered.CommSession	Version: 1.0	

<anonymous>**Type:** **DecisionNode****Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 19/03/2013. Last modified on 19/03/2013.***GUID:** {78D2BB3C-8E0F-4c82-ADA7-E249E51A1370}***Connections***

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public IsRIULevel1Left	Public <anonymous>	
ControlFlow False Source -> Destination	Public <anonymous>	Public NoConditionIsMet	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	

<anonymous>**Type:** **DecisionNode****Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** *Created on 19/03/2013. Last modified on 19/03/2013.*

GUID: {CD204236-2EA4-4e97-9BFF-A70B5B29AB6C}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public IsRBCBorderPassed	Public <anonymous>	
ControlFlow False Source -> Destination	Public <anonymous>	Public IsRadioHoleStartPassed	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	

<anonymous>

Type: DecisionNode

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure **Keywords:**

Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*

GUID: {E4CAC03B-F946-40b3-AB8B-126E38600F28}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public IsEndOfMission	Public <anonymous>	
ControlFlow False Source -> Destination	Public <anonymous>	Public TerminateSessionIsOrdered	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	

<anonymous>

Type: DecisionNode

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure **Keywords:**

Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*

GUID: {5CF7505E-AC2C-4e2e-A10D-28CA1F221350}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public TerminateSessionIsOrdered	Public <anonymous>	
ControlFlow False Source -> Destination	Public <anonymous>	Public IsLevelBorderPassed	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	

<anonymous>**Type:** [DecisionNode](#)**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure**Keywords:****Detail:** Created on 19/03/2013. Last modified on 19/03/2013.**GUID:** {DF7D8392-7573-4c67-AB9D-2696269C1C57}***Connections***

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ContactAnotherRBCIsOrdered	Public <anonymous>	
ControlFlow False Source -> Destination	Public <anonymous>	Public IsRBCBorderPassed	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	

<anonymous>**Type:** [DecisionNode](#)**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure**Keywords:****Detail:** Created on 19/03/2013. Last modified on 19/03/2013.**GUID:** {6BAA0FD4-340F-453b-B319-53B3E370655E}***Connections***

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public IsRadioHoleStartPassed	Public <anonymous>	
ControlFlow False Source -> Destination	Public <anonymous>	Public IsRIULevel1Left	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	

<anonymous>

Type: **DecisionNode**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure

Keywords:

Detail: Created on 19/03/2013. Last modified on 19/03/2013.

GUID: {2940B4C2-9259-4543-8663-8A1092C72E4F}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public IsLevelBorderPassed	Public <anonymous>	
ControlFlow False Source -> Destination	Public <anonymous>	Public ContactAnotherRBCIs Ordered	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	

<anonymous>

Type: **MergeNode**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure

Keywords:

Detail: Created on 19/03/2013. Last modified on 19/03/2013.

GUID: {243B581B-0B7E-411c-82CA-4936944DE582}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public NoConditionIsMet	Public <anonymous>	

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public ActivityFinal	
ControlFlow Source -> Destination	Public AConditionIsMet	Public <anonymous>	

<anonymous>

Type: **MergeNode**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure *Keywords:*

Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*

GUID: {D3A911BF-727C-428a-B6E3-EF644E13F7D2}

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public AConditionIsMet	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	
ControlFlow True Source -> Destination	Public <anonymous>	Public <anonymous>	

ActivityFinal

Type: **ActivityFinal**

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure *Keywords:*

Detail: *Created on 19/03/2013. Last modified on 19/03/2013.*

GUID: {7120A929-8DD1-426f-BB4C-CE5EC559D0F0}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public <anonymous>	Public ActivityFinal	

ActivityInitial

Type: ActivityInitial

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure **Keywords:**

Detail: Created on 19/03/2013. Last modified on 19/03/2013.

GUID: {3F1AFED9-6B0B-45f1-B6C0-B15E159E77CE}

Custom Properties

- kind =

Connections

Connector	Source	Target	Notes
ControlFlow Source -> Destination	Public ActivityInitial	Public IsEndOfMission	

RegisteringRadioNetwork

Type: Block

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Behavior and structure **Keywords:**

Detail: Created on 08/03/2013. Last modified on 28/03/2013.

GUID: {425001CB-FE1E-437c-8D2B-87840A1E8F63}

Custom Properties

Custom Properties

- _defaultDiagramType = SysML1.3::InternalBlock
- isActive = False

Tagged Values

- isEncapsulated = .
Values: true,false

Connections

Connector	Source	Target	Notes
Aggregation Source -> Destination	Public RegisteringRadioNetwo rk	Public ManageCommSession	

SafeRadioConnection

Type: Block**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** System Behavior and structure **Keywords:****Detail:** Created on 08/03/2013. Last modified on 28/03/2013.**GUID:** {A1EA466C-9629-4f47-99C1-F9896A4601FA}**Custom Properties**

- _defaultDiagramType = SysML1.3::InternalBlock
- isActive = False

Tagged Values

- isEncapsulated = .
Values: true,false

Connections

Connector	Source	Target	Notes
Aggregation Source -> Destination	Public SafeRadioConnection	Public ManageCommSession	

TerminatingCommSession

<i>Type:</i>	Block
<i>Status:</i>	Proposed. Version 1.0. Phase 1.0.
<i>Package:</i>	System Behavior and structure
<i>Detail:</i>	<i>Created on 08/03/2013. Last modified on 28/03/2013.</i>
<i>GUID:</i>	{F52BE303-B7DB-48be-90ED-F057B4433653}

Custom Properties

- _defaultDiagramType = SysML1.3::InternalBlock
- isActive = False

Tagged Values

- isEncapsulated = .
Values: true,false

Connections

Connector	Source	Target	Notes
Aggregation Source -> Destination	Public TerminatingCommSession	Public ManageCommSession	

System Requirements

<i>Type:</i>	Package
<i>Status:</i>	Proposed. Version 1.0. Phase 1.0.
<i>Package:</i>	System
<i>Detail:</i>	<i>Created on 07/03/2013. Last modified on 03/04/2013</i>
<i>GUID:</i>	{182841A9-3092-4290-BBD8-23B98134C217}

System Principles Req - (SysML Requirements diagram)

<i>Created By:</i>	Bardot on 07/03/2013
<i>Last Modified:</i>	07/03/2013
<i>Version:</i>	1.0. <i>Locked:</i> False
<i>GUID:</i>	{AAFCDF28F-2CEB-42a8-8F27-2FD2B2276866}

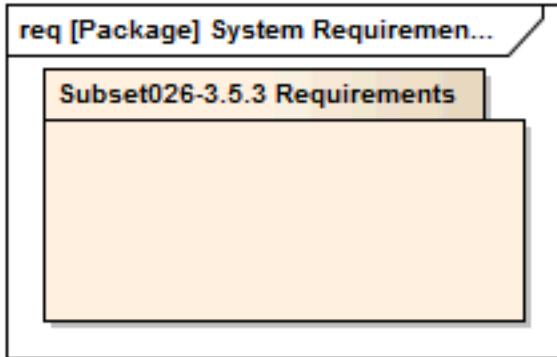


Figure: 6

Subset026-3.5.3 Requirements

Type: Package
Status: Proposed. Version 1.0. Phase 1.0.
Package: System Requirements
Detail: *Created on 07/03/2013. Last modified on 07/03/2013*
GUID: {53452EC4-C105-4fae-8E7C-EDB593B6ADA6}
Establishing a communication session

Subset026-3.5.3 Requirements - (SysML Requirements diagram)

Created By: Bardot on 07/03/2013
Last Modified: 28/03/2013
Version: 1.0. *Locked:* False
GUID: {DB3338BB-FFBD-4e7c-883A-8BB4BB64FAA6}

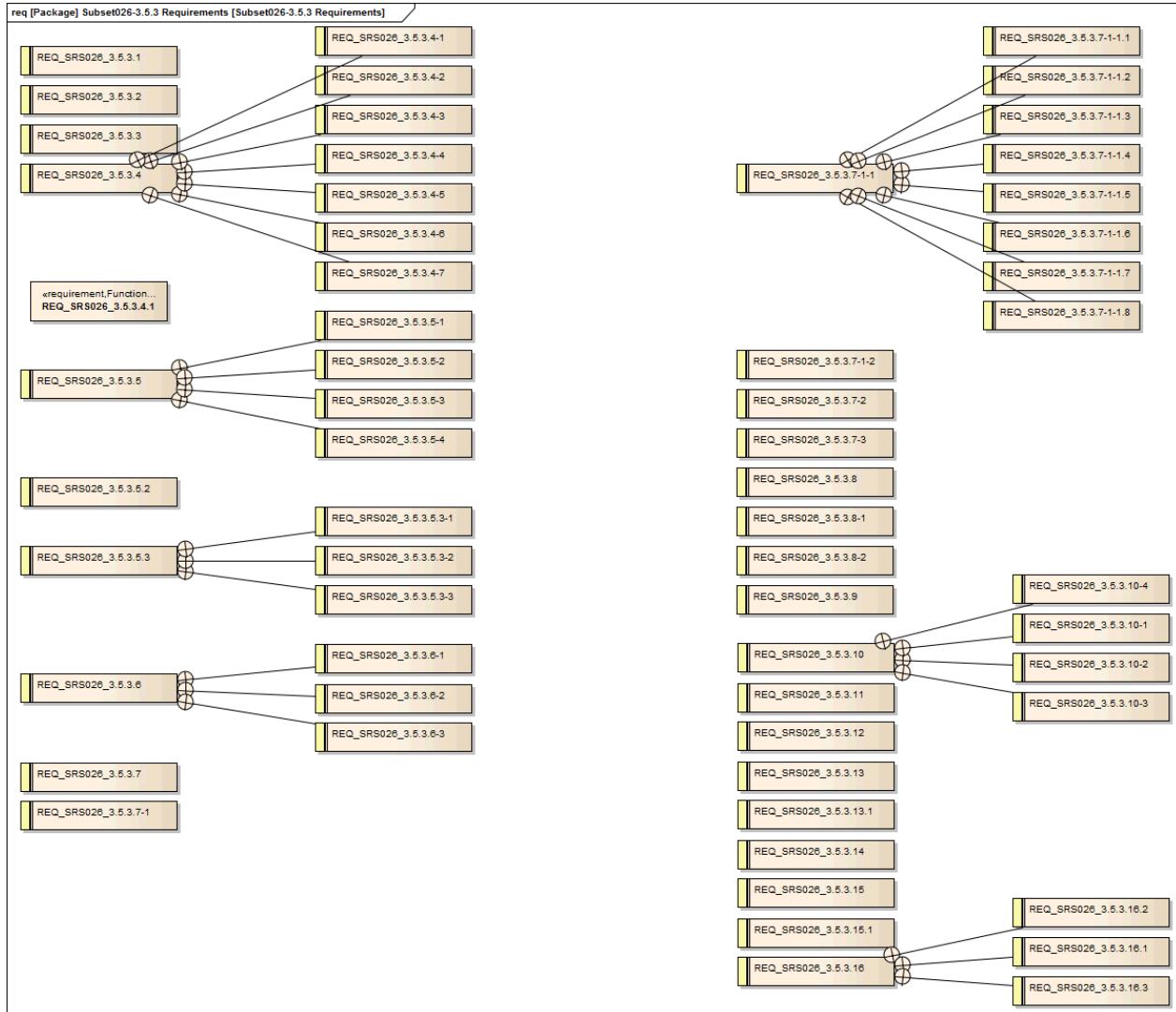


Figure: 7

REQ_SRS026_3.5.3.1

Type: Requirement
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: Created on 07/03/2013. Last modified on 07/03/2013.
GUID: {B09A8EDB-5E7F-41b0-ACAE-774B5C5423F8}

It shall be possible for ERTMS/ETCS on-board equipment and RBC to initiate a communication session.

REQ_SRS026_3.5.3.10

Type: Requirement
Status: Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: Created on 07/03/2013. Last modified on 07/03/2013.
GUID: {0AC7904B-8E4D-46b8-855F-144506567206}

If the establishment of a communication session is initiated by the RBC, it shall be performed according to the following steps:

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.10 -4	Public REQ_SRS026_3.5.3.10	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.10 -1	Public REQ_SRS026_3.5.3.10	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.10 -2	Public REQ_SRS026_3.5.3.10	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.10 -3	Public REQ_SRS026_3.5.3.10	

REQ_SRS026_3.5.3.10-1

Type: Requirement
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: Created on 07/03/2013. Last modified on 07/03/2013.
GUID: {C0F2BDA6-DCBF-4da8-ACF1-1D617AD62063}

- a) The trackside shall request the set-up of a safe radio connection with the on-board.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.10 -1	Public REQ_SRS026_3.5.3.10	

REQ_SRS026_3.5.3.10-2

Type: Requirement
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: Created on 07/03/2013. Last modified on 07/03/2013.
GUID: {0AA6B67B-70F1-4ba8-B630-808D6D4AABEE}

- b) As soon as the safe radio connection is set-up, the trackside shall send the message Initiation of communication session to the on-board.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.10 -2	Public REQ_SRS026_3.5.3.10	

REQ_SRS026_3.5.3.10-3

Type: Requirement

Status: Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements **Keywords:**

Detail: *Created on 07/03/2013. Last modified on 07/03/2013.*

GUID: {77A59923-ABA9-44f3-9867-8C8918EAAC8F}

- c) When the on-board receives the information, it shall consider the communication session established and send a session established report to the trackside.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.10 -3	Public REQ_SRS026_3.5.3.10	

REQ_SRS026_3.5.3.10-4

Type: Requirement

Status: Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements **Keywords:**

Detail: *Created on 07/03/2013. Last modified on 07/03/2013.*

GUID: {EF34A366-3DC5-4551-B10E-E821848DD6E6}

- d) When the trackside receives the session established report, it shall consider the communication session established.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.10 -4	Public REQ_SRS026_3.5.3.10	

REQ_SRS026_3.5.3.11

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{6DE16852-2BBB-44e3-BA7F-7D11F762EAA7}

In case the RBC is the initiator, the first message from RBC to on-board shall have the time-stamp and the LRBG identity set to "unknown".

REQ_SRS026_3.5.3.12

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{F5AE4573-812C-4a36-910D-AED8DF1DD187}

Note: In the case the RBC is the initiator, there is no need to verify the compatibility of the system versions and for the on-board to send its telephone numbers, because the on-board is obviously already known to the RBC.

REQ_SRS026_3.5.3.13

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{CD40F301-785E-4502-BAAF-E58C511885A6}

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.

REQ_SRS026_3.5.3.13.1

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{FA73E2AB-FBE1-4a92-A9BD-87EEC9A082D7}

If there is no RBC ID/ phone number stored on-board, the order to contact the RBC shall be ignored.

REQ_SRS026_3.5.3.14

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{A4FAF6C7-3261-4e64-82EC-4E3F50D52A29}

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.

REQ_SRS026_3.5.3.15

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{8FB90650-D896-414c-BF78-20AC91BB9111}

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.

REQ_SRS026_3.5.3.15.1

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{5D7F1236-32CD-4471-BE35-4C3A8D288289}

Note: The on-board stored short number for calling the RBC is defined by EIRENE.

REQ_SRS026_3.5.3.16

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{AAFA0599-FF3F-42c7-B462-7C4B7DA8A426}

Train reaction to balise data content

Connections

Connector	Source	Target	Notes
Nesting	Public	Public	

Connector	Source	Target	Notes
Source -> Destination	REQ_SRS026_3.5.3.16 .2	REQ_SRS026_3.5.3.16	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.16 .3	Public REQ_SRS026_3.5.3.16	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.16 .1	Public REQ_SRS026_3.5.3.16	

REQ_SRS026_3.5.3.16.1

Type: Requirement

Status: Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements **Keywords:**

Detail: Created on 07/03/2013. Last modified on 07/03/2013.

GUID: {E6353DB0-2284-4be1-ABE2-B869E52109FF}

Balise Data Content :

Order to contact RBC

Special value for RBC ID

Contact last known RBC

RBC Phone number irrelevant

Train Reaction :

Contact last known RBC (order is ignored in case no RBC ID/ phone number is stored on-board)

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.16 .1	Public REQ_SRS026_3.5.3.16	

REQ_SRS026_3.5.3.16.2

Type: Requirement

Status: Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements **Keywords:**

Detail: Created on 07/03/2013. Last modified on 07/03/2013.

GUID: {C2639882-86BF-42b1-9FC5-54C7AB81E490}

Balise Data Content :

Order to contact RBC

RBC ID

Special value for RBC phone number: use on-board stored short number

Train Reaction :

Contact given RBC by using RBC ID and the on-board short number.

Note: If the short number does not direct to the RBC with the given RBC ID, the connection will be terminated (EURORADIO functionality).

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.16 .2	Public REQ_SRS026_3.5.3.16	

REQ_SRS026_3.5.3.16.3**Type:** **Requirement****Status:** Proposed. Version 1.0. Phase 1.0.**Package:** Subset026-3.5.3 Requirements **Keywords:****Detail:** *Created on 07/03/2013. Last modified on 07/03/2013.***GUID:** {AD40A73C-6C70-46e4-B826-B6D204D64AF5}

Balise Data Content :

Order to contact RBC

RBC ID + RBC phone number

Train Reaction :

Contact given RBC by using RBC ID and the RBC phone number

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.16 .3	Public REQ_SRS026_3.5.3.16	

REQ_SRS026_3.5.3.2**Type:** **Requirement****Status:** Proposed. Version 1.0. Phase 1.0.**Package:** Subset026-3.5.3 Requirements **Keywords:****Detail:** *Created on 07/03/2013. Last modified on 07/03/2013.***GUID:** {6009C058-1598-48c7-B670-5C19AA7FF4E4}

A Radio Infill Unit (see section 3.9.3) shall never initiate a communication session.

REQ_SRS026_3.5.3.3**Type:** **Requirement****Status:** Proposed. Version 1.0. Phase 1.0.**Package:** Subset026-3.5.3 Requirements **Keywords:****Detail:** *Created on 07/03/2013. Last modified on 07/03/2013.***GUID:** {F06D9E61-01F3-4937-8130-AFEA50809344}

Note: Only communication sessions between an ERTMS/ETCS on-board equipment and a trackside equipment (RBC or Radio Infill Unit) are considered here.

REQ_SRS026_3.5.3.4

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: Created on 07/03/2013. Last modified on 28/03/2013.
GUID: {8E2B7624-491E-4c9a-BBD3-360A07E4AAE0}

The on-board shall establish a communication session

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.4-1	Public REQ_SRS026_3.5.3.4	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.4-2	Public REQ_SRS026_3.5.3.4	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.4-3	Public REQ_SRS026_3.5.3.4	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.4-4	Public REQ_SRS026_3.5.3.4	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.4-5	Public REQ_SRS026_3.5.3.4	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.4-6	Public REQ_SRS026_3.5.3.4	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.4-7	Public REQ_SRS026_3.5.3.4	
Realization Source -> Destination	Public OnBoard	Public REQ_SRS026_3.5.3.4	
Realization Source -> Destination	Public TrackSide	Public REQ_SRS026_3.5.3.4	
Realization	Public	Public	

Connector	Source	Target	Notes
Source -> Destination	Action01	REQ_SRS026_3.5.3.4	

REQ_SRS026_3.5.3.4-1

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: *Created on 07/03/2013. Last modified on 07/03/2013.*
GUID: {14670FAA-D525-4110-B555-9D634D7B40A4}

a) At Start of Mission (only if level 2 or 3).

Connections

Connector	Source	Target	Notes
<u>Nesting</u> Source -> Destination	Public REQ_SRS026_3.5.3.4-1	Public REQ_SRS026_3.5.3.4	

REQ_SRS026_3.5.3.4-2

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: *Created on 07/03/2013. Last modified on 28/03/2013.*
GUID: {9B36248E-999F-479b-B7BD-D7935FA1B868}

b) If ordered from trackside.

Connections

Connector	Source	Target	Notes
<u>Nesting</u> Source -> Destination	Public REQ_SRS026_3.5.3.4-2	Public REQ_SRS026_3.5.3.4	

REQ_SRS026_3.5.3.4-3

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: *Created on 07/03/2013. Last modified on 07/03/2013.*
GUID: {E9048F9C-7FB2-4e0f-A683-1ED12AE79A03}

c) If a mode change, not considered as an End of Mission, has to be reported to the RBC (only if level 2 or 3)

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.4-3	Public REQ_SRS026_3.5.3.4	

REQ_SRS026_3.5.3.4-4**Type:****Requirement****Status:** Proposed. Version 1.0. Phase 1.0.**Package:** Subset026-3.5.3 Requirements **Keywords:****Detail:** *Created on 07/03/2013. Last modified on 07/03/2013.***GUID:** {6534F019-A4A9-48c1-811F-4BDACDA7208C}

d) If the driver has manually changed the level to 2 or 3

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.4-4	Public REQ_SRS026_3.5.3.4	

REQ_SRS026_3.5.3.4-5**Type:****Requirement****Status:** Proposed. Version 1.0. Phase 1.0.**Package:** Subset026-3.5.3 Requirements **Keywords:****Detail:** *Created on 07/03/2013. Last modified on 07/03/2013.***GUID:** {38F1F72F-83FF-48c4-BB9D-D2AFE1E2D80B}

e) When the train front reaches the end of an announced radio hole

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.4-5	Public REQ_SRS026_3.5.3.4	

REQ_SRS026_3.5.3.4-6**Type:****Requirement****Status:** Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: Created on 07/03/2013. Last modified on 07/03/2013.
GUID: {EB4CF149-C7DE-4b7d-A6FA-882CB84FA5BC}

f) When the previous communication session is considered as terminated due to loss of safe radio connection (refer to 3.5.4.2.1)

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.4-6	Public REQ_SRS026_3.5.3.4	

REQ_SRS026_3.5.3.4-7

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: Created on 07/03/2013. Last modified on 07/03/2013.
GUID: {1898B48B-9E5E-4e2f-B50F-A36CCB6AA3EB}

g) When a Start of Mission procedure, during which no communication session could be established, is completed in level 2 or 3

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.4-7	Public REQ_SRS026_3.5.3.4	

REQ_SRS026_3.5.3.4.1

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: Created on 28/03/2013. Last modified on 28/03/2013.
GUID: {47148ED5-BB71-4039-BC84-5C1878B040AE}

In respect of a), b), c), d) and e) of 3.5.3.4, the on-board shall not establish a new communication session with an RBC/RIU in case a communication session is currently being established or is already established with this RBC/RIU.

REQ_SRS026_3.5.3.5

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: *Created on 07/03/2013. Last modified on 07/03/2013.*
GUID: {74EADAE0-A971-4c4d-AE69-B37D934BCF45}

The order to contact an RBC shall include

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5-1	Public REQ_SRS026_3.5.3.5	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5-2	Public REQ_SRS026_3.5.3.5	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5-3	Public REQ_SRS026_3.5.3.5	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5-4	Public REQ_SRS026_3.5.3.5	

REQ_SRS026_3.5.3.5-1

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: *Created on 07/03/2013. Last modified on 07/03/2013.*
GUID: {A83E3B46-F5C3-4478-86CA-17287E2DEA30}

- a) The identity of the RBC.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5-1	Public REQ_SRS026_3.5.3.5	

REQ_SRS026_3.5.3.5-2

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: *Created on 07/03/2013. Last modified on 07/03/2013.*

GUID: {53A88534-ABAE-4183-B8C7-8831F589B289}

- b) The telephone number of the RBC.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5-2	Public REQ_SRS026_3.5.3.5	

REQ_SRS026_3.5.3.5-3

Type: Requirement

Status: Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements **Keywords:**

Detail: Created on 07/03/2013. Last modified on 07/03/2013.

GUID: {A87D50CA-F38D-473f-9D64-5E1CA3B24B87}

- c) The action to be performed (establish/terminate the session).

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5-3	Public REQ_SRS026_3.5.3.5	

REQ_SRS026_3.5.3.5-4

Type: Requirement

Status: Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements **Keywords:**

Detail: Created on 07/03/2013. Last modified on 07/03/2013.

GUID: {604D9F47-9DBB-41c7-BA4E-388EC456B7B4}

- d) Whether this applies also to Sleeping units.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5-4	Public REQ_SRS026_3.5.3.5	

REQ_SRS026_3.5.3.5.2

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{8C21197C-DCA3-4164-82D1-D81A5E703F80}

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.

REQ_SRS026_3.5.3.5.3

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{7263D3D1-028F-4841-815C-5A7E859E2B97}

The order to contact an Accepting RBC shall be part of the RBC transition order and shall include:

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5. 3-2	Public REQ_SRS026_3.5.3.5. 3	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5. 3-3	Public REQ_SRS026_3.5.3.5. 3	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5. 3-1	Public REQ_SRS026_3.5.3.5. 3	

REQ_SRS026_3.5.3.5.3-1

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{554060B5-82E5-4a2a-8BE3-CB8789537CE0}

- a) The identity of the Accepting RBC.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5. 3-1	Public REQ_SRS026_3.5.3.5. 3	

REQ_SRS026_3.5.3.5.3-2**Type:** **Requirement****Status:** Proposed. Version 1.0. Phase 1.0.**Package:** Subset026-3.5.3 Requirements **Keywords:****Detail:** *Created on 07/03/2013. Last modified on 07/03/2013.***GUID:** {BAD4961B-ABEB-4bc6-8715-F77571E2887B}

- b) The telephone number of the Accepting RBC.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5. 3-2	Public REQ_SRS026_3.5.3.5. 3	

REQ_SRS026_3.5.3.5.3-3**Type:** **Requirement****Status:** Proposed. Version 1.0. Phase 1.0.**Package:** Subset026-3.5.3 Requirements **Keywords:****Detail:** *Created on 07/03/2013. Last modified on 07/03/2013.***GUID:** {2CF28DFD-E773-4e9d-A8F9-D3EA55827335}

- c) Whether this applies also to Sleeping unit.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.5. 3-3	Public REQ_SRS026_3.5.3.5. 3	

REQ_SRS026_3.5.3.6**Type:** **Requirement****Status:** Proposed. Version 1.0. Phase 1.0.**Package:** Subset026-3.5.3 Requirements **Keywords:****Detail:** *Created on 07/03/2013. Last modified on 07/03/2013.*

GUID: {1DE1B8A9-04BD-4bc8-899A-6CB207B34024}

The order to contact a Radio Infill Unit shall include

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.6-1	Public REQ_SRS026_3.5.3.6	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.6-2	Public REQ_SRS026_3.5.3.6	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.6-3	Public REQ_SRS026_3.5.3.6	

REQ_SRS026_3.5.3.6-1

Type: Requirement

Status: Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements **Keywords:**

Detail: Created on 07/03/2013. Last modified on 07/03/2013.

GUID: {F83B4FA8-75F5-4c9b-9131-98B7A4DBFC76}

- a) The identity of the Radio Infill Unit

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.6-1	Public REQ_SRS026_3.5.3.6	

REQ_SRS026_3.5.3.6-2

Type: Requirement

Status: Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements **Keywords:**

Detail: Created on 07/03/2013. Last modified on 07/03/2013.

GUID: {970176F5-F068-45b6-8FC2-38EF8997A9E2}

- b) The telephone number of the Radio Infill Unit

Connections

Connector	Source	Target	Notes
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Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.6-2	Public REQ_SRS026_3.5.3.6	

REQ_SRS026_3.5.3.6-3

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: *Created on 07/03/2013. Last modified on 07/03/2013.*
GUID: {46C03226-83EE-4df9-AA00-77D49DEF2043}

- c) The action to be performed (establish/terminate the session).

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.6-3	Public REQ_SRS026_3.5.3.6	

REQ_SRS026_3.5.3.7

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: *Created on 07/03/2013. Last modified on 07/03/2013.*
GUID: {E3B31FBE-EFC5-4f12-BD19-39B5A7736427}

If the establishment of a communication session is initiated by the on-board, it shall be performed according to the following steps:

REQ_SRS026_3.5.3.7-1

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements **Keywords:**
Detail: *Created on 07/03/2013. Last modified on 07/03/2013.*
GUID: {5ACFD9C9-49B7-40e5-8A41-83DCAE0E62F0}

- a) The on-board shall request the set-up of a safe radio connection with the trackside. If this request is part of an on-going Start of Mission procedure, it shall be repeated until successful or a defined number of times (see Appendix A3.1).

REQ_SRS026_3.5.3.7-1-1

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{262DEB66-92A8-4fe1-B8E9-7464544769B2}

If this request is not part of an on-going Start of Mission procedure, it shall be repeated until at least one of the following conditions is met:

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.8	Public REQ_SRS026_3.5.3.7-1-1	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.2	Public REQ_SRS026_3.5.3.7-1-1	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.4	Public REQ_SRS026_3.5.3.7-1-1	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.5	Public REQ_SRS026_3.5.3.7-1-1	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.6	Public REQ_SRS026_3.5.3.7-1-1	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.3	Public REQ_SRS026_3.5.3.7-1-1	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.1	Public REQ_SRS026_3.5.3.7-1-1	
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.7	Public REQ_SRS026_3.5.3.7-1-1	

REQ_SRS026_3.5.3.7-1-1.1

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{326EF062-6CD2-498e-96C6-6E8EA9444731}

- Safe radio connection is set up

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.1	Public REQ_SRS026_3.5.3.7-1-1	

REQ_SRS026_3.5.3.7-1-1.2**Type:****Requirement****Status:**

Proposed. Version 1.0. Phase 1.0.

Package:

Subset026-3.5.3 Requirements

Keywords:**Detail:**

Created on 07/03/2013. Last modified on 07/03/2013.

GUID:

{8DFFCD04-8C80-463d-8701-CF586C69AD40}

- End of Mission is performed

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.2	Public REQ_SRS026_3.5.3.7-1-1	

REQ_SRS026_3.5.3.7-1-1.3**Type:****Requirement****Status:**

Proposed. Version 1.0. Phase 1.0.

Package:

Subset026-3.5.3 Requirements

Keywords:**Detail:**

Created on 07/03/2013. Last modified on 07/03/2013.

GUID:

{C5650B17-60B7-48ca-BA8A-A2EB7BF49551}

- Order to terminate communication session is received from trackside

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.3	Public REQ_SRS026_3.5.3.7-1-1	

REQ_SRS026_3.5.3.7-1-1.4

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{B53471F0-6F74-49ad-88A7-BFC81E22C064}

- The train passes a level transition border (from level 2/3 to level 0, NTC, 1) with its front end.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.4	Public REQ_SRS026_3.5.3.7-1-1	

REQ_SRS026_3.5.3.7-1-1.5

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{9FD1C8E0-8522-4930-93FE-31CAD97E32A0}

- Order to establish communication session with a different RBC is received from trackside and the order does not request to contact an Accepting RBC.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.5	Public REQ_SRS026_3.5.3.7-1-1	

REQ_SRS026_3.5.3.7-1-1.6

Type:	Requirement
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Subset026-3.5.3 Requirements
Detail:	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
GUID:	{3F188BE5-61BE-420c-B388-D8889F6C9371}

- The train passes a RBC/RBC border with its front end.

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-	Public REQ_SRS026_3.5.3.7-	

Connector	Source	Target	Notes
	1-1.6	1-1	

REQ_SRS026_3.5.3.7-1-1.7

Type: **Requirement**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements

Keywords:

Detail: Created on 07/03/2013. Last modified on 07/03/2013.

GUID: {4B877500-389A-4330-A1EF-43FA064FF924}

- The train front passes the start of an announced radio hole

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.7	Public REQ_SRS026_3.5.3.7-1-1	

REQ_SRS026_3.5.3.7-1-1.8

Type: **Requirement**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements

Keywords:

Detail: Created on 07/03/2013. Last modified on 07/03/2013.

GUID: {874C8625-0B9F-490b-ACFE-74FE4D165375}

- Regards RIUs only: Level 1 is left

Connections

Connector	Source	Target	Notes
Nesting Source -> Destination	Public REQ_SRS026_3.5.3.7-1-1.8	Public REQ_SRS026_3.5.3.7-1-1	

REQ_SRS026_3.5.3.7-1-2

Type: **Requirement**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Subset026-3.5.3 Requirements

Keywords:

Detail: Created on 07/03/2013. Last modified on 07/03/2013.

GUID: {B554FD8A-C155-47d3-9198-C8D6664C53F6}

A request shall be repeated immediately after EURORADIO has indicated that setting up the safe radio connection

has failed.

REQ_SRS026_3.5.3.7-2

<i>Type:</i>	Requirement
<i>Status:</i>	Proposed. Version 1.0. Phase 1.0.
<i>Package:</i>	Subset026-3.5.3 Requirements
<i>Detail:</i>	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
<i>GUID:</i>	{31A33CB5-F577-4a34-B169-5331D112B14E}

- b) As soon as the safe radio connection is set-up, the on-board shall send the message Initiation of communication session to the trackside.

REQ_SRS026_3.5.3.7-3

<i>Type:</i>	Requirement
<i>Status:</i>	Proposed. Version 1.0. Phase 1.0.
<i>Package:</i>	Subset026-3.5.3 Requirements
<i>Detail:</i>	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
<i>GUID:</i>	{DB0547C9-1055-42fe-A267-A6D4250C9DA6}

- c) As soon as the trackside receives the information, it shall send the system version.

REQ_SRS026_3.5.3.8

<i>Type:</i>	Requirement
<i>Status:</i>	Proposed. Version 1.0. Phase 1.0.
<i>Package:</i>	Subset026-3.5.3 Requirements
<i>Detail:</i>	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
<i>GUID:</i>	{4D03183F-2CD7-4ae3-9B09-0E6058662D95}

When the on-board receives the system version it shall consider the communication session established and:

REQ_SRS026_3.5.3.8-1

<i>Type:</i>	Requirement
<i>Status:</i>	Proposed. Version 1.0. Phase 1.0.
<i>Package:</i>	Subset026-3.5.3 Requirements
<i>Detail:</i>	<i>Created on 07/03/2013. Last modified on 07/03/2013.</i>
<i>GUID:</i>	{22C4A5B9-B40C-4d04-99CE-C702A8965230}

- a) If one of its supported system versions is compatible with the one sent by trackside, it shall send a session established report, including its telephone numbers, to the trackside.

REQ_SRS026_3.5.3.8-2

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements *Keywords:*
Detail: *Created on 07/03/2013. Last modified on 07/03/2013.*
GUID: {C24D2D32-67B1-45d1-8AF3-49634F6DB523}

b) If none of its supported system versions is compatible with the one sent by trackside, it shall send a version independent message indicating “No compatible version supported”. It shall inform the driver and shall terminate the communication session.

REQ_SRS026_3.5.3.9

Type: **Requirement**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Subset026-3.5.3 Requirements *Keywords:*
Detail: *Created on 07/03/2013. Last modified on 07/03/2013.*
GUID: {6A394F94-7AB6-45b9-A927-C24AEF0CA915}

When the trackside receives the session established report or the information that no compatible system version is supported by the on-board, it shall consider the communication session established.