



EULYNX Initiative

Requirements specification for SCI-CC

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| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|---|--------------------|---------|----------|---|
| Eu.CC.1 | Head | 1 Introduction | | Default | | |
| Eu.CC.889 | Head | 1.1 Release Information | | Default | | |
| Eu.CC.903 | Info | [Eu.Doc.49] Requirements specification for SCI-CC CENELEC Phase: 4 Version: 4.2 (2.A) Approval date: 02.06.2025 | | Default | | Object Text: [Eu.Doc.49] Requirements specification for SCI-CC CENELEC Phase: 4 Version: 4.2 (1 2.A) Approval date: 02.06.2025 |
| Eu.CC.904 | Info | Version history | | Default | | |
| Eu.CC.1940 | Info | version number: 4.0 (0.A) date: 16.05.2022 author: Dominik Smajgl, Filip Giering model version: 18 Generic interface and subsystem requirements for SCI version: 1.0 (0.A) review: CCB changes: EUCC-225, EUCC-226, EUCC-227, EUCC-228, EUCC-229, EUCC-230, EUCC-231, EUCC-238, EUCC-239 | | Default | | |
| Eu.CC.2079 | Info | version number: 4.1 (0.A) date: 16.03.2023 author: Dominik Smajgl, Filip Giering, Philipp Wolber model version: 21 Generic interface and subsystem requirements for SCI version: 1.0 (0.A) review: - changes: EUCC-240, EUCC-242, EUCC-243, EUCC-246, EUCC-247, EUCC-248, EUCC-250, EUCC-251, EUCC-253, EUCC-255, EUCC-260 | | Default | | |
| Eu.CC.2085 | Info | version number: 4.2 (0.A) date: 26.06.2023 author: Dominik Smajgl, Filip Giering model version: 22 Generic interface and subsystem requirements version: 4.0 (3.A) Generic interface and subsystem requirements for SCI version: 1.0 (3.A) review: CCB changes: EUCC-261, EUCC-262, EUCC-263, EUCC-265, EUCC-267, EUCC-269 | | Default | | |
| Eu.CC.2086 | Info | version number: 4.2 (1.A) date: 15.12.2023 author: Dominik Smajgl, Filip Giering model version: 25 Generic interface and subsystem requirements for SCI version: 1.0 (4.A) review: M&T changes: EUCC-272, EUCC-273, EUCC-274, EUCC-275, EUCC-276 | | Default | | |
| Eu.CC.2089 | Info | version number: 4.2 (2.A) date: 25.06.2025 author: Filip Giering model version: 29 Generic interface and subsystem requirements for SCI version: 1.1 (2.A) review: CCB changes: EUCC-280, EUCC-282, EUCC-284, EUCC-285, EUCC-287, EUCC-295 | | Default | | object created after baseline 4.2 (1.A) |
| Eu.CC.890 | Head | 1.2 Impressum | | Default | | |
| Eu.CC.906 | Info | Publisher: EULYNX Initiative A full list of the EULYNX Partners can be found on https://eulynx.eu/ . | | Default | EUCC-284 | Object Text: Publisher: EULYNX Initiative A full list of the EULYNX Partners can be found on www-https://eulynx.eu/index.php/members . a_JIRA_BL4R4: EUCC-284 |
| Eu.CC.907 | Info | Responsible for this document: EULYNX Project Management Office www.eulynx.eu | | Default | | |
| Eu.CC.908 | Info | Copyright EULYNX Partners All information included or disclosed in this document is licensed under the European Union Public Licence EUPL, Version 1.2 or later. | | Default | | |
| Eu.CC.891 | Head | 1.3 Purpose | | Default | | |
| Eu.CC.909 | Info | The purpose of this document is the specification of functional requirements for the interface SCI-CC for the development of the EULYNX System. | | Default | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|---|--------------------|---------|----------|--|
| Eu.CC.910 | Info | This document is intended for the following users: <ul style="list-style-type: none">• safety authorities• infrastructure managers• safety assessors• signalling system suppliers• validators | | Default | | |
| Eu.CC.911 | Info | This document is the basis for the implementation by the supplier and for approval by the infrastructure manager. | | Default | | |
| Eu.CC.892 | Head | 1.4 Applicable standards and regulations | | Default | | |
| Eu.CC.912 | Info | The applicable standards and regulations used in EULYNX are listed in the EULYNX Reference Document List [Eu.Doc.12]. | | Default | | |
| Eu.CC.893 | Head | 1.5 Applicable documents | | Default | | |
| Eu.CC.913 | Info | The current versions of documents used as input or related to this document are listed in the EULYNX Documentation Plan [Eu.Doc.11]. The relationships between the documents are displayed in the Appendix A1 Documentation plan and structure [Eu.Doc.11_A1]. | | Default | | |
| Eu.CC.895 | Head | 1.6 Terms and abbreviations | | Default | | |
| Eu.CC.915 | Info | The terms and abbreviations are listed in the EULYNX Glossary [Eu.Doc.9]. | | Default | | |
| Eu.CC.897 | Head | 1.7 Variability Management | | Default | | |
| Eu.CC.919 | Info | The applicability column (Appl.) indicates the applicability of the requirement or information object per EULYNX partner. The value "Default" means the object applies to all EULYNX partners. The value "IM code" means the object applies specifically to the stated EULYNX partner. IM codes follow the pattern "abcdyz", where abcd is the UIC numeric code for railway companies and yz is by default "00". | | Default | | |
| Eu.CC.898 | Head | 1.8 Definition of object types | | Default | | |
| Eu.CC.920 | Info | The following definition for object types is applied in this document: | | Default | | |
| Eu.CC.921 | Info | <ul style="list-style-type: none">• "Req" - This denotes a mandatory requirement. | | Default | | |
| Eu.CC.2088 | Info | <ul style="list-style-type: none">• "Def" - This denotes referenceable model elements that are used in the model-based creation of requirements | | Default | | |
| Eu.CC.922 | Info | <ul style="list-style-type: none">• "Info" - This denotes additional information to help understand the specification. These objects do not specify any additional requirements. | | Default | | |
| Eu.CC.923 | Info | <ul style="list-style-type: none">• "Head" - This denotes chapter headings. | | Default | | |
| Eu.CC.896 | Head | 1.9 Modelling | | Default | | |
| Eu.CC.916 | Info | The section "Functional requirements specification" follows a model based systems engineering process using Systems Modelling Language (SysML) and defines the information objects (stimuli and responses) exchanged over the SCI-CC interface. | | Default | | |
| Eu.CC.918 | Info | The diagrams presented in this document are modelled in SysML [SysML]. | | Default | | |
| Eu.CC.1417 | Info | The rules for the interpretation of the model based parts of specification are defined in [Eu.Doc.29]. | | Default | | |
| Eu.CC.1418 | Info | In chapter 3 "Functional requirements specification" the functional system requirements, defined in the form of a SysML model in the PTC Integrity Modeler are depicted as a surrogate of this model in the form of DOORS-objects. | | Default | | |
| Eu.CC.1419 | Info | A requirement thereby consists of the respective SysML model element, for instance a SysML diagram, and if necessary an additional extension of the requirement. | | Default | | |
| Eu.CC.1420 | Info | In the column "Requirement Part 1" the particular SysML model element is depicted and in the column "Requirement Part 2" the corresponding extension of the definition is given. The stated object type normally applies both to "Requirement Part 1" and to "Requirement Part 2". | | Default | | |
| Eu.CC.1421 | Info | There are requirements with type "Req" given, where the column "Requirement Part 2" or a part of it is provided with the heading "Information". In this case, the defined type only applies to the column "Requirement Part 1" and the part of "Requirement Part 2", which is not labelled as "Information". | | Default | | |
| Eu.CC.2087 | Info | State machines or several state machines linked together in a Functional Architecture define the totality of all functional requirements of an SUS or an SIUS in a coherent and consistent manner. State diagrams of a corresponding state machine are marked with the object type "Req". For the later design and implementation, it is not the description language SysML that is binding, but the domain-specific meaning expressed by it. The specified behaviour can be converted into a vendor specific language but must retain the domain specific meaning describing the functional requirements. The specific model elements are additionally specified and defined by object type "Def" to allow for traceability to supplier designs or test cases. The compliance of products to the specifications must be demonstrated by testing against EULYNX test cases, which are derived from the functionality specified by the models. | | Default | EUCC-287 | Object Text: State machines or several state machines linked together in a Functional Architecture define the totality of all functional requirements of an SUS or an SIUS in a coherent and consistent manner. State diagrams of a corresponding state machine are marked with the object type "Req". For the later design and implementation, it is not the description language SysML that is binding, but the domain-specific meaning expressed by it. The specified behaviorbehaviour |

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|------------|------|---|--------------------|---------|----------------------------------|---|
| | | | | | | can be converted into a vendor specific language but must retain the domain specific meaning describing the functional requirements. The specific model elements are additionally specified and defined by object type "Def" to allow for traceability to supplier designs or test cases. The compliance of products to the specifications must be demonstrated by testing against EULYNX test cases, which are derived from the functionality specified by the models. a_JIRA_BL4R4: EUCC-287 |
| Eu.CC.3 | Head | 2 Conditions of use | | Default | | |
| Eu.CC.4 | Info | The specifications defined in this document shall follow the requirements of the EULYNX System Architecture Specification [Eu.Doc.16]. | | Default | | |
| Eu.CC.1537 | Req | The specifications defined in this document shall be complemented by the generic requirements specified in Generic interface and subsystem requirements for SCI [Eu.Doc.119]. | | Default | | |
| Eu.CC.1629 | Req | All references to [Eu.Doc.119] refer to version 1.1 of that document. | | Default | EUCC-280 EUCC-285 EUCC-295 | Object Text: All references to [Eu.Doc.119] refer to version 1. 0 (4.A) 1 of that document. a_JIRA_BL4R4: EUCC-280 EUCC-285 EUCC-295 |
| Eu.CC.1568 | Info | SCI-CC is applied to connect the Traffic Control System to the Subsystem - Electronic interlocking. SCI-CC can also be applied for connecting the Traffic Control System directly to the following adjacent systems: <ul style="list-style-type: none">• the Radio Block Centre• the Centralised ETCS L1 Controller SCI-CC can also be applied for connecting the Trackworker Safety System directly to the following adjacent systems: <ul style="list-style-type: none">• the Radio Block Centre In such case the functional apportionment must be completed from the perspective of the adjacent system, similar to the functional apportionment between the EULYNX System and the Traffic Control System. | | Default | | |
| Eu.CC.1631 | Info | SCI-CC is applied to connect the Traffic Control System or the Trackworker Safety System to the Subsystem - Electronic interlocking. The functional scope of SCI-CC depends on the type of adjacent system (Traffic Control System or the Trackworker Safety System) connected to the EULYNX System via SCI-CC. The functional scope and related use cases and information flows are defined by national specifications and are reflected in the marking of IM applicability. Note: Wherever this specification mentions the actor 'Traffic Control System', this may be interpreted as referring to the actor 'Trackworker Safety System'. | | Default | | |
| Eu.CC.768 | Head | 3 Functional requirements specification | | Default | | |
| Eu.CC.770 | Head | 3.1 SCI-CC - Logical Viewpoint | | Default | | |
| Eu.CC.2075 | Head | 3.1.1 SCI-CC - Logical Context | | Default | | |
| Eu.CC.786 | Def | [Package] SCI-CC - Logical Context [Logical Viewpoint - Interface Definition - Logical Context] <div>bdd [Package] SCI-CC - Logical Context [Logical Viewpoint - Interface Definition - Logical Context] </div> | | Default | EUCC-282 | art_Description: The SCI-CC shall provide the technical interfaces shown in the [Package] SCI-CC Logical Context [Logical Viewpoint - Interface Definition - Logical Context]. Each interface shall allow the connection to the |

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| | | | | | | corresponding-actors shown in the quantities defined in the multiplicities: a_JIRA_BL4R4: EUCC-282 |
| Eu.CC.2091 | Req | The logical interface SCI-CC shall provide a connection of exactly one Subsystem - Electronic Interlocking and one Traffic Control System. | | Default | EUCC-282 | object created after baseline 4.2 (1.A) |
| Eu.CC.1652 | Head | 3.2 SCI-CC - Information Flows | | Default | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|---|--------------------|---------|------|---------------------------|
| Eu.CC.1653 | Def | <div><div>[Package] SCI-CC - Information Flows [Interface Requirements - Directions Of Exchanged Information Objects]</div><div><div><div><div>«information flow» SCI_CC_Area</div><div>reqd «signal» Cd_Manage_A_By-pass_Area reqd «signal» Cd_Manage_A_Local_Shunting_Area reqd «signal» Cd_Manage_A_Working_Area reqd «signal» Cd_Manage_An_Emergency_Stop_Area reqd «signal» Cd_Manage_An_Overhead_Line_(OHL)_Groupset reqd «signal» Cd_Manage_Automatic_Route_Setting_For_An_Area prov «signal» Msg_Automatic_Route_Setting_Area_Status prov «signal» Msg_By-pass_Area_Status prov «signal» Msg_Emergency_Stop_Area_Status prov «signal» Msg_Emergency_Stop_Message_Response prov «signal» Msg_Local_Shunting_Area_Status prov «signal» Msg_Request_Luminosity_Change prov «signal» Msg_Signal_Area_Status prov «signal» Msg_Signal_Luminosity_Group_Status prov «signal» Msg_Working_Area_Status</div></div><div><div>«information flow» SCI_CC_Auxiliary_Generic</div><div>reqd «signal» Cd_Release_For_Normal_Operation reqd «signal» Cd_Reset_The_Release_Safety_Command reqd «signal» Cd_Set_Interlocking_Time_and_Date</div></div><div><div>«information flow» SCI_CC_Command_Handling</div><div>reqd «signal» Cd_Abort_Command reqd «signal» Cd_Confirmation_Of_A_Command_With_Safety_Codes prov «signal» Msg_Command_Accepted prov «signal» Msg_Command_Rejected prov «signal» Msg_Request_Confirmation_Of_Command prov «signal» Msg_Request_Confirmation_Of_Command_With_Safety_Codes</div></div><div><div>«information flow» SCI_CC_ERTMS</div><div>reqd «signal» Cd_Operational_Reversing reqd «signal» Cd_Release_Movement_Authority reqd «signal» Cd_Remove_Emergency_Stop_For_The_Train reqd «signal» Cd_Enter_Event_Text prov «signal» Msg_Train_Data_Report prov «signal» Msg_Train_Position_Speed_And_Status_Report prov «signal» Msg_Train_Request</div></div><div><div>«information flow» SCI_CC_Operational_Train</div><div>reqd «signal» Cd_Manual_Deletion_Of_Train_Data reqd «signal» Cd_Update_Train_Running_Number prov «signal» Msg_Train_Definition_Deleted</div></div></div><div><div><div>«information flow» SCI_CC_Generic_Element</div><div>reqd «signal» Cd_Acknowledge_Alarm_Or_Alert reqd «signal» Cd_Apply_EC_Route_Blocking reqd «signal» Cd_Cancel_Residual_Route reqd «signal» Cd_Display_All_Reminders_And_Blocking_Set_On_A_Route_Element_Or_On_A_Route reqd «signal» Cd_Remove_EC_Route_Blocking reqd «signal» Cd_Manage_field_element_PDI_connection prov «signal» Msg_EC_Blocking_Text prov «signal» Msg_Raise_Alarm_Or_Alert_Or_Event prov «signal» Msg_Released_Status prov «signal» Msg_Field_element_PDI_connection_status</div><div><div>«information flow» SCI_CC_TSR</div><div>reqd «signal» Cd_Define_A_Temporary_Speed_Restriction reqd «signal» Cd_Manage_A_Temporary_Speed_Restriction reqd «signal» Cd_Status_Request_For_All_TSR_Within_A_Defined_Area reqd «signal» Cd_Update_A_Temporary_Speed_Restriction prov «signal» Msg_Request_To_Activate_TSR prov «signal» Msg_TSR_Status_Report</div></div></div><div><div><div>«information flow» SCI_CC_Other_Element</div><div>reqd «signal» Cd_Manage_A_Level_Crossing reqd «signal» Cd_Manage_A_Line_Block_Between_Signalling_Areas reqd «signal» Cd_Manage_A_Point_Heater reqd «signal» Cd_Manage_A_Powered_Moveable_Element reqd «signal» Cd_Manage_A_Static_Lockable_Device reqd «signal» Cd_Manage_A_Track_Section reqd «signal» Cd_Manage_A_TVP_Section reqd «signal» Cd_Manage_An_Auxiliary_Object reqd «signal» Cd_Operate_A_Level_Crossing reqd «signal» Cd_Operate_A_Moveable_Lockable_Device reqd «signal» Cd_Operate_A_Powered_Moveable_Element reqd «signal» Cd_Set_Predefined_Obstruction prov «signal» Cd_Generic_Latches_/_Bit_States prov «signal» Msg_Auxiliary_Object_Status prov «signal» Msg_Diamond_Crossing_Status prov «signal» Msg_Generic_Latches_/_Bit_States prov «signal» Msg_Indicator_Status prov «signal» Msg_Level_Crossing_Status prov «signal» Msg_Line_Block_Status prov «signal» Msg_Moveable_Lockable_Device_Status prov «signal» Msg_Point_Heater_Status prov «signal» Msg_Powered_Moveable_Element_Status prov «signal» Msg_Predefined_Obstruction_Status prov «signal» Msg_Static_Lockable_Device_Status prov «signal» Msg_Track_Section_Status prov «signal» Msg_TVP_Section_Status</div><div><div>«information flow» SCI_CC_Status_Updates</div><div>reqd «signal» Cd_Request_Update_Of_All_Statuses reqd «signal» Cd_Update_The_Disturbance_And_Fault_Reports prov «signal» Msg_Update_Of_All_Statuses_Completed prov «signal» Msg_Update_Of_All_Statuses_Started prov «signal» Msg_Update_The_Disturbance_And_Fault_Reports_Completed prov «signal» Msg_Update_The_Disturbance_And_Fault_Reports_Started</div></div><div><div><div>«information flow» SCI_CC_Remote_Control</div><div>reqd «signal» Cd_Manage_Local_Or_Remote_Control prov «signal» Msg_Local_Or_Remote_Control</div><div><div>«information flow» SCI_CC_Priority_Commands</div><div>reqd «signal» Cd_Barrier_Stop reqd «signal» Cd_Set_A_Signal_/_Signalling_Point_/_Area_To_Stop_Aspect reqd «signal» Cd_Unconditional_Emergency_Stop_For_A_Train</div></div><div><div>«information flow» SCI_CC_Safe_Screen</div><div>«signal» Cd_Abort_Safe_Screen «signal» Cd_Failed_Safe_Screen «signal» Cd_Safe_Screen_Update_Checksum_(Encrypted) «signal» Cd_Safe_Screen_Update_Checksum_(Unencrypted) «signal» Msg_Failed_Safe_Screen «signal» Msg_Safe_Screen_Update_Process_Completed «signal» Msg_Safe_Screen_Update_Process_Initiated</div></div><div><div>«information flow» SCI_CC_Signal</div><div>reqd «signal» Cd_Manage_A_Signal_/_Signalling_Point_/_Area reqd «signal» Cd_Manage_Overrun_Detection prov «signal» Msg_Overrun_Alarm prov «signal» Msg_Signal_Status</div></div><div><div>«information flow» SCI_CC_Route</div><div>reqd «signal» Cd_Authorise_SH_Mode_For_Train reqd «signal» Cd_Cancel_A_Route reqd «signal» Cd_Cancel_Or_Extend_An_Overlap reqd «signal» Cd_Set_A_Route reqd «signal» Cd_Cancel_Route_With_Co-operative_Shortening_Of_Movement_Authority reqd «signal» Cd_Apply_TW_Safe_Sys_Protec prov «signal» Msg_Co-operative_Shortening_Status prov «signal» Msg_Route_Status prov «signal» Msg_Sub-Route_Status</div></div></div></div></div></div></div></div></div> | | Default | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|---|---|--|------|---------------------------|
| Eu.CC.1942 | Info | The generic commands and messages through the SCI-CC are specified in [Eu.Doc.119]. | | Default | | |
| Eu.CC.2024 | Head | 3.2.1 Priority commands | | Default | | |
| Eu.CC.2026 | Def | Cd_Barrier_Stop | Command (Cd) from the Traffic Control System to the Subsystem - Electronic Interlocking instructing level crossing barriers to stop moving. | 007000 | | |
| Eu.CC.2027 | Def | Cd_Set_A_Signal/_Signalling_Point/_Area_To_Stop_Aspect | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to set a signal, signalling point, area or level crossing protecting signals to stop aspect. | Default | | |
| Eu.CC.2028 | Def | Cd_Unconditional_Emergency_Stop_For_A_Train | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to send an unconditional emergency stop message to a train. | 007000 007600 | | |
| Eu.CC.2033 | Head | 3.2.2 Route functions | | Default | | |
| Eu.CC.2035 | Def | Cd_Apply_TW_Safe_Sys_Protec | Command (Cd) from the Traffic Control System to Subsystem - Electronic Interlocking to apply a Trackworker Safety System Protection. | 007001 | | |
| Eu.CC.2037 | Def | Cd_Cancel_A_Route | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to request a route be cancelled. | 007000 007600 007900 310900 | | |
| Eu.CC.2038 | Def | Cd_Cancel_Or_Extend_An_Overlap | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to request that an overlap be cancelled or extended. | 007000 007600 310900 | | |
| Eu.CC.2039 | Def | Cd_Cancel_Route_With_Co-operative_Shortening_Of_Movement_Authority | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to cancel a route with co-operative shortening of the movement authority. | 007000 | | |
| Eu.CC.2040 | Def | Cd_Set_A_Route | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to request a route be set. Parameters include the route ID, route type, flank and overlap information. | 007000 007600 007900 310900 | | |
| Eu.CC.2041 | Def | Msg_Co-operative_Shortening_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of co-operative shortening for a given train and route. Parameters include state of the process (such as ongoing, accepted, rejected, cancelled). | 007000 007600 | | |
| Eu.CC.2042 | Def | Msg_Route_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given route. Parameters include the route type, route state (e.g. locked), overlap state and cancellation/release state. | 007000 007001 007900 008700 310900 | | |
| Eu.CC.2043 | Def | Msg_Sub-Route_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the | 007000 007900 | | |

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| | | | status of a given sub-route or sub-overlap. Parameters include whether locked or not locked. | | | |
| Eu.CC.1982 | Head | 3.2.3 Generic element functions | | Default | | |
| Eu.CC.1984 | Def | Cd_Acknowledge_Alarm_Or_Alert | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to acknowledge a previously raised alarm or alert. | 007000 007600 007900 310900 | | |
| Eu.CC.1985 | Def | Cd_Apply_EC_Route_Blocking | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to apply an EC type of route blocking to a given element. Parameters include the specific type of EC route blocking to apply and a text string related to its application (containing for example an operational reason). | 999900 | | |
| Eu.CC.1986 | Def | Cd_Cancel_Residual_Route | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to request a residual route be cancelled. | 007600 007900 310900 | | |
| Eu.CC.1987 | Def | Cd_Display_All_Reminders_And_Blocking_Set_On_A_Route_Element_Or_On_A_Route | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to request an update of all reminders and blocking set on a given route element or route. | 007000 007900 310900 | | |
| Eu.CC.1988 | Def | Cd_Remove_EC_Route_Blocking | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to remove an EC type of route blocking that has previously been applied to a given element. Parameters include the specific type of EC route blocking to remove from the element. | 999900 | | |
| Eu.CC.2082 | Def | Cd_Manage_field_element_PDI_connection | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a field element PDI connection. | 007000 007001 007900 310900 | | |
| Eu.CC.1989 | Def | Msg_EC_Blocking_Text | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the text related to an EC type of route blocking where that route blocking has been applied to an element. | 999900 | | |
| Eu.CC.1990 | Def | Msg_Raise_Alarm_Or_Alert_Or_Event | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with details of an alarm or alert. Parameters include a fault code. | 007000 007001 007600 007900 310900 | | |
| Eu.CC.1991 | Def | Msg_Released_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System informing about the status of release for normal operation. | 007600 | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|---|--|--------------------------------------|------|---------------------------|
| Eu.CC.2083 | Def | Msg_Field_element_PDI_connection_status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System informing about the status of the field element PDI connection. | 007000 007001 007900 310900 | | |
| Eu.CC.2053 | Info | 3.2.4 Signal functions | | Default | | |
| Eu.CC.2055 | Def | Cd_Manage_A_Signal/_/Signalling_Point/_/Area | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a signal, signalling point or area. Parameters include the ability to apply or remove blocking and to set modes such as automatic operation. | 007000 007600 007900 310900 | | |
| Eu.CC.2056 | Def | Cd_Manage_Overrun_Detection | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage overrun protection for a given signal, signalling point or area. Parameters include the ability to apply or remove inhibits. | 007000 | | |
| Eu.CC.2057 | Def | Msg_Overrun_Alarm | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System informing that an overrun has been detected at a signal. Parameters include the affected signal and TVP identities. | 007000 | | |
| Eu.CC.2058 | Def | Msg_Signal_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given signal. Parameters include the aspect, mode, route type, route state (e.g. locked), overlap and blocking states. | Default | | |
| Eu.CC.1997 | Head | 3.2.5 Other element functions | | Default | | |
| Eu.CC.1999 | Def | Cd_Manage_A_Level_Crossing | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a level crossing and associated equipment such as CCTV and lighting. Parameters include the ability to enable or disable functions and set the mode. | 007000 310900 | | |
| Eu.CC.2000 | Def | Cd_Manage_A_Line_Block_Between_Signalling_Areas | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a line block between signalling areas. Parameters include the ability to apply or remove blocking, to set direction and to enable or disable. | 007600 007900 310900 | | |
| Eu.CC.2001 | Def | Cd_Manage_A_Point_Heater | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a point heater. Parameters include the power level. | 007000 310900 | | |
| Eu.CC.2002 | Def | Cd_Manage_A_Powered_Moveable_Element | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a powered moveable element. Parameters include the ability to apply or remove blocking and to set certain associated states. | 007000 007600 007900 310900 | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|---------------------------------------|--|--------------------------------------|------|---------------------------|
| Eu.CC.2003 | Def | Cd_Manage_A_Static_Lockable_Device | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a lockable device. Parameters include the ability to apply or remove blocking and to release or cancel the release. | 007000 007600 007900 310900 | | |
| Eu.CC.2004 | Def | Cd_Manage_A_Track_Section | Command (Cd) from the Traffic Control System to the Subsystem - Electronic Interlocking to manage a track section. | 007600 310900 | | |
| Eu.CC.2005 | Def | Cd_Manage_A_TVP_Section | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a TVP section. Parameters include the ability to apply or remove blocking/reminders and to Force Clear an occupied section. | 007000 007600 007900 310900 | | |
| Eu.CC.2006 | Def | Cd_Manage_An_Auxiliary_Object | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage an auxiliary object. Parameters include the required mode. | 007600 310900 | | |
| Eu.CC.2007 | Def | Cd_Operate_A_Level_Crossing | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to operate a level crossing. Parameters include the ability to apply or remove blocking and to request activation or deactivation. | 007000 007600 007900 310900 | | |
| Eu.CC.2008 | Def | Cd_Operate_A_Moveable_Lockable_Device | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a moveable lockable device. Parameters include the required position. | 007600 310900 | | |
| Eu.CC.2009 | Def | Cd_Operate_A_Powered_Moveable_Element | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to operate a powered moveable element. Parameters include the direction of movement. | 007000 007600 007900 310900 | | |
| Eu.CC.2010 | Def | Cd_Set_Predefined_Obstruction | Command (Cd) from the Traffic Control System to the Subsystem - Electronic Interlocking to set a predefined Obstruction. | 007000 | | |
| Eu.CC.2084 | Def | Cd_Generic_Latches_-_Bit_States | Command (Cd) from Traffic Control System to the Subsystem - Electronic Interlocking with the states of a generic latch for Solid State Interlocking (SSI). Parameters includes whether the latch is set or unset. | 007000 310900 | | |
| Eu.CC.2011 | Def | Msg_Auxiliary_Object_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given auxiliary object. Parameters include the state of the detected positions and modes of the auxiliary object. | 007600 | | |
| Eu.CC.2012 | Def | Msg_Diamond_Crossing_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic | 007900 310900 | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|-------------------------------------|--|--------------------------------------|------|---------------------------|
| | | | Control System with the status of a given diamond crossing. Parameters include the direction and associated route and flank information. | | | |
| Eu.CC.2013 | Def | Msg_Generic_Latches_/_Bit_States | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a generic latch for Solid State Interlocking (SSI). Parameters includes whether the latch is set or unset. | 007000 310900 | | |
| Eu.CC.2014 | Def | Msg_Indicator_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given indicator. Parameters include the whether the indicator is on, off or other related states. | 007000 007900 | | |
| Eu.CC.2015 | Def | Msg_Level_Crossing_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given level crossing. Parameters include blocking status, mode, barrier position, activation status, protection status and status of associated equipment such as road lights and power supplies. | 007000 007600 007900 310900 | | |
| Eu.CC.2016 | Def | Msg_Line_Block_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a line block. Parameters include locking, direction and blocking states. | 007600 007900 310900 | | |
| Eu.CC.2017 | Def | Msg_Moveable_Lockable_Device_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given moveable lockable device. Parameters include blocking status and whether the device is locked or released and contains requests from the lockable device (such as a request to release). | 007600 310900 | | |
| Eu.CC.2018 | Def | Msg_Point_Heater_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given point heater. Parameters include the power level. | 007000 310900 | | |
| Eu.CC.2019 | Def | Msg_Powered_Moveable_Element_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given powered moveable element. Parameters include the commanded and detected position, blocking status, flank and foul information. | Default | | |
| Eu.CC.2020 | Def | Msg_Predefined_Obstruction_Status | Message (Msg) from Subsystem - Electronic Interlocking to Traffic Control System informing that the status of an Obstruction. | 007000 | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|---|--|--|------|---------------------------|
| Eu.CC.2021 | Def | Msg_Static_Lockable_Device_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the static status of a given lockable device. Parameters include blocking status and whether the device is locked or released and contains requests from the lockable device (such as a request to release). | 007000 007600 007900 310900 | | |
| Eu.CC.2022 | Def | Msg_Track_Section_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given track section (without TVP). Parameters include the blocking status, flank and fragmentation information. | 007000 007600 310900 | | |
| Eu.CC.2023 | Def | Msg_TVP_Section_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given TVP section. Parameters include the occupancy status, blocking status, state of any associated restrictions or reminders, state of any associated Force Clear process and information about routes using the TVP. | 007000 007001 007600 007900 008700 310900 | | |
| Eu.CC.1943 | Head | 3.2.6 Area functions | | Default | | |
| Eu.CC.1945 | Def | Cd_Manage_A_By-pass_Area | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a by-pass area. Parameters include the ability to apply or remove blocking and to activate or deactivate the by-pass area. | 007000 007600 007900 310900 | | |
| Eu.CC.1946 | Def | Cd_Manage_A_Local_Shunting_Area | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a local shunting area. Parameters include the ability to enable or disable the local shunting area. | 007000 007600 007900 310900 | | |
| Eu.CC.1947 | Def | Cd_Manage_A_Working_Area | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a working area. Parameters include the ability to lock or unlock, secure or unsecure the working area and to permit shunt mode within the area. | 007600 008700 | | |
| Eu.CC.1948 | Def | Cd_Manage_An_Emergency_Stop_Area | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage an emergency stop area. Parameters include the ability to activate or deactivate the emergency stop area. | 007000 007600 | | |
| Eu.CC.1949 | Def | Cd_Manage_An_Overhead_Line_(OHL)_Groupset | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage an overhead line group. Parameters include the ability to set or remove an access restriction. | 999900 | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|---|---|--------------------------------------|------|---------------------------|
| Eu.CC.1950 | Def | Cd_Manage_Automatic_Route_Setting_For_An_Area | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage automatic route setting for a given area. Parameters include the ability to apply or remove blocking and for both manual and system requests to enable and disable. | 007000 007900 310900 | | |
| Eu.CC.1951 | Def | Msg_Automatic_Route_Setting_Area_Status | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage automatic route setting for a given area. Parameters include the ability to apply or remove blocking and for both manual and system requests to enable and disable. | 007000 007900 310900 | | |
| Eu.CC.1952 | Def | Msg_By-pass_Area_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given by-pass area. | 007000 007600 007900 310900 | | |
| Eu.CC.1953 | Def | Msg_Emergency_Stop_Area_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given emergency stop area. Parameters include whether the emergency stop area is activated or deactivated. | 007000 007600 | | |
| Eu.CC.1954 | Def | Msg_Emergency_Stop_Message_Response | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the response of a train to an emergency stop area (such as acknowledged or not acknowledged). | 007600 | | |
| Eu.CC.1955 | Def | Msg_Local_Shunting_Area_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a local shunting area. Parameters include blocking states, enabled/disabled and initiated/not-initiated. | 007000 007600 007900 310900 | | |
| Eu.CC.1956 | Def | Msg_Request_Luminosity_Change | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System to request a change in the luminosity level within a given area. Parameters include the intensity level required (e.g. day-to-night or night-to-day). | 007900 | | |
| Eu.CC.1957 | Def | Msg_Signal_Area_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given signal area. Parameters include the auto status. | 007900 310900 | | |
| Eu.CC.1958 | Def | Msg_Signal_Luminosity_Group_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a given signal group. Parameters include the mode and lamp intensity setting. | 007900 310900 | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|--|---|--------------------------------------|------|---------------------------|
| Eu.CC.1959 | Def | Msg_Working_Area_Status | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the status of a working area. Parameters include whether the working area is enabled or activated and whether shunt mode is permitted within it. | 007600 008700 | | |
| Eu.CC.1992 | Head | 3.2.7 Operational train related functions | | Default | | |
| Eu.CC.1994 | Def | Cd_Manual_Deletion_Of_Train_Data | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to delete the data associated with a train. | 007600 | | |
| Eu.CC.1995 | Def | Cd_Update_Train_Running_Number | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to update a train running number. | 007000 | | |
| Eu.CC.1996 | Def | Msg_Train_Definition_Deleted | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with confirmation that the train data held for a given train has been deleted. | 007000 007600 | | |
| Eu.CC.1974 | Head | 3.2.8 ERTMS train related functions | | Default | | |
| Eu.CC.1976 | Def | Cd_Operational_Reversing | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to permit reversing for a given train. | 007000 007600 | | |
| Eu.CC.1977 | Def | Cd_Release_Movement_Authority | Command (Cd) from the Traffic Control System to the Subsystem - Electronic Interlocking to release a Movement Authority. | 007000 | | |
| Eu.CC.1978 | Def | Cd_Remove_Emergency_Stop_For_The_Train | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to remove a previously applied emergency status for a train. | 007000 007600 | | |
| Eu.CC.1962 | Def | Cd_Enter_Event_Text | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to send a text string associated with an event for recording. | 007600 007900 | | |
| Eu.CC.2036 | Def | Cd_Authorise_SH_Mode_For_Train | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to authorise shunt mode for a train. | 007000 007600 | | |
| Eu.CC.1979 | Def | Msg_Train_Data_Report | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the data for a given train. | 007000 007600 | | |
| Eu.CC.1980 | Def | Msg_Train_Position_Speed_And_Status_Report | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the position, speed and status of a given train. | 007000 007001 007600 008700 | | |
| Eu.CC.1981 | Def | Msg_Train_Request | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with a request from a train, such as a request to start a mission or enter shunt mode. | 007000 007600 | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|---|--|--|------|---------------------------|
| Eu.CC.2067 | Head | 3.2.9 TSR Functions | | Default | | |
| Eu.CC.2069 | Def | Cd_Define_A_Temporary_Speed_Restriction | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to define a temporary speed restriction. Includes the ability to define the relevant parameters relating to the TSR (such as start point, end point, speed and applicable train data). | 007000 007600 310900 | | |
| Eu.CC.2070 | Def | Cd_Manage_A_Temporary_Speed_Restriction | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage a temporary speed restriction. Includes the ability to activate, deactivate or delete a pre-defined TSR. | 007000 007600 310900 | | |
| Eu.CC.2071 | Def | Cd_Status_Request_For_All_TSR_Within_A_Defined_Area | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to request a status report of all temporary speeds restrictions within a given area. | 007000 310900 | | |
| Eu.CC.2072 | Def | Cd_Update_A_Temporary_Speed_Restriction | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to update a temporary speed restriction. Includes the ability to define the relevant parameters relating to the TSR (such as start point, end point, speed and applicable train data). | 310900 | | |
| Eu.CC.2073 | Def | Msg_Request_To_Activate_TSR | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with a request to activate a defined temporary speed restriction. | 310900 | | |
| Eu.CC.2074 | Def | Msg_TSR_Status_Report | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the parameters of a defined temporary speed restriction. | 007000 007600 310900 | | |
| Eu.CC.1966 | Head | 3.2.10 Command handling functions | | Default | | |
| Eu.CC.1968 | Def | Cd_Abort_Command | Command (Cd) from the Traffic Control System to the Subsystem - Electronic Interlocking to abort a command. | 007000 007600 007900 310900 | | |
| Eu.CC.1969 | Def | Cd_Confirmation_Of_A_Command_With_Safety_Codes | Command (Cd) from the Traffic Control System to the Subsystem - Electronic Interlocking to confirm a command with safety codes. | 007600 | | |
| Eu.CC.1970 | Def | Msg_Command_Accepted | Message (Msg) from the Subsystem - Electronic Interlocking to the Traffic Control System to confirm the acceptance of a 'safe' command. | 007600 | | |
| Eu.CC.1971 | Def | Msg_Command_Rejected | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System informing that a previously received command has been rejected. Parameters include a reason. | 007000 007600 007900 008700 310900 | | |
| Eu.CC.1972 | Def | Msg_Request_Confirmation_Of_Command | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic | 007000 007900 310900 | | |

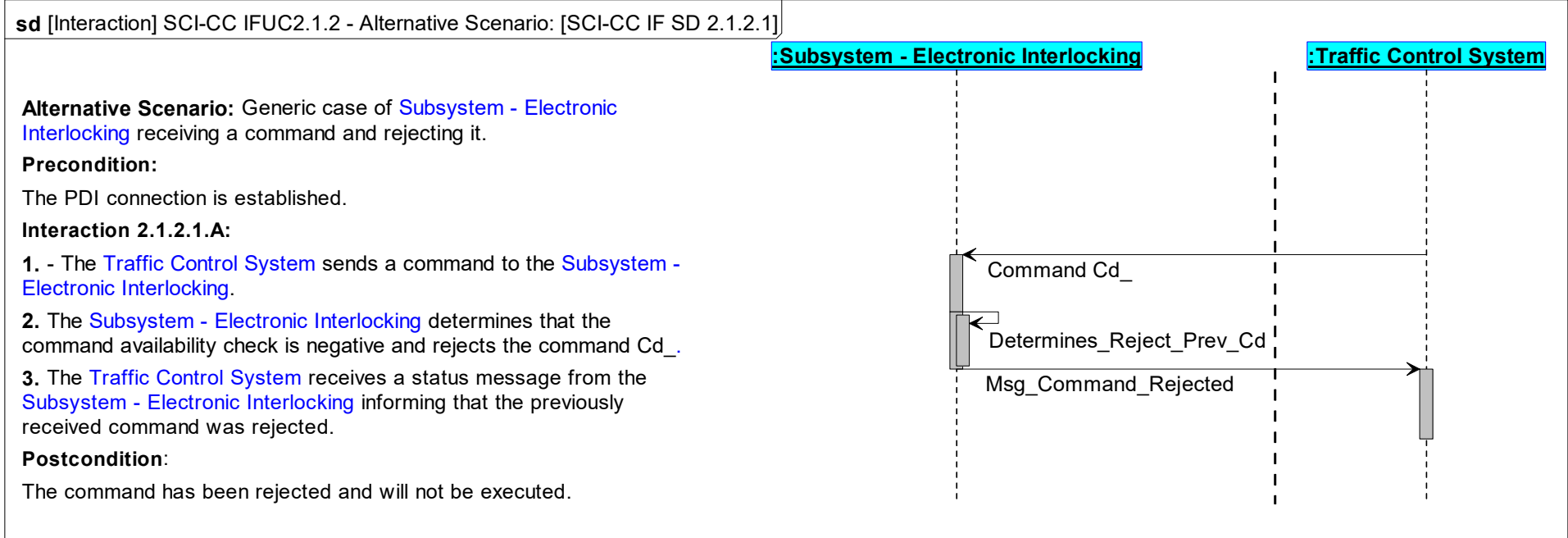
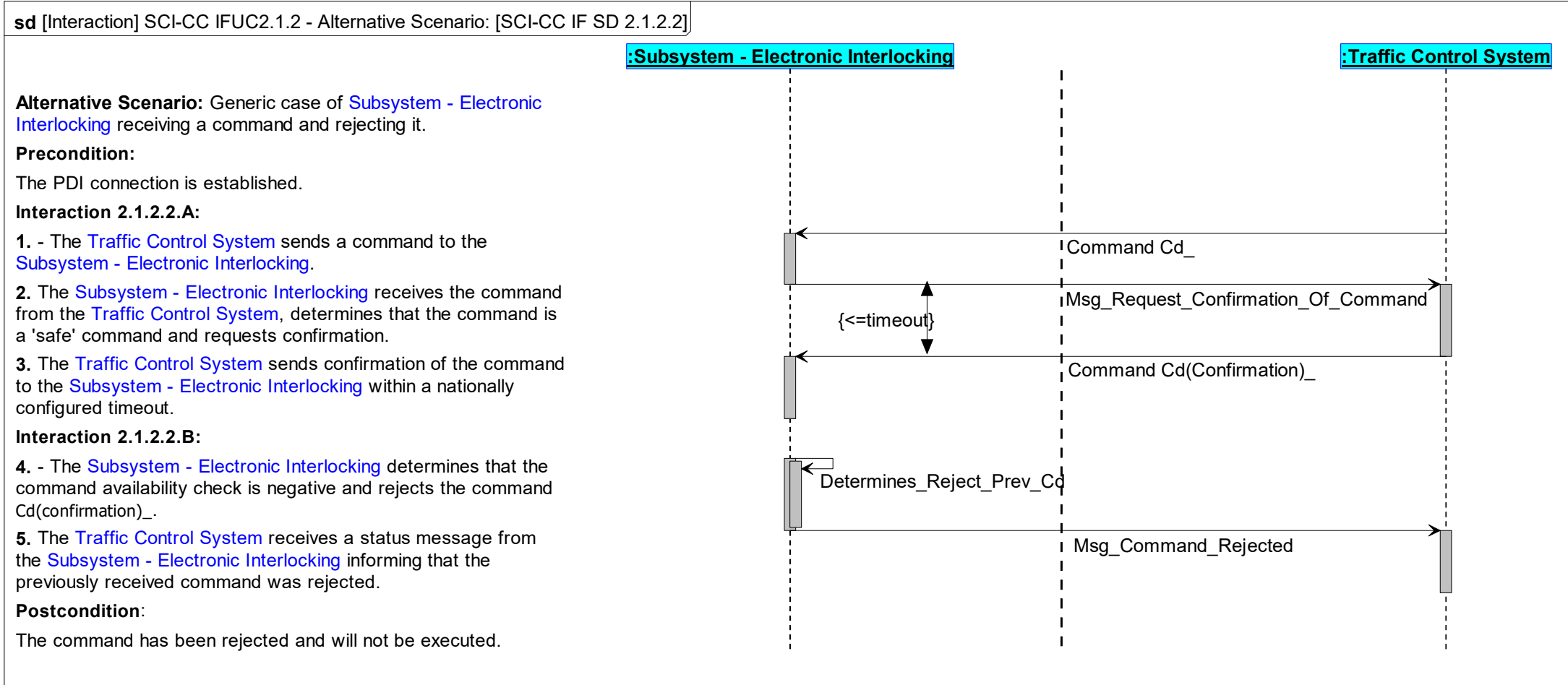
| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|---|---|--------------------------------------|------|---------------------------|
| | | | Control System to request that confirmation is sent for a previously received command. | | | |
| Eu.CC.1973 | Def | Msg_Request_Confirmation_Of_Command_With_Safety_Codes | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System to request that the full content of a previously received command is confirmed. Parameters include the full content of the command previously received from the Traffic Control System. | 007600 | | |
| Eu.CC.2044 | Head | 3.2.11 Safe screen functions | | Default | | |
| Eu.CC.2046 | Def | Cd_Abort_Safe_Screen | Command (Cd) from the Traffic Control System to the Subsystem - Electronic Interlocking aborting the 'safe' screen update process. | 999900 | | |
| Eu.CC.2047 | Def | Cd_Failed_Safe_Screen | Command (Cd) from the Traffic Control System to the Subsystem - Electronic Interlocking informing that the 'safe' screen update process has failed. | 999900 | | |
| Eu.CC.2048 | Def | Cd_Safe_Screen_Update_Checksum (Encrypted) | Command (Cd) from the Traffic Control System to the Subsystem - Electronic Interlocking containing the encrypted checksum for the safe screen update process. | 999900 | | |
| Eu.CC.2049 | Def | Cd_Safe_Screen_Update_Checksum (Unencrypted) | Command (Cd) from the Traffic Control System to the Subsystem - Electronic Interlocking containing the unencrypted checksum for the safe screen update process. | 999900 | | |
| Eu.CC.2050 | Def | Msg_Failed_Safe_Screen | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System informing that the 'safe' screen update process has failed (for example due to an error in checksum comparisons). | 999900 | | |
| Eu.CC.2051 | Def | Msg_Safe_Screen_Update_Process_Completed | Message (Msg) from Subsystem - Electronic Interlocking to Traffic Control System informing that the safe screen update process has completed. | 999900 | | |
| Eu.CC.2052 | Def | Msg_Safe_Screen_Update_Process_Initiated | Message (Msg) from Subsystem - Electronic Interlocking to Traffic Control System informing that the safe screen update process is initiated. | 999900 | | |
| Eu.CC.2059 | Head | 3.2.12 Status updates functions | | Default | | |
| Eu.CC.2061 | Def | Cd_Request_Update_Of_All_Statuses | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to request an update of all statuses. | 007000 007600 007900 310900 | | |
| Eu.CC.2062 | Def | Cd_Update_The_Disturbance_And_Fault_Reports | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to request an update of all disturbance and fault reports. | 310900 | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|---|---|--------------------------------------|------|---------------------------|
| Eu.CC.2063 | Def | Msg_Update_Of_All_Statuses_Completed | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System informing that an update of all Status Messages has completed. | 007000 007600 007900 310900 | | |
| Eu.CC.2064 | Def | Msg_Update_Of_All_Statuses_Started | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System informing that an update of all Status Messages follows. | 007000 007600 007900 310900 | | |
| Eu.CC.2065 | Def | Msg_Update_The_Disturbance_And_Fault_Reports_Completed | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System informing that an update of all disturbance and fault reports has completed. | 310900 | | |
| Eu.CC.2066 | Def | Msg_Update_The_Disturbance_And_Fault_Reports_Started | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System informing that an update of all disturbance and fault reports follows. | 310900 | | |
| Eu.CC.2029 | Head | 3.2.13 Remote control functions | | Default | | |
| Eu.CC.2031 | Def | Cd_Manage_Local_Or_Remote_Control | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to manage local or remote control. Parameters include the ability to request control, take control or give control. | 007900 310900 | | |
| Eu.CC.2032 | Def | Msg_Local_Or_Remote_Control | Status Message (Msg) from Subsystem - Electronic Interlocking to the Traffic Control System with the ability to request, take or offer control. | 007900 310900 | | |
| Eu.CC.1960 | Head | 3.2.14 Auxiliary generic functions | | Default | | |
| Eu.CC.1963 | Def | Cd_Release_For_Normal_Operation | Command (Cd) from the Traffic Control System to the Subsystem - Electronic Interlocking to release for normal operation. | 007600 310900 | | |
| Eu.CC.1964 | Def | Cd_Reset_The_Release_Safety_Command | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to reset a multi-stage process (e.g. after initiation but before providing confirmation). | 999900 | | |
| Eu.CC.1965 | Def | Cd_Set_Interlocking_Time_and_Date | Command (Cd) from Traffic Control System to Subsystem - Electronic Interlocking to set the time and date of the Subsystem - Electronic Interlocking. | 007600 007900 310900 | | |
| Eu.CC.787 | Head | 3.3 SCI-CC - Functional Viewpoint | | Default | | |
| Eu.CC.1562 | Info | The generic requirements are specified in [Eu.Doc.119]. | | Default | | |
| Eu.CC.851 | Head | 3.3.1 SCI-CC - Functional Context | | Default | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|--|--|---------|------|---------------------------|
| Eu.CC.1023 | Info | <div><div>[Package] SCI-CC - Functional Context [Interface Definition - UseCases - Initialisation]</div><div>uc [Package] SCI-CC - Functional Context [Interface Definition - UseCases - Initialisation]</div><div><p>The diagram shows a dashed box labeled 'SCI-CC' containing three use cases: 'SCI-XX AdjS IFUC1.1: Establish PDI connection' (top), 'SCI-CC IFUC1.3: Report status' (middle), and 'SCI-XX AdjS IFUC1.2: Close PDI connection' (bottom). An '«include»' relationship points from the top use case to the middle one. Outside the box, 'Subsystem - Electronic Interlocking' (a cube) is connected to the top and bottom use cases. 'Traffic Control System' (a cube) is connected to the top and bottom use cases.</p></div></div> | | Default | | |
| Eu.CC.1563 | Info | The generic UseCases SCI-XX AdjS IFUC1.1: Establish PDI connection and SCI-XX AdjS IFUC1.2: Close PDI connection are specified in [Eu.Doc.119]. | | Default | | |
| Eu.CC.1051 | Info | SCI-CC IFUC1.3: Report status | Defines the process for the Subsystem - Electronic Interlocking providing the SCI-CC with an update of all status messages. | Default | | |
| Eu.CC.1052 | Req | <div><div>[Interaction] SCI-CC IFUC1.3 - Main Success Scenario: Report status [SCI-CC IF SD 1.3.1]</div><div>sd [Interaction] SCI-CC IFUC1.3 - Main Success Scenario: Report status [SCI-CC IF SD 1.3.1]</div><div><p>The sequence diagram shows two lifelines: ':Subsystem - Electronic Interlocking' and ':Traffic Control System'. A loop box labeled 'loop [For each Status Message]' contains a message arrow from the subsystem to the system labeled 'Status Messages Msg_'. The diagram is preceded by the text: 'Main Success Scenario: Report status', 'loop [For each Status Message]', '1. The Subsystem - Electronic Interlocking sends all relevant Status Messages to the Traffic Control System.', and 'end loop'.</p></div></div> | Defines the process for the Subsystem - Electronic Interlocking or Radio Block Centre providing the SCI-CC with an update of all status messages. This SD is part of [SCI-XX AdjS IF SD 1.1.1] in Eu.Doc.119. | Default | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|--|---|---------|------|---------------------------|
| Eu.CC.854 | Info | <div><div>[Package] SCI-CC - Functional Context [Interface Definition - UseCases - Operation]</div><div><div>uc [Package] SCI-CC - Functional Context [Interface Definition - UseCases - Operation]</div><div><div><div>SCI-CC</div><div><div><div><div>Subsystem - Electronic Interlocking</div><div>SCI-CC IFUC2.1: Receive a Command from the TCS</div><div>SCI-CC IFUC2.1.1: Receive a 'Safe' command from the TCS</div><div>SCI-CC IFUC2.1.2: Reject a command</div><div>SCI-CC IFUC2.1.3: Receive a command with corresponding status change</div><div>SCI-CC IFUC2.2: Send a Status Message to the TCS</div><div>SCI-CC IFUC2.2.1: Send a 'safe' screen update to the TCS</div><div>SCI-CC IFUC2.2.2: Update all statuses</div><div>SCI-CC IFUC1.3: Report status</div><div>Traffic Control System</div></div></div><div><div>«include»</div><div>«include»</div></div></div></div></div></div></div> | | Default | | |
| Eu.CC.855 | Info | SCI-CC IFUC2.1: Receive a Command from the TCS | The Interface-UseCase "SCI-CC IFUC2.1: Receive a Command from the TCS" defines in general how the Subsystem - Electronic Interlocking receives a command from the Traffic Control System (TCS). The behaviour will be defined in the following UseCases: SCI-CC IFUC2.1.1: Receive a 'Safe' command from the TCS SCI-CC IFUC2.1.2: Reject a command SCI-CC IFUC2.1.3: Receive a command with corresponding status change | Default | | |
| Eu.CC.1070 | Info | SCI-CC IFUC2.1.1: Receive a 'Safe' command from the TCS | The Subsystem - Electronic Interlocking receives a 'safe' command from the Traffic Control System (TCS) | Default | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|--|--|----------------------------|------|---------------------------|
| Eu.CC.1071 | Req | <div><div>[Interaction] SCI-CC IFUC2.1.1 - Main Success Scenario: [SCI-CC IF SD 2.1.1.1]</div><div><div>sd [Interaction] SCI-CC IFUC2.1.1 - Main Success Scenario: [SCI-CC IF SD 2.1.1.1]</div><div><div><div>:Subsystem - Electronic Interlocking</div><div>:Traffic Control System</div></div><div><div><div><div></div><div></div><div></div></div><div><div>Command Cd_</div></div><div><div><div></div><div></div><div></div></div><div><div>Msg_Request_Confirmation_Of_Command</div></div><div><div><div></div><div></div><div></div></div><div><div>{<=timeout}</div></div><div><div>Command Cd(Confirmation)_</div></div><div><div><div></div><div></div><div></div></div><div><div>Msg_Command_Accepted</div></div></div></div></div></div></div><div><p>Main Success Scenario: Generic case of receiving a 'safe' command that requires confirmation.</p><p>Precondition:</p><p>The PDI connection is established.</p><p>Interaction 2.1.1.1.A:</p><p>1. - The Traffic Control System sends a command to the Subsystem - Electronic Interlocking.</p><p>2. The Subsystem - Electronic Interlocking receives the command from the Traffic Control System, determines that the command is a 'safe' command and requests confirmation.</p><p>3. The Traffic Control System sends confirmation of the command to the Subsystem - Electronic Interlocking within a nationally configured timeout.</p><p>4. The Subsystem - Electronic Interlocking determines that the command availability check is positive, accepts the command CD(confirmation)_ and sends confirmation to the Traffic Control System.</p><p>Postcondition:</p><p>The Subsystem - Electronic Interlocking has received a command and confirmation of that command from the Traffic Control System and has accepted the command.</p></div></div></div></div> | Defines the generic process for handling 'safe' Commands which require confirmation. | 007000 007900 310900 | | |
| Eu.CC.1088 | Req | <div><div>[Interaction] SCI-CC IFUC2.1.1 - Main Success Scenario: [SCI-CC IF SD 2.1.1.2]</div><div><div>sd [Interaction] SCI-CC IFUC2.1.1 - Main Success Scenario: [SCI-CC IF SD 2.1.1.2]</div><div><div><div>:Subsystem - Electronic Interlocking</div><div>:Traffic Control System</div></div><div><div><div><div></div><div></div><div></div></div><div><div>Cd_Manage_A_TVP_Section</div></div><div><div><div></div><div></div><div></div></div><div><div>Msg_Request_Confirmation_Of_Command</div></div><div><div><div></div><div></div><div></div></div><div><div>{<=timeout}</div></div><div><div>Cd(confirmation)_Manage_A_TVP_Section</div></div><div><div><div></div><div></div><div></div></div><div><div>Msg_Command_Accepted</div></div></div></div></div></div></div><div><p>Main Success Scenario: Application example of Subsystem - Electronic Interlocking receiving a 'safe' command that requires confirmation.</p><p>Precondition:</p><p>The PDI connection is established.</p><p>Interaction 2.1.1.2.A:</p><p>1. - The Traffic Control System sends a command Cd_Manage_A_TVP_Section to the Subsystem - Electronic Interlocking.</p><p>2. The Subsystem - Electronic Interlocking receives the command from the Traffic Control System, determines that the command is a 'safe' command and requests confirmation.</p><p>3. The Traffic Control System sends confirmation of the command Cd_Manage_A_TVP_Section to the Subsystem - Electronic Interlocking within a nationally configured timeout.</p><p>4. The Subsystem - Electronic Interlocking determines that the command availability check is positive, accepts the command CD(confirmation)_ and sends confirmation to the Traffic Control System.</p><p>Postcondition:</p><p>The Subsystem - Electronic Interlocking has received the command and confirmation of the command from the Traffic Control System and has accepted the command.</p></div></div></div></div> | Shows a specific application example of the generic process for handling 'safe' Commands which require confirmation. | 007000 007900 310900 | | |

| ID | Type | Requirement Part 1 | Requirement Part 2 | Appl. | JIRA | V 4.2 (2.A) > V 4.2 (1.A) |
|------------|------|---|--|----------------------------|------|---------------------------|
| Eu.CC.1201 | Req | [Interaction] SCI-CC IFUC2.1.2 - Alternative Scenario: [SCI-CC IF SD 2.1.2.1] sd [Interaction] SCI-CC IFUC2.1.2 - Alternative Scenario: [SCI-CC IF SD 2.1.2.1] : Subsystem - Electronic Interlocking : Traffic Control System Alternative Scenario: Generic case of Subsystem - Electronic Interlocking receiving a command and rejecting it. Precondition: The PDI connection is established. Interaction 2.1.2.1.A: 1. - The Traffic Control System sends a command to the Subsystem - Electronic Interlocking . 2. The Subsystem - Electronic Interlocking determines that the command availability check is negative and rejects the command Cd_. 3. The Traffic Control System receives a status message from the Subsystem - Electronic Interlocking informing that the previously received command was rejected. Postcondition: The command has been rejected and will not be executed.  | Defines the generic process for rejecting a previously received Command. | Default | | |
| Eu.CC.1601 | Req | [Interaction] SCI-CC IFUC2.1.2 - Alternative Scenario: [SCI-CC IF SD 2.1.2.2] sd [Interaction] SCI-CC IFUC2.1.2 - Alternative Scenario: [SCI-CC IF SD 2.1.2.2] : Subsystem - Electronic Interlocking : Traffic Control System Alternative Scenario: Generic case of Subsystem - Electronic Interlocking receiving a command and rejecting it. Precondition: The PDI connection is established. Interaction 2.1.2.2.A: 1. - The Traffic Control System sends a command to the Subsystem - Electronic Interlocking . 2. The Subsystem - Electronic Interlocking receives the command from the Traffic Control System , determines that the command is a 'safe' command and requests confirmation. 3. The Traffic Control System sends confirmation of the command to the Subsystem - Electronic Interlocking within a nationally configured timeout. Interaction 2.1.2.2.B: 4. - The Subsystem - Electronic Interlocking determines that the command availability check is negative and rejects the command Cd(confirmation)_. 5. The Traffic Control System receives a status message from the Subsystem - Electronic Interlocking informing that the previously received command was rejected. Postcondition: The command has been rejected and will not be executed.  | Defines the generic process for rejecting a previously received Command. | 007000 007900 310900 | | |

