



**EULYNX Initiative**

## **Interface specification SCI-RBC**

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ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.4	Head	<b>1 Introduction</b>	Default
Eu.SCI-RBC.PDI.5	Head	<b>1.1 Release information</b>	Default
Eu.SCI-RBC.PDI.6	Info	[Eu.Doc.48] Interface specification SCI-RBC Cenelec Phase: 5 Version: 4.0 (2.A) Approval date: 02.06.2025	Default
Eu.SCI-RBC.PDI.1	Info	<b>Version history</b>	Default
Eu.SCI-RBC.PDI.931	Info	Version number: 4.0 (0.A) Date: 16.05.2022 Author: Filip Giering Review: CCB Changes: EURBC-192, EURBC-198, EURBC-199, EURBC-201	Default
Eu.SCI-RBC.PDI.936	Info	Version number: 4.0 (1.A) Date: 26.06.2023 Author: Filip Giering Review: CCB Changes: EURBC-206, EURBC-209, EURBC-217, EURBC-218	Default
Eu.SCI-RBC.PDI.937		Version number: 4.0 (2.A) Date: 19.06.2025 Author: Filip Giering Review: CCB Changes: EURBC-226, EUAR-228, EURBC-229, EURBC-232	Default
Eu.SCI-RBC.PDI.7	Head	<b>1.2 Impressum</b>	Default
Eu.SCI-RBC.PDI.8	Info	Publisher: <b>EULYNX Initiative</b>  A full list of the EULYNX Partners can be found on <a href="https://eulynx.eu/">https://eulynx.eu/</a> .	Default
Eu.SCI-RBC.PDI.9	Info	Responsible for this document: EULYNX Project Management Office <a href="http://www.eulynx.eu">www.eulynx.eu</a>	Default

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.402	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.SCI-RBC.PDI.10	Head	<b>1.3 Purpose</b>	Default
Eu.SCI-RBC.PDI.11	Info	This document specifies the application layer of the standardised interface for safe communication between the Subsystem - Electronic Interlocking and the Radio Block Centre (RBC).	Default
Eu.SCI-RBC.PDI.12	Info	This application layer is designated as SCI-RBC.PDI.	Default
Eu.SCI-RBC.PDI.13	Info	This document contains the general requirements and the technical specification (e.g. telegrams) of the SCI-RBC.	Default
Eu.SCI-RBC.PDI.914	Info	SCI-RBC is applied to connect the Radio Block Centre or the Centralised ETCS L1 Controller to the Subsystem - Electronic interlocking. The functional scope of SCI-RBC depends on the type of adjacent system (Radio Block Centre or Centralised ETCS L1 Controller) connected to the EULYNX System via SCI-RBC and on the applied ETCS levels. 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 'Radio Block Centre', this may be interpreted as referring to the actor 'Centralised ETCS L1 Controller' if relevant in a L1 operational context.	Default
Eu.SCI-RBC.PDI.14	Info	This specification does not define the detailed behaviour of the interfacing partners (Subsystem - Electronic Interlocking and RBC), nor the situations in which the defined telegrams are sent. This behaviour is the subject of the individual system specifications.	Default
Eu.SCI-RBC.PDI.15	Info	Some items, referring to "interface-related" functionality of the communication partners, have been added to this specification as information, providing an overview only. In any case these are subject to appropriate systems (national) specification.	Default
Eu.SCI-RBC.PDI.16	Info	This document is intended for the following users: <ul style="list-style-type: none"> <li>• safety assessors</li> <li>• infrastructure managers</li> <li>• reference system testers</li> <li>• suppliers</li> <li>• developers</li> <li>• national safety agency</li> </ul>	Default
Eu.SCI-RBC.PDI.18	Head	<b>1.4 Applicable standards and regulations</b>	Default
Eu.SCI-RBC.PDI.19	Info	The applicable standards and regulations used in EULYNX are listed in the EULYNX Reference Document List [Eu.Doc.12].	Default

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.20	Head	<b>1.5 Applicable documents</b>	Default
Eu.SCI-RBC.PDI.21	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.SCI-RBC.PDI.24	Head	<b>1.6 Appendices</b>	Default
Eu.SCI-RBC.PDI.25	Info	<i>- intentionally left blank -</i>	Default
Eu.SCI-RBC.PDI.150	Head	<b>1.7 Terms and abbreviations</b>	Default
Eu.SCI-RBC.PDI.151	Info	The terms and abbreviations are listed in the EULYNX Glossary [Eu.Doc.9].	Default
Eu.SCI-RBC.PDI.152	Head	<b>1.8 Variability management</b>	Default
Eu.SCI-RBC.PDI.153	Info	Applicability column indicates the applicability of the requirement or information object per EULYNX partner. Value "Default" means the object applies to all EULYNX partners. 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.SCI-RBC.PDI.26	Head	<b>1.9 Definition of object types</b>	Default
Eu.SCI-RBC.PDI.27	Info	The following definition for object types is applied in this document:	Default
Eu.SCI-RBC.PDI.28	Info	• "Req" - This denotes a mandatory requirement.	Default
Eu.SCI-RBC.PDI.31	Info	• "Info" - This corresponds to the additional information to supplement the understanding of the specification. These objects do not specify any additional requirements.	Default
Eu.SCI-RBC.PDI.32	Info	• "Head" - This denotes chapter headings.	Default
Eu.SCI-RBC.PDI.33	Head	<b>2 General requirements</b>	Default
Eu.SCI-RBC.PDI.932	Req	All references to [Eu.Doc.47] refer to Requirements specification for SCI-RBC version 4.0.	Default
Eu.SCI-RBC.PDI.792	Req	All references to [Eu.Doc.93] refer to Interface specification SCI Generic version 3.3.	Default
Eu.SCI-RBC.PDI.42	Head	<b>2.1 Version handling</b>	Default
Eu.SCI-RBC.PDI.599	Info	The Version handling is described in [Eu.Doc.93].	Default

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.791	Req	The PDI-version of the SCI-RBC as described in this document is 0x02.	Default
Eu.SCI-RBC.PDI.49	Head	<b>2.2 Communication requirements</b>	Default
Eu.SCI-RBC.PDI.600	Info	The Communication requirements are described in [Eu.Doc.93].	Default
Eu.SCI-RBC.PDI.933	Head	<b>2.3 Functional requirements</b>	Default
Eu.SCI-RBC.PDI.934	Info	The functional requirements are described in [Eu.Doc.47].	Default
Eu.SCI-RBC.PDI.54	Head	<b>3 Telegrams SCI-RBC.PDI</b>	Default
Eu.SCI-RBC.PDI.55	Info	This chapter defines the SCI-RBC.PDI telegrams.	Default
Eu.SCI-RBC.PDI.56	Head	<b>3.1 Telegram structure</b>	Default
Eu.SCI-RBC.PDI.601	Info	The telegram structure is specified in [Eu.Doc.93].	Default
Eu.SCI-RBC.PDI.64	Head	<b>3.2 Sender and Receiver Identifier</b>	Default
Eu.SCI-RBC.PDI.602	Info	The identification of communications partners is specified in [Eu.Doc.93].	Default
Eu.SCI-RBC.PDI.783	Head	<b>3.3 Payload element ID overview</b>	Default
Eu.SCI-RBC.PDI.784	Info	The "Payload element ID" forms a part of the payload of relevant telegrams and represents the generic term for the identity of the physical or logical element to which the telegram relates. The full list of payload element IDs used by telegrams defined in section 3.5 are listed in the table below.	Default
Eu.SCI-RBC.PDI.785	Req	Payload element IDs shall be in ISO IEC 8859-1:1998 format and shall be filled in left-adjusted with trailing whitespace covered with the NULL character (0x00).	Default
Eu.SCI-RBC.PDI.786	Info	<b>Payload element IDs and length used by telegrams</b>	Default

ID	Type	Requirement		Appl.
		<b>Payload element IDs used by telegrams</b>	<b>Length</b>	
		Signal ID	20 chars	
		Point ID	20 chars	
		TVP Section ID	20 chars	
		IO Element ID	20 chars	
		Level Crossing ID	20 chars	
		Route ID	20 chars	
		Emergency Stop Area ID	20 chars	
		Local Shunting Area ID	20 chars	
		Working Area ID	20 chars	
		Eu.SCI-RBC.PDI.70	Head	
Eu.SCI-RBC.PDI.603	Info	The permitted generic message types are specified in [Eu.Doc.93].		Default
Eu.SCI-RBC.PDI.390	Info	The following table shows permitted (element control and element status) message types for the SCI-RBC.PDI.		Default



ID	Type	Requirement					Appl.
		<b>Message Type</b>	<b>Value</b>	<b>Sender</b>	<b>Receiver</b>	<b>Purpose</b>	
		<i>message</i> Signal Status	0x0041	EIL	RBC	Message from Subsystem – Electronic Interlocking containing the new status of a signal and the associated speed restrictions.	
		<i>message</i> Point Status	0x0042	EIL	RBC	Message from Subsystem - Electronic Interlocking containing the new status of a point.	
		<i>message</i> TVP Section Status	0x0043	EIL	RBC	Message from Subsystem - Electronic Interlocking containing the status of a TVP section.	
		<i>command</i> LX Control	0x0034	RBC	EIL	Command from RBC requesting the activation or deactivation of a level crossing.	
		<i>message</i> LX Status	0x0044	EIL	RBC	Message from Subsystem – Electronic Interlocking containing the new LX status.	
		<i>command</i> IO Element Control	0x0035	RBC	EIL	Command from RBC requesting the activation or deactivation of an IO element.	
		<i>message</i> IO Element Status	0x0045	EIL	RBC	Message from Subsystem – Electronic Interlocking containing the new status of an IO element.	
		<i>message</i> Group Failure	0x004F	EIL	RBC	Message from Subsystem – Electronic Interlocking informing about the failure of a group or subgroup.	
Eu.SCI-RBC.PDI.438	Info	The following table shows permitted (area status and train status) message types for the SCI-RBC.PDI.					Default

ID	Type	Requirement					Appl.
		Message Type	Value	Sender	Receiver	Purpose	
		message ESA Status	0x0061	EIL	RBC	Message from Subsystem - Electronic Interlocking containing the new ESA status.	
		message LSA Status	0x0062	EIL	RBC	Message from Subsystem - Electronic Interlocking containing the new status of an LSA.	
		message WA Status	0x0063	EIL	RBC	Message from Subsystem - Electronic Interlocking containing the new status of a WA.	
		message Train Data	0x0081	RBC	EIL	Message from RBC containing the ETCS train data previously received from the ETCS vehicle.	
		message Flank Protection Status	0x0082	RBC	EIL	Message from RBC containing the information that flank protection is provided or no longer provided by ETCS.	
Eu.SCI-RBC.PDI.388	Info	The following table shows permitted (element based route control) message types for the SCI-RBC.PDI.					Default

ID	Type	Requirement					Appl.
		<b>Message Type</b>	<b>Value</b>	<b>Sender</b>	<b>Receiver</b>	<b>Purpose</b>	
		<i>command</i> Signal Control	0x0001	RBC	EIL	Command from RBC transmitting or revoking a trigger for route setting at the given route entry signal.	
		<i>command</i> Signal Cancelling	0x0003	EIL	RBC	Command from Subsystem - Electronic Interlocking requesting the cancellation of the route related to the given route entry signal.	
		<i>message</i> Signal Cancelling Reply	0x0004	RBC	EIL	Message from RBC containing either route cancellation or the rejection of the route cancellation depending on the information the RBC received from the ETCS vehicle.	
		<i>command</i> Signal Overlap Control	0x0006	RBC	EIL	Command from RBC controlling the overlap of a signal.	
		<i>message</i> Signal Occupation	0x0008	RBC	EIL	Message from RBC containing information about trains assigned to the given route destination signal.	
Eu.SCI-RBC.PDI.653	Info	The following table shows permitted (route based route control) message types for the SCI-RBC.PDI.					Default

ID	Type	Requirement					Appl.
		<b>Message Type</b>	<b>Value</b>	<b>Sender</b>	<b>Receiver</b>	<b>Purpose</b>	
		<i>command</i> Route Control	0x0011	RBC	EIL	Command from RBC requesting the reservation or the release of a route or sub route.	
		<i>message</i> Route Status	0x0012	EIL	RBC	Message from the Subsystem - Electronic Interlocking containing the new route status.	
		<i>command</i> Route Cancelling	0x0013	EIL	RBC	Command from Subsystem - Electronic Interlocking requesting the cancellation of a route.	
		<i>message</i> Route Cancelling Reply	0x0014	RBC	EIL	Message from RBC containing either route cancellation or the rejection of the route cancellation depending on the information the RBC received from the ETCS vehicle.	
		<i>message</i> Route Occupation	0x0018	RBC	EIL	Message from RBC containing information about trains assigned to the given route.	
Eu.SCI-RBC.PDI.796	Info	The following table shows permitted (specific ETCS L1 functionality) message types for the SCI-RBC.PDI.					Default

ID	Type	Requirement					Appl.
		<b>Message Type</b>	<b>Value</b>	<b>Sender</b>	<b>Receiver</b>	<b>Purpose</b>	
		<i>message</i> Balise Group Status	0x0071	RBC	EIL	Message from RBC containing the status of the balise groups of a signal.	
		<i>command</i> Preset Signal Balise Group	0x0072	EIL	RBC	Command from Subsystem - Electronic Interlocking requesting the alignment of the telegrams of the pre-signal balise groups with the given signal aspect.	
		<i>message</i> Preset Signal Balise Group Reply	0x0073	RBC	EIL	Message from RBC reporting whether the telegrams of the pre-signal balise groups were brought into alignment with the signal aspect requested in “ <i>command</i> Preset Signal Balise Group”.	
Eu.SCI-RBC.PDI.72	Head	<b>3.5 Telegram definitions</b>					Default
Eu.SCI-RBC.PDI.73	Info	In this chapter, telegrams for SCI-RBC.PDI are defined. The generic telegrams are defined in [Eu.Doc.93].					Default
Eu.SCI-RBC.PDI.190	Head	<b>3.5.1 Command "Signal Control"</b>					008000
Eu.SCI-RBC.PDI.413	Info	With this telegram, the RBC transmits a trigger for route setting at a route entry signal to the Subsystem - Electronic Interlocking or revokes it. This telegram refines the InformationFlows "Cd_Signal_Control" (ID Eu.RBC.6056) specified in the requirements specification.					008000
Eu.SCI-RBC.PDI.191	Info	Telegram definition for command "Signal Control"					008000

ID	Type	Requirement		Appl.																
		<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0001 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Signal ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Request (1 Byte binary)</td></tr><tr><td>64..67</td><td>Train number NID_OPERATIONAL (4 Bytes)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0001 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)	63	Request (1 Byte binary)	64..67	Train number NID_OPERATIONAL (4 Bytes)		
Byte-Nr.	Content																			
00	Protocol Type: 0x50 (1 Byte binary)																			
01..02	Message Type: 0x0001 (2 Bytes binary)																			
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																			
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																			
43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)																			
63	Request (1 Byte binary)																			
64..67	Train number NID_OPERATIONAL (4 Bytes)																			
Eu.SCI-RBC.PDI.193	Req	Permitted values for command "Signal Control":		008000																
Eu.SCI-RBC.PDI.194	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0001.		008000																
Eu.SCI-RBC.PDI.195	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.		008000																
Eu.SCI-RBC.PDI.196	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.		008000																
Eu.SCI-RBC.PDI.198	Req	<b>Signal ID</b> Bytes 43 to 62 shall contain a unique signal identity according to section 3.3.		008000																
Eu.SCI-RBC.PDI.199	Req	<b>Request</b> The message byte 63 shall contain the request value. Permitted values are:  value            meaning -----        -----		008000																
Eu.SCI-RBC.PDI.505	Req	0x01	Trigger for self-adjusting operation of the signal (SB +)	008000																
Eu.SCI-RBC.PDI.507	Req	0x02	Revocation of trigger for self-adjusting operation of the signal (SB -)	008000																

ID	Type	Requirement	Appl.												
Eu.SCI-RBC.PDI.506	Req	0x03 Trigger for switching the signal to dark (DA +)	008000												
Eu.SCI-RBC.PDI.508	Req	0x04 Revocation of trigger for switching the signal to dark (DA -)	008000												
Eu.SCI-RBC.PDI.201	Req	<b>Train number NID_OPERATIONAL</b> The message bytes 64 - 67 shall contain the train number (32 bits) according to the [Sub26]. For the commands SB- and DA- the parameter for the train number is set to the following default value: Train number = 0xFFFFFFFF The default value has to be set as well if the RBC doesn't provide a train number for the commands SB+ or DA+.	008000												
Eu.SCI-RBC.PDI.605	Head	<b>3.5.2 Command "Signal Cancelling"</b>	007600 310901												
Eu.SCI-RBC.PDI.607	Info	With this telegram, the Subsystem - Electronic Interlocking queries the RBC if an element based route may be cancelled. This telegram refines the InformationFlow "Cd_Signal_Cancelling" specified in the requirements specification (ID Eu.RBC.6055).	007600 310901												
Eu.SCI-RBC.PDI.609	Info	Telegram definition for command "Signal Cancelling" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0003 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Signal ID (20 Bytes ISO IEC 8859-1:1998)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0003 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)	007600 310901
Byte-Nr.	Content														
00	Protocol Type: 0x50 (1 Byte binary)														
01..02	Message Type: 0x0003 (2 Bytes binary)														
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)														
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)														
43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)														
Eu.SCI-RBC.PDI.611	Req	Permitted values for command "Signal Cancelling":	007600 310901												
Eu.SCI-RBC.PDI.613	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0003.	007600 310901												

ID	Type	Requirement	Appl.														
Eu.SCI-RBC.PDI.617	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	007600 310901														
Eu.SCI-RBC.PDI.618	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	007600 310901														
Eu.SCI-RBC.PDI.621	Req	<b>Signal ID</b> Bytes 43 to 62 shall contain a unique signal identity according to section 3.3.	007600 310901														
Eu.SCI-RBC.PDI.606	Head	<b>3.5.3 Message "Signal Cancelling Reply"</b>	007600 310901														
Eu.SCI-RBC.PDI.608	Info	With this telegram, the RBC replies to the Subsystem - Electronic Interlocking if an element based route may be cancelled. This telegram refines the InformationFlow "Msg_Signal_Cancelling_Reply" specified in the requirements specification (ID Eu.RBC.6071).	007600 310901														
Eu.SCI-RBC.PDI.610	Info	Telegram definition for message "Signal Cancelling Reply" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0004 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Signal ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Reply (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0004 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)	63	Reply (1 Byte binary)	007600 310901
Byte-Nr.	Content																
00	Protocol Type: 0x50 (1 Byte binary)																
01..02	Message Type: 0x0004 (2 Bytes binary)																
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																
43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)																
63	Reply (1 Byte binary)																
Eu.SCI-RBC.PDI.612	Req	Permitted values for message "Signal Cancelling Reply":	007600 310901														
Eu.SCI-RBC.PDI.614	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0004.	007600 310901														



ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.615	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	007600 310901
Eu.SCI-RBC.PDI.616	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	007600 310901
Eu.SCI-RBC.PDI.622	Req	<b>Signal ID</b> Bytes 43 to 62 shall contain a unique signal identity according to section 3.3.	007600 310901
Eu.SCI-RBC.PDI.623	Req	<b>Reply</b> The message byte 63 shall contain the result value for the cancellation request. Permitted values are:  <div style="display: flex; justify-content: space-between; width: 100%;"> <span>value</span> <span>meaning</span> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <span>-----</span> <span>-----</span> </div>	007600 310901
Eu.SCI-RBC.PDI.624	Req	0x01              Route cancellation rejected	007600 310901
Eu.SCI-RBC.PDI.625	Req	0x02              Route cancellation acknowledged	007600 310901
Eu.SCI-RBC.PDI.202	Head	<b>3.5.4 Command "Signal Overlap Control"</b>	008000 310901
Eu.SCI-RBC.PDI.414	Info	With this telegram, the RBC requests from the Subsystem - Electronic Interlocking to control the overlap release of a signal. This telegram refines the InformationFlow "Cd_Signal_Overlap_Control" specified in the requirements specification (ID Eu.RBC.6057).	008000 310901
Eu.SCI-RBC.PDI.203	Info	Telegram definition for command "Signal Overlap Control"	008000 310901

ID	Type	Requirement		Appl.														
		<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0006 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Signal ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Request (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0006 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)	63	Request (1 Byte binary)		
Byte-Nr.	Content																	
00	Protocol Type: 0x50 (1 Byte binary)																	
01..02	Message Type: 0x0006 (2 Bytes binary)																	
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																	
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																	
43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)																	
63	Request (1 Byte binary)																	
Eu.SCI-RBC.PDI.204	Req	Permitted values for command "Signal Overlap Control":		008000 310901														
Eu.SCI-RBC.PDI.205	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0006.		008000 310901														
Eu.SCI-RBC.PDI.206	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.		008000 310901														
Eu.SCI-RBC.PDI.207	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.		008000 310901														
Eu.SCI-RBC.PDI.209	Req	<b>Signal ID</b> Bytes 43 to 62 shall contain a unique signal identity according to section 3.3.		008000 310901														
Eu.SCI-RBC.PDI.210	Req	<b>Request</b> The message byte 63 shall contain the request value. Permitted values are:  value            meaning -----        -----		008000 310901														
Eu.SCI-RBC.PDI.510	Req	0x01	Permission for release of overlap (DZ)	008000 310901														

ID	Type	Requirement	Appl.																		
Eu.SCI-RBC.PDI.511	Req	0x02            Overlap reservation (DR +)	008000 310901																		
Eu.SCI-RBC.PDI.512	Req	0x03            Cancellation of overlap reservation (DR -)	008000 310901																		
Eu.SCI-RBC.PDI.663	Head	<b>3.5.5 Message "Signal Occupation"</b>	007600 310901																		
Eu.SCI-RBC.PDI.664	Info	With this telegram, the RBC informs the Subsystem - Electronic Interlocking if MAs have been issued for a destination signal of an element based route and what the status of the respective trains is. This telegram refines the InformationFlow "Msg_Signal_Occupation" specified in the requirements specification (ID Eu.RBC.6072).	007600 310901																		
Eu.SCI-RBC.PDI.665	Info	Telegram definition for message "Signal Occupation" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0008 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Signal ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Standstill Status (1 Byte binary)</td></tr><tr><td>64</td><td>MA Status (1 Byte binary)</td></tr><tr><td>65</td><td>EOM Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0008 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)	63	Standstill Status (1 Byte binary)	64	MA Status (1 Byte binary)	65	EOM Status (1 Byte binary)	007600 310901
Byte-Nr.	Content																				
00	Protocol Type: 0x50 (1 Byte binary)																				
01..02	Message Type: 0x0008 (2 Bytes binary)																				
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																				
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																				
43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)																				
63	Standstill Status (1 Byte binary)																				
64	MA Status (1 Byte binary)																				
65	EOM Status (1 Byte binary)																				
Eu.SCI-RBC.PDI.666	Req	Permitted values for message "Signal Occupation":	007600 310901																		
Eu.SCI-RBC.PDI.667	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0008.	007600 310901																		

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.668	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	007600 310901
Eu.SCI-RBC.PDI.669	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	007600 310901
Eu.SCI-RBC.PDI.671	Req	<b>Signal ID</b> Bytes 43 to 62 shall contain a unique signal identity according to section 3.3.	007600 310901
Eu.SCI-RBC.PDI.672	Req	<b>Standstill Status</b> The message byte 63 shall contain the information if all trains assigned to the signal are at standstill. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	007600 310901
Eu.SCI-RBC.PDI.673	Req	0x01            All trains assigned to the signal are at standstill	007600 310901
Eu.SCI-RBC.PDI.674	Req	0x02            At least one train assigned to the signal is not at standstill	007600 310901
Eu.SCI-RBC.PDI.775	Req	0x03            No train assigned to the signal	007600 310901
Eu.SCI-RBC.PDI.700	Req	<b>MA Status</b> The message byte 64 shall contain the information about Movement Authorities issued for trains assigned to the signal. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	007600 310901
Eu.SCI-RBC.PDI.701	Req	0x01            No MA issued for trains assigned to the signal	007600 310901

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.702	Req	0x02 MA issued for at least one train assigned to the signal	007600 310901
Eu.SCI-RBC.PDI.776	Req	0x03 No train assigned to the signal	007600 310901
Eu.SCI-RBC.PDI.705	Req	<b>EOM Status</b> The message byte 65 shall contain the information about End-of-Mission status of trains assigned to the signal. Permitted values are:  <div style="display: flex; justify-content: space-between;"> <div>value</div> <div>meaning</div> </div> <div style="display: flex; justify-content: space-between;"> <div>-----</div> <div>-----</div> </div>	007600 310901
Eu.SCI-RBC.PDI.708	Req	0x01 All train assigned to the signal have performed EoM	007600 310901
Eu.SCI-RBC.PDI.709	Req	0x02 At least one train assigned to the signal has not performed EoM	007600 310901
Eu.SCI-RBC.PDI.777	Req	0x03 No train assigned to the signal	007600 310901
Eu.SCI-RBC.PDI.393	Head	<b>3.5.6 Command "Route Control"</b>	999900
Eu.SCI-RBC.PDI.427	Info	With this telegram, the RBC requests from the Subsystem - Electronic Interlocking to set or release a route. This telegram refines the InformationFlow "Cd_Route_Control" specified in the requirements specification (ID Eu.RBC.6054).	999900
Eu.SCI-RBC.PDI.394	Info	Telegram definition for command "Route Control":	999900

ID	Type	Requirement		Appl.
		Byte-Nr.	Content	
		00	Protocol Type: 0x50 (1 Byte binary)	
		01..02	Message Type: 0x0011 (2 Bytes binary)	
		03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	
		23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	
		43..62	Route ID (20 Bytes ISO IEC 8859-1:1998)	
		63	Request (1 Byte binary)	
Eu.SCI-RBC.PDI.395	Req	Permitted values for command "Route Control":		999900
Eu.SCI-RBC.PDI.396	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0011.		999900
Eu.SCI-RBC.PDI.397	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.		999900
Eu.SCI-RBC.PDI.398	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.		999900
Eu.SCI-RBC.PDI.400	Req	<b>Route ID</b> Bytes 43 to 62 shall contain a unique route identity according to section 3.3.		999900
Eu.SCI-RBC.PDI.455	Req	<b>Request</b> The message byte 63 shall contain the request type. Permitted values are:  value                    meaning -----                -----		999900
Eu.SCI-RBC.PDI.459	Req	0x01	Request Route	999900
Eu.SCI-RBC.PDI.458	Req	0x02	Release Route	999900

ID	Type	Requirement	Appl.																								
Eu.SCI-RBC.PDI.317	Head	<b>3.5.7 Message "Route Status"</b>	999900																								
Eu.SCI-RBC.PDI.426	Info	With this telegram, the Subsystem - Electronic Interlocking informs the RBC about the status change of a route. This telegram refines the InformationFlow "Msg_Route_Status" specified in the requirements specification (ID Eu.RBC.6070).	999900																								
Eu.SCI-RBC.PDI.318	Info	Telegram definition for message "Route Status": <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0012 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Route ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Route Type (1 Byte binary)</td></tr><tr><td>64</td><td>Route State (1 Byte binary)</td></tr><tr><td>65</td><td>Route State Message (1 Byte binary)</td></tr><tr><td>66..67</td><td>Overlap State (2 Bytes unsigned decimal)</td></tr><tr><td>68</td><td>Overlap State Message (1 Byte binary)</td></tr><tr><td>69..70</td><td>Route Release Timer (2 Bytes unsigned decimal)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0012 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Route ID (20 Bytes ISO IEC 8859-1:1998)	63	Route Type (1 Byte binary)	64	Route State (1 Byte binary)	65	Route State Message (1 Byte binary)	66..67	Overlap State (2 Bytes unsigned decimal)	68	Overlap State Message (1 Byte binary)	69..70	Route Release Timer (2 Bytes unsigned decimal)	999900
Byte-Nr.	Content																										
00	Protocol Type: 0x50 (1 Byte binary)																										
01..02	Message Type: 0x0012 (2 Bytes binary)																										
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																										
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																										
43..62	Route ID (20 Bytes ISO IEC 8859-1:1998)																										
63	Route Type (1 Byte binary)																										
64	Route State (1 Byte binary)																										
65	Route State Message (1 Byte binary)																										
66..67	Overlap State (2 Bytes unsigned decimal)																										
68	Overlap State Message (1 Byte binary)																										
69..70	Route Release Timer (2 Bytes unsigned decimal)																										
Eu.SCI-RBC.PDI.319	Req	Permitted values for message "Route Status":	999900																								
Eu.SCI-RBC.PDI.320	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0012.	999900																								
Eu.SCI-RBC.PDI.321	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	999900																								
Eu.SCI-RBC.PDI.322	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	999900																								

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.324	Req	<b>Route ID</b> Bytes 43 to 62 shall contain a unique route identity according to section 3.3.	999900
Eu.SCI-RBC.PDI.325	Req	<b>Route Type</b> The message byte 63 shall contain the route type. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	999900
Eu.SCI-RBC.PDI.563	Req	0x01          Main route (see Eu.DK.94 for definition)	999900
Eu.SCI-RBC.PDI.564	Req	0x02          Shunting route (see Eu.DK.94 for definition)	999900
Eu.SCI-RBC.PDI.566	Req	0x03          On-Sight route (see Eu.DK.94 for definition)	999900
Eu.SCI-RBC.PDI.567	Req	0x04          Staff-Responsible route (see Eu.DK.94 for definition)	999900
Eu.SCI-RBC.PDI.569	Req	<b>Route State</b> The message byte 64 shall contain the route state. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	999900
Eu.SCI-RBC.PDI.570	Req	0x01          Released (see Eu.DK.29 for definition)	999900
Eu.SCI-RBC.PDI.571	Req	0x02          Initiated (see Eu.DK.29 for definition)	999900
Eu.SCI-RBC.PDI.572	Req	0x03          Prepared (see Eu.DK.29 for definition)	999900
Eu.SCI-RBC.PDI.573	Req	0x04          Locked (see Eu.DK.29 for definition)	999900



ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.568	Req	<b>Route State Message</b> The message byte 65 shall contain the route state message. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	999900
Eu.SCI-RBC.PDI.576	Req	0x01      Monitoring conditions failed	999900
Eu.SCI-RBC.PDI.577	Req	0x02      Preparation rejected	999900
Eu.SCI-RBC.PDI.578	Req	0x03      Preparation cancelled	999900
Eu.SCI-RBC.PDI.579	Req	0x04      Route release failure	999900
Eu.SCI-RBC.PDI.575	Req	0xFE      No message	999900
Eu.SCI-RBC.PDI.580	Req	<b>Overlap State</b> The message bytes 66 - 67 shall contain the length of the actually secured overlap in metres (0 - 4095m) as unsigned decimal. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	999900
Eu.SCI-RBC.PDI.582	Req	0x0000..0x0FFF Overlap in metres	999900
Eu.SCI-RBC.PDI.583	Req	<b>Overlap State Message</b> The message byte 68 shall contain the overlap state message. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	999900
Eu.SCI-RBC.PDI.584	Req	0x01      Overlap cannot be established	999900

ID	Type	Requirement	Appl.												
Eu.SCI-RBC.PDI.585	Req	0x02            Overlap cannot be released	999900												
Eu.SCI-RBC.PDI.586	Req	0xFE            No message	999900												
Eu.SCI-RBC.PDI.587	Req	<b>Route Release Timer</b> The message bytes 65 - 66 shall contain route release timer in seconds. Value range: 0x0000..0xFFFE (0 to 65534 decimal).	999900												
Eu.SCI-RBC.PDI.335	Head	<b>3.5.8 Command "Route Cancelling"</b>	999900												
Eu.SCI-RBC.PDI.429	Info	With this telegram, the Subsystem - Electronic Interlocking queries the RBC if a route may be cancelled. This telegram refines the InformationFlow "Cd_Route_Cancelling" specified in the requirements specification (ID Eu.RBC.6053).	999900												
Eu.SCI-RBC.PDI.336	Info	Telegram definition for message "Route Cancelling": <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0013 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Route ID (20 Bytes ISO IEC 8859-1:1998)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0013 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Route ID (20 Bytes ISO IEC 8859-1:1998)	999900
Byte-Nr.	Content														
00	Protocol Type: 0x50 (1 Byte binary)														
01..02	Message Type: 0x0013 (2 Bytes binary)														
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)														
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)														
43..62	Route ID (20 Bytes ISO IEC 8859-1:1998)														
Eu.SCI-RBC.PDI.337	Req	Permitted values for message "Route Cancelling":	999900												
Eu.SCI-RBC.PDI.338	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0013.	999900												
Eu.SCI-RBC.PDI.339	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	999900												
Eu.SCI-RBC.PDI.340	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	999900												

ID	Type	Requirement	Appl.														
Eu.SCI-RBC.PDI.342	Req	<b>Route ID</b> Bytes 43 to 62 shall contain a unique route identity according to section 3.3.	999900														
Eu.SCI-RBC.PDI.343	Head	<b>3.5.9 Message "Route Cancelling Reply"</b>	999900														
Eu.SCI-RBC.PDI.430	Info	With this telegram, the RBC replies to the Subsystem - Electronic Interlocking if a route may be cancelled. This telegram refines the InformationFlow "Msg_Route_Cancelling_Reply" specified in the requirements specification (ID Eu.RBC.6068).	999900														
Eu.SCI-RBC.PDI.344	Info	Telegram definition for message "Route Cancelling_Reply": <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0014 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Route ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Reply (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0014 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Route ID (20 Bytes ISO IEC 8859-1:1998)	63	Reply (1 Byte binary)	999900
Byte-Nr.	Content																
00	Protocol Type: 0x50 (1 Byte binary)																
01..02	Message Type: 0x0014 (2 Bytes binary)																
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																
43..62	Route ID (20 Bytes ISO IEC 8859-1:1998)																
63	Reply (1 Byte binary)																
Eu.SCI-RBC.PDI.345	Req	Permitted values for message "Route Cancelling Reply":	999900														
Eu.SCI-RBC.PDI.346	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0014.	999900														
Eu.SCI-RBC.PDI.347	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	999900														
Eu.SCI-RBC.PDI.348	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	999900														
Eu.SCI-RBC.PDI.350	Req	<b>Route ID</b> Bytes 43 to 62 shall contain a unique route identity according to section 3.3.	999900														

ID	Type	Requirement	Appl.																		
Eu.SCI-RBC.PDI.351	Req	<b>Reply</b> The message byte 63 shall contain the result value for the cancellation request. Permitted values are:  value                      meaning -----                      -----	999900																		
Eu.SCI-RBC.PDI.456	Req	0x01                      Route cancellation rejected	999900																		
Eu.SCI-RBC.PDI.457	Req	0x02                      Route cancellation acknowledged	999900																		
Eu.SCI-RBC.PDI.686	Head	<b>3.5.10 Message "Route Occupation"</b>	999900																		
Eu.SCI-RBC.PDI.687	Info	With this telegram, the RBC informs the Subsystem - Electronic Interlocking if MAs have been issued for a destination signal of a route ID based route and what the status of the respective trains is. This telegram refines the InformationFlow "Msg_Route_Occupation" specified in the requirements specification (ID Eu.RBC.6069).	999900																		
Eu.SCI-RBC.PDI.688	Info	Telegram definition for message "Route Occupation" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0018 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Route ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Standstill Status (1 Byte binary)</td></tr><tr><td>64</td><td>MA Status (1 Byte binary)</td></tr><tr><td>65</td><td>EOM Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0018 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Route ID (20 Bytes ISO IEC 8859-1:1998)	63	Standstill Status (1 Byte binary)	64	MA Status (1 Byte binary)	65	EOM Status (1 Byte binary)	999900
Byte-Nr.	Content																				
00	Protocol Type: 0x50 (1 Byte binary)																				
01..02	Message Type: 0x0018 (2 Bytes binary)																				
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																				
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																				
43..62	Route ID (20 Bytes ISO IEC 8859-1:1998)																				
63	Standstill Status (1 Byte binary)																				
64	MA Status (1 Byte binary)																				
65	EOM Status (1 Byte binary)																				
Eu.SCI-RBC.PDI.689	Req	Permitted values for message "Route Occupation":	999900																		

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.690	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0018.	999900
Eu.SCI-RBC.PDI.691	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	999900
Eu.SCI-RBC.PDI.692	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	999900
Eu.SCI-RBC.PDI.694	Req	<b>Route ID</b> Bytes 43 to 62 shall contain a unique route identity according to section 3.3.	999900
Eu.SCI-RBC.PDI.710	Req	<b>Standstill Status</b> The message byte 63 shall contain the information if all trains assigned to the route are at standstill. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	999900
Eu.SCI-RBC.PDI.714	Req	0x01            All trains assigned to the route are at standstill	999900
Eu.SCI-RBC.PDI.715	Req	0x02            At least one train assigned to the route is not at standstill	999900
Eu.SCI-RBC.PDI.778	Req	0x03            No train assigned to the route	999900
Eu.SCI-RBC.PDI.711	Req	<b>MA Status</b> The message byte 64 shall contain the information about Movement Authorities issued for trains assigned to the route. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	999900
Eu.SCI-RBC.PDI.712	Req	0x01            No MA issued for trains assigned to the route	999900
Eu.SCI-RBC.PDI.713	Req	0x02            MA issued for at least one train assigned to the route	999900

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.779	Req	0x03 No train assigned to the route	999900
Eu.SCI-RBC.PDI.716	Req	<b>EOM Status</b> The message byte 65 shall contain the information about End-of-Mission status of trains assigned to the route. Permitted values are:  <div style="display: flex; justify-content: space-between;"> <div>value</div> <div>meaning</div> </div> <div style="display: flex; justify-content: space-between;"> <div>-----</div> <div>-----</div> </div>	999900
Eu.SCI-RBC.PDI.717	Req	0x01 All train assigned to the route have performed EoM	999900
Eu.SCI-RBC.PDI.718	Req	0x02 At least one train assigned to the route has not performed EoM	999900
Eu.SCI-RBC.PDI.780	Req	0x03 No train assigned to the route	999900
Eu.SCI-RBC.PDI.176	Head	<b>3.5.11 Message "Signal Status"</b>	Default
Eu.SCI-RBC.PDI.412	Info	With this telegram, the Subsystem - Electronic Interlocking informs the RBC about the status change of a signal. This telegram refines the InformationFlow "Msg_Signal_Status" specified in the requirements specification (ID Eu.RBC.6073).	Default
Eu.SCI-RBC.PDI.177	Info	Telegram definition for message "Signal Status":	Default

ID	Type	Requirement		Appl.
		Byte-Nr.	Content	
		00	Protocol Type: 0x50 (1 Byte binary)	
		01..02	Message Type: 0x0041 (2 Bytes binary)	
		03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	
		23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	
		43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)	
		63..64	Group number (2 Bytes binary)	
		65..66	Subgroup number (2 Bytes binary)	
		67	ESI (1 Byte binary)	
		68..73	Signal aspect code (6 Bytes binary)	
		74	Intentionally dark (1 Byte binary)	
		75	V_Signal (coded in 5 km/h steps)	
		76	V_TBV (coded in 5 km/h steps)	
		77..78	Overlap (2 Bytes binary)	
		79	Route entry (1 Byte binary)	
		80	Route exit (1 Byte binary)	
		81	Reason for stop in advance of signal (1 Byte binary)	
		82	Reason for stop in rear of signal (1 Byte binary)	
		Eu.SCI-RBC.PDI.178	Req	
Eu.SCI-RBC.PDI.179	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0041.		Default
Eu.SCI-RBC.PDI.180	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.		Default
Eu.SCI-RBC.PDI.181	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.		Default

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.251	Req	<b>Signal ID</b> Bytes 43 to 62 shall contain a unique signal identity according to section 3.3.	Default
Eu.SCI-RBC.PDI.182	Req	<b>Group number</b> The message bytes 63 - 64 shall contain the number of an element group. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.899	Req	0x0001..0x7FFF Group number	007600 008000 999900
Eu.SCI-RBC.PDI.900	Req	0xFFFF Group number not applicable	008200 008201 310900 310901
Eu.SCI-RBC.PDI.183	Req	<b>Subgroup number</b> The message bytes 65 - 66 shall contain the number of an element group. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.901	Req	0x0001..0x7FFF Subgroup number	007600 008000 999900
Eu.SCI-RBC.PDI.902	Req	0xFFFF Subgroup number not applicable	008200 008201 310900 310901



ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.542	Req	<b>ESI</b> The message byte 67 shall contain the extended status information. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.543	Req	0x01      Current status data available	Default
Eu.SCI-RBC.PDI.544	Req	0x02      Current status data not available (telegram data not reliable)	Default
Eu.SCI-RBC.PDI.403	Req	<b>Signal aspect code</b> The message bytes 68 - 73 shall contain the signal aspect code as defined in the related document Signal aspect table [Eu.Doc.37].  Note: National specification may define which signal aspects in [Eu.Doc.37] are applicable for a specific ETCS application.	Default
Eu.SCI-RBC.PDI.626	Req	<b>Signal aspect intentionally dark</b> The message byte 74 shall contain the information if the signal is set to intentionally dark. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.627	Req	0x01      The signal was not set to intentionally dark	007600 008000 999900
Eu.SCI-RBC.PDI.628	Req	0x02      The signal was set to intentionally dark	007600 008000 999900
Eu.SCI-RBC.PDI.898	Req	0xFF      Intentionally dark not applicable	008200 008201 310900 310901

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.186	Req	<b>V_Signal</b> The message byte 75 shall contain the speed indication signal in steps of 5 km/h from 0 km/h to 600 km/h as one byte decimal value. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.487	Req	0x00..0x78      Speed in steps of 5 km/h	Default
Eu.SCI-RBC.PDI.490	Req	0xFE              Maximum speed	Default
Eu.SCI-RBC.PDI.187	Req	<b>V_TBV</b> The message byte 76 shall contain the speed specification of the mixed level traffic system. The coding of V_TBV corresponds to the coding V_Signal. At signals for which there is no specification from a mixed level traffic system, the information "Not used / unknown" has to be transmitted. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.495	Req	0x00..0x78      Speed in steps of 5 km/h	008000
Eu.SCI-RBC.PDI.496	Req	0xFE              Not used / unknown	008000
Eu.SCI-RBC.PDI.595	Req	0xFF              V_TBV not applicable	007600 008200 008201 310900 310901 999900

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.738	Req	<b>Overlap</b> The message bytes 77 - 78 shall contain the length of the actually secured overlap in metres (0 - 4095m) as unsigned decimal (bits 0 to 11) or the secured overlap in given ranges (bits 0 to 1 with bit 15 set). An overlap at a destination signal is reported with the information from the destination signal. It is allowed to send an overlap even for a signal not showing stop aspect. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.739	Req	0x0000..0x0FFF Overlap in metres	008000 008200 008201 310900
Eu.SCI-RBC.PDI.740	Req	0x8000 Overlap < 50m	007600 008000 310901
Eu.SCI-RBC.PDI.741	Req	0x8001 $50m \leq \text{Overlap} < 200m$	007600 008000 310901
Eu.SCI-RBC.PDI.742	Req	0x8002 Overlap $\geq 200m$	007600 008000 310901
Eu.SCI-RBC.PDI.743	Req	0xFFFF Overlap not defined	007600 008000 008200 008201 310900 310901
Eu.SCI-RBC.PDI.789	Req	0xFFFF Overlap not applicable	999900

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.744	Req	<b>Route Entry</b> The message byte 79 shall transmit if the signal marks the beginning of a route. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.745	Req	0x01      Signal used to start a train route (excluding shunting route)	007600 008000 310901
Eu.SCI-RBC.PDI.746	Req	0x02      Signal not used to start any route	007600 008000 310901
Eu.SCI-RBC.PDI.926	Req	0x03      Signal used to start a shunting route	007600 008000 310901
Eu.SCI-RBC.PDI.787	Req	0xFF      Route Entry not applicable	008200 008201 310900 999900
Eu.SCI-RBC.PDI.748	Req	<b>Route Exit</b> The message byte 80 shall transmit if the signal marks the destination of a route. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.749	Req	0x01      Signal used to end a route	007600 310901
Eu.SCI-RBC.PDI.750	Req	0x02      Signal not used to end a route	007600 310901

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.752	Req	0xFF      Route Exit not applicable	008000 008200 008201 310900 999900
Eu.SCI-RBC.PDI.753	Req	<b>Reason for stop in advance of signal</b> The message byte 81 shall contain the reason for a stop in advance of the signal (beyond the signal). Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.754	Req	0x01      No stop indication	007600 008000
Eu.SCI-RBC.PDI.755	Req	0x02      Stop by operator	007600 310901
Eu.SCI-RBC.PDI.756	Req	0x03      Monitoring fault (severity low)	007600 310901
Eu.SCI-RBC.PDI.757	Req	0x04      Monitoring fault (severity medium)	007600 310901
Eu.SCI-RBC.PDI.758	Req	0x05      Monitoring fault (severity high)	007600 008000 310901
Eu.SCI-RBC.PDI.759	Req	0xFE      Other / unknown reason	007600 008000 310901

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.788	Req	0xFF Reason for stop in advance of signal not applicable	008200 008201 310900 999900
Eu.SCI-RBC.PDI.760	Req	<b>Reason for stop in rear of signal</b> The message byte 82 shall contain the reason for a stop in rear of the signal (on the approach of the signal). Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.761	Req	0x01 No stop indication	007600 310901
Eu.SCI-RBC.PDI.762	Req	0x02 Stop by operator	310901
Eu.SCI-RBC.PDI.763	Req	0x03 Monitoring fault (severity low)	007600 310901
Eu.SCI-RBC.PDI.764	Req	0x04 Monitoring fault (severity medium)	007600 310901
Eu.SCI-RBC.PDI.765	Req	0x05 Monitoring fault (severity high)	007600 310901
Eu.SCI-RBC.PDI.766	Req	0xFE Other / unknown reason	007600 310901

ID	Type	Requirement	Appl.																						
Eu.SCI-RBC.PDI.767	Req	0xFF Reason for stop in rear of signal not applicable	008000 008200 008201 310900 999900																						
Eu.SCI-RBC.PDI.168	Head	<b>3.5.12 Message "Point Status"</b>	Default																						
Eu.SCI-RBC.PDI.411	Info	With this telegram, the Subsystem - Electronic Interlocking informs the RBC about the status change of a point. This telegram refines the InformationFlow "Msg_Point_Status" specified in the requirements specification (ID Eu.RBC.6066).	Default																						
Eu.SCI-RBC.PDI.169	Info	Telegram definition for message "Point Status" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0042 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Point ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63..64</td><td>Group number (2 Bytes binary)</td></tr><tr><td>65..66</td><td>Subgroup number (2 Bytes binary)</td></tr><tr><td>67</td><td>ESI (1 Byte binary)</td></tr><tr><td>68</td><td>Position (1 Byte binary)</td></tr><tr><td>69</td><td>Requested Position (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0042 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Point ID (20 Bytes ISO IEC 8859-1:1998)	63..64	Group number (2 Bytes binary)	65..66	Subgroup number (2 Bytes binary)	67	ESI (1 Byte binary)	68	Position (1 Byte binary)	69	Requested Position (1 Byte binary)	Default
Byte-Nr.	Content																								
00	Protocol Type: 0x50 (1 Byte binary)																								
01..02	Message Type: 0x0042 (2 Bytes binary)																								
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																								
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																								
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65..66	Subgroup number (2 Bytes binary)																								
67	ESI (1 Byte binary)																								
68	Position (1 Byte binary)																								
69	Requested Position (1 Byte binary)																								
Eu.SCI-RBC.PDI.170	Req	Permitted values for message "Point Status":	Default																						
Eu.SCI-RBC.PDI.171	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0042.	Default																						
Eu.SCI-RBC.PDI.172	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	Default																						

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.173	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	Default
Eu.SCI-RBC.PDI.249	Req	<b>Point ID</b> Bytes 43 to 62 shall contain a unique point identity according to section 3.3.	Default
Eu.SCI-RBC.PDI.174	Req	<b>Group number</b> The message bytes 63 - 64 shall contain the number of an element group. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.903	Req	0x0001..0x7FFF Group number	007600 008000 999900
Eu.SCI-RBC.PDI.904	Req	0xFFFF Group number not applicable	008200 008201 310900 310901
Eu.SCI-RBC.PDI.175	Req	<b>Subgroup number</b> The message bytes 65 - 66 shall contain the number of an element group. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.905	Req	0x0001..0x7FFF Subgroup number	007600 008000 999900
Eu.SCI-RBC.PDI.906	Req	0xFFFF Subgroup number not applicable	008200 008201 310900 310901



ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.522	Req	<b>ESI</b> The message byte 67 shall contain the extended status information. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.523	Req	0x01      Current status data available	Default
Eu.SCI-RBC.PDI.524	Req	0x02      Current status data not available (telegram data not reliable)	Default
Eu.SCI-RBC.PDI.389	Req	<b>Position</b> The message byte 68 shall contain the point position. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.517	Req	0x01      Detected at left end position (proceed to the left as viewed from the front)	Default
Eu.SCI-RBC.PDI.518	Req	0x02      Detected at right end position (proceed to the right as viewed from the front)	Default
Eu.SCI-RBC.PDI.652	Req	0x03      Not detected at either of the end positions	Default
Eu.SCI-RBC.PDI.551	Req	0xFE      Unknown	008000 008200 008201 310900 310901 999900
Eu.SCI-RBC.PDI.647	Req	<b>Requested Position</b> The message byte 69 shall contain the requested point position in a route that is currently initiated. This information allows the RBC to prepare the related MA simultaneously. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.648	Req	0x01      Left position requested in initiated route (proceed to the left as viewed from the front)	007600 310901

ID	Type	Requirement	Appl.																
Eu.SCI-RBC.PDI.649	Req	0x02            Right position requested in initiated route (proceed to the right as viewed from the front)	007600 310901																
Eu.SCI-RBC.PDI.651	Req	0x03            No position requested / no route initiated	007600 310901																
Eu.SCI-RBC.PDI.650	Req	0xFF            Requested Position not applicable	008000 008200 008201 310900 999900																
Eu.SCI-RBC.PDI.308	Head	<b>3.5.13 Message "TVP Section Status"</b>	Default																
Eu.SCI-RBC.PDI.425	Info	With this telegram, the Subsystem - Electronic Interlocking informs the RBC about the status change of a track vacancy proving section. This telegram refines the InformationFlow "Msg_TVP_Section_Status" specified in the requirements specification (ID Eu.RBC.6075).	Default																
Eu.SCI-RBC.PDI.309	Info	Telegram definition for message "TVP Section Status": <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0043 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>TVP Section ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>ESI (1 byte binary)</td></tr><tr><td>64</td><td>Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0043 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	TVP Section ID (20 Bytes ISO IEC 8859-1:1998)	63	ESI (1 byte binary)	64	Status (1 Byte binary)	Default
Byte-Nr.	Content																		
00	Protocol Type: 0x50 (1 Byte binary)																		
01..02	Message Type: 0x0043 (2 Bytes binary)																		
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																		
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																		
43..62	TVP Section ID (20 Bytes ISO IEC 8859-1:1998)																		
63	ESI (1 byte binary)																		
64	Status (1 Byte binary)																		
Eu.SCI-RBC.PDI.310	Req	Permitted values for message "TVP Section Status":	Default																

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.311	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0043.	Default
Eu.SCI-RBC.PDI.312	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	Default
Eu.SCI-RBC.PDI.313	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	Default
Eu.SCI-RBC.PDI.315	Req	<b>TVP Section ID</b> Bytes 43 to 62 shall contain a unique TVP section identity according to section 3.3.	Default
Eu.SCI-RBC.PDI.927	Req	<b>ESI</b> The message byte 63 shall contain the extended status information. Permitted values are:  value meaning -----	Default
Eu.SCI-RBC.PDI.928	Req	0x01            Current status data available	Default
Eu.SCI-RBC.PDI.929	Req	0x02            Current status data not available (telegram data not reliable)	Default
Eu.SCI-RBC.PDI.316	Req	<b>Status</b> The message byte 64 shall contain the status value. Permitted values are:  value            meaning -----	Default
Eu.SCI-RBC.PDI.461	Req	0x01            Section occupied	Default
Eu.SCI-RBC.PDI.462	Req	0x02            Section vacant	Default
Eu.SCI-RBC.PDI.463	Req	0x03            Section failed	Default
Eu.SCI-RBC.PDI.562	Req	0xFE            Unknown	Default
Eu.SCI-RBC.PDI.240	Head	<b>3.5.14 Command "LX Control"</b>	007600 008000 310901 999900

ID	Type	Requirement	Appl.														
Eu.SCI-RBC.PDI.418	Info	With this telegram, the RBC requests from the Subsystem - Electronic Interlocking to control a level crossing. This telegram refines the InformationFlows "Cd_LX_Control" (ID Eu.RBC.6051) specified in the requirements specification.	007600 008000 310901 999900														
Eu.SCI-RBC.PDI.242	Info	Telegram definition for command "LX Control": <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0034 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Level Crossing ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Request (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0034 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Level Crossing ID (20 Bytes ISO IEC 8859-1:1998)	63	Request (1 Byte binary)	007600 008000 310901 999900
Byte-Nr.	Content																
00	Protocol Type: 0x50 (1 Byte binary)																
01..02	Message Type: 0x0034 (2 Bytes binary)																
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																
43..62	Level Crossing ID (20 Bytes ISO IEC 8859-1:1998)																
63	Request (1 Byte binary)																
Eu.SCI-RBC.PDI.243	Req	Permitted values for command "LX Control":	007600 008000 310901 999900														
Eu.SCI-RBC.PDI.244	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0034.	007600 008000 310901 999900														
Eu.SCI-RBC.PDI.245	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	007600 008000 310901 999900														

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.246	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	007600 008000 310901 999900
Eu.SCI-RBC.PDI.255	Req	<b>Level Crossing ID</b> Bytes 43 to 62 shall contain a unique level crossing identity according to section 3.3.	007600 008000 310901 999900
Eu.SCI-RBC.PDI.247	Req	<b>Request</b> The message byte 63 shall contain the request type. Permitted values are:  <div style="display: flex; justify-content: space-between; width: 100%;"> <div>value</div> <div>meaning</div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>-----</div> <div>-----</div> </div>	007600 008000 310901 999900
Eu.SCI-RBC.PDI.480	Req	0x01            Deactivation request	007600 008000 310901 999900
Eu.SCI-RBC.PDI.481	Req	0x02            Activation request	007600 008000 310901 999900
Eu.SCI-RBC.PDI.232	Head	<b>3.5.15 Message "LX Status"</b>	Default
Eu.SCI-RBC.PDI.417	Info	With this telegram, the Subsystem - Electronic Interlocking informs the RBC about the status change of a level crossing. This telegram refines the InformationFlow "Msg_LX_Status" specified in the requirements specification (ID Eu.RBC.6065).	Default
Eu.SCI-RBC.PDI.234	Info	Telegram definition for message "LX Status"	Default

ID	Type	Requirement		Appl.																				
		<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0044 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Level Crossing ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63..64</td><td>Group number (2 Bytes binary)</td></tr><tr><td>65..66</td><td>Subgroup number (2 Bytes binary)</td></tr><tr><td>67</td><td>ESI (1 Byte binary)</td></tr><tr><td>68</td><td>Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0044 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Level Crossing ID (20 Bytes ISO IEC 8859-1:1998)	63..64	Group number (2 Bytes binary)	65..66	Subgroup number (2 Bytes binary)	67	ESI (1 Byte binary)	68	Status (1 Byte binary)		
Byte-Nr.	Content																							
00	Protocol Type: 0x50 (1 Byte binary)																							
01..02	Message Type: 0x0044 (2 Bytes binary)																							
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																							
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																							
43..62	Level Crossing ID (20 Bytes ISO IEC 8859-1:1998)																							
63..64	Group number (2 Bytes binary)																							
65..66	Subgroup number (2 Bytes binary)																							
67	ESI (1 Byte binary)																							
68	Status (1 Byte binary)																							
Eu.SCI-RBC.PDI.235	Req	Permitted values for message "LX Status"		Default																				
Eu.SCI-RBC.PDI.236	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0044.		Default																				
Eu.SCI-RBC.PDI.237	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.		Default																				
Eu.SCI-RBC.PDI.238	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.		Default																				
Eu.SCI-RBC.PDI.253	Req	<b>Level Crossing ID</b> Bytes 43 to 62 shall contain a unique level crossing identity according to section 3.3.		Default																				
Eu.SCI-RBC.PDI.256	Req	<b>Group number</b> The message bytes 63 - 64 shall contain the number of an element group. Permitted values are:  value                    meaning -----                -----		Default																				

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.908	Req	0x0001..0x7FFF Group number	007600 008000 999900
Eu.SCI-RBC.PDI.909	Req	0xFFFF Group number not applicable	008200 008201 310900 310901
Eu.SCI-RBC.PDI.257	Req	<b>Subgroup number</b> The message bytes 65 - 66 shall contain the number of an element group. Permitted values are:  value            meaning -----        -----	Default
Eu.SCI-RBC.PDI.910	Req	0x0001..0x7FFF Subgroup number	007600 008000 999900
Eu.SCI-RBC.PDI.911	Req	0xFFFF Subgroup number not applicable	008200 008201 310900 310901
Eu.SCI-RBC.PDI.525	Req	<b>ESI</b> The message byte 67 shall contain the extended status information. Permitted values are:  value            meaning -----        -----	Default
Eu.SCI-RBC.PDI.526	Req	0x01 Current status data available	Default
Eu.SCI-RBC.PDI.527	Req	0x02 Current status data not available (telegram data not reliable)	Default

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.258	Req	<b>Status</b> The message byte 68 shall contain the status values. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	Default
Eu.SCI-RBC.PDI.528	Req	0x01      LX unprotected	Default
Eu.SCI-RBC.PDI.529	Req	0x02      LX protected	Default
Eu.SCI-RBC.PDI.556	Req	0xFE      Unknown	008000 008200 008201 310900 310901 999900
Eu.SCI-RBC.PDI.271	Head	<b>3.5.16 Command "IO Element Control"</b>	007600 008000 310901 999900
Eu.SCI-RBC.PDI.423	Info	With this telegram, the RBC requests from the Subsystem - Electronic Interlocking to control an IO element. This telegram refines the InformationFlow "Cd_IO_Element_Control" (ID Eu.RBC.6050) specified in the requirements specification.	007600 008000 310901 999900



ID	Type	Requirement	Appl.														
Eu.SCI-RBC.PDI.272	Info	Telegram definition for command "IO Element Control"	007600 008000 310901 999900														
		<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0035 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>IO Element ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Request (1 Byte binary)</td></tr></table>		Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0035 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	IO Element ID (20 Bytes ISO IEC 8859-1:1998)	63	Request (1 Byte binary)
		Byte-Nr.		Content													
		00		Protocol Type: 0x50 (1 Byte binary)													
		01..02		Message Type: 0x0035 (2 Bytes binary)													
		03..22		Sender Identifier (20 Bytes ISO IEC 8859-1:1998)													
		23..42		Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)													
		43..62		IO Element ID (20 Bytes ISO IEC 8859-1:1998)													
63	Request (1 Byte binary)																
Eu.SCI-RBC.PDI.273	Req	Permitted values for command "IO Element Control":	007600 008000 310901 999900														
Eu.SCI-RBC.PDI.274	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0035.	007600 008000 310901 999900														
Eu.SCI-RBC.PDI.275	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	007600 008000 310901 999900														
Eu.SCI-RBC.PDI.276	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	007600 008000 310901 999900														

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.278	Req	<b>IO Element ID</b> Bytes 43 to 62 shall contain a unique IO element identity according to section 3.3.	007600 008000 310901 999900
Eu.SCI-RBC.PDI.279	Req	<b>Request</b> The message byte 63 shall contain the request type. Permitted values are:  <div style="display: flex; justify-content: space-between; width: 100%;"> <span>value</span> <span>meaning</span> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <span>-----</span> <span>-----</span> </div>	007600 008000 310901 999900
Eu.SCI-RBC.PDI.477	Req	0x01                  Deactivation request	007600 008000 310901 999900
Eu.SCI-RBC.PDI.478	Req	0x02                  Activation request	007600 008000 310901 999900
Eu.SCI-RBC.PDI.259	Head	<b>3.5.17 Message "IO Element Status"</b>	Default
Eu.SCI-RBC.PDI.419	Info	With this telegram, the Subsystem - Electronic Interlocking informs the RBC about the status change of an IO element. This telegram refines the InformationFlow "Msg_IO_Element_Status" specified in the requirements specification (ID Eu.RBC.6063).	Default
Eu.SCI-RBC.PDI.260	Info	Telegram definition for message "IO Element Status":	Default

ID	Type	Requirement		Appl.																				
		<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0045 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>IO Element ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63..64</td><td>Group number (2 Bytes binary)</td></tr><tr><td>65..66</td><td>Subgroup number (2 Bytes binary)</td></tr><tr><td>67</td><td>ESI (1 Byte binary)</td></tr><tr><td>68</td><td>Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0045 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	IO Element ID (20 Bytes ISO IEC 8859-1:1998)	63..64	Group number (2 Bytes binary)	65..66	Subgroup number (2 Bytes binary)	67	ESI (1 Byte binary)	68	Status (1 Byte binary)		
Byte-Nr.	Content																							
00	Protocol Type: 0x50 (1 Byte binary)																							
01..02	Message Type: 0x0045 (2 Bytes binary)																							
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																							
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																							
43..62	IO Element ID (20 Bytes ISO IEC 8859-1:1998)																							
63..64	Group number (2 Bytes binary)																							
65..66	Subgroup number (2 Bytes binary)																							
67	ESI (1 Byte binary)																							
68	Status (1 Byte binary)																							
Eu.SCI-RBC.PDI.261	Req	Permitted values for message "IO Element Status":		Default																				
Eu.SCI-RBC.PDI.262	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0045.		Default																				
Eu.SCI-RBC.PDI.263	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.		Default																				
Eu.SCI-RBC.PDI.264	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.		Default																				
Eu.SCI-RBC.PDI.266	Req	<b>IO Element ID</b> Bytes 43 to 62 shall contain a unique IO element identity according to section 3.3.		Default																				
Eu.SCI-RBC.PDI.267	Req	<b>Group number</b> The message bytes 63 - 64 shall contain the number of an element group. Permitted values are:  value            meaning -----        -----		Default																				

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.915	Req	0x0001..0x7FFF Group number	007600 008000 999900
Eu.SCI-RBC.PDI.916	Req	0xFFFF Group number not applicable	008200 008201 310900 310901
Eu.SCI-RBC.PDI.268	Req	<b>Subgroup number</b> The message bytes 65 - 66 shall contain the number of an element group. Permitted values are:  value            meaning -----        -----	Default
Eu.SCI-RBC.PDI.918	Req	0x0001..0x7FFF Subgroup number	007600 008000 999900
Eu.SCI-RBC.PDI.917	Req	0xFFFF Subgroup number not applicable	008200 008201 310900 310901
Eu.SCI-RBC.PDI.530	Req	<b>ESI</b> The message byte 67 shall contain the extended status information. Permitted values are:  value            meaning -----        -----	Default
Eu.SCI-RBC.PDI.531	Req	0x01 Current status data available	Default
Eu.SCI-RBC.PDI.532	Req	0x02 Current status data not available (telegram data not reliable)	Default

ID	Type	Requirement	Appl.														
Eu.SCI-RBC.PDI.269	Req	<b>Status</b> The message byte 68 shall contain the status values. Permitted values are:  value                    meaning -----                -----	Default														
Eu.SCI-RBC.PDI.533	Req	0x01                    IO element deactivated	Default														
Eu.SCI-RBC.PDI.534	Req	0x02                    IO element activated	Default														
Eu.SCI-RBC.PDI.557	Req	0xFE                    Unknown	008000 008200 008201 310900 310901 999900														
Eu.SCI-RBC.PDI.159	Head	<b>3.5.18 Message "Group Failure"</b>	007600 008000 999900														
Eu.SCI-RBC.PDI.433	Info	With this telegram, the Subsystem - Electronic Interlocking informs the RBC that there is no status available for the elements of a group or subgroup, with the exception of the train data reporting points. This telegram refines the InformationFlow "Msg_Group_Failure" specified in the requirements specification (ID Eu.RBC.6062).	007600 008000 999900														
Eu.SCI-RBC.PDI.161	Info	Telegram definition for message "Group Failure" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x004F (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..44</td><td>Group number (2 byte binary)</td></tr><tr><td>45..46</td><td>Subgroup number (2 byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x004F (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	43..44	Group number (2 byte binary)	45..46	Subgroup number (2 byte binary)	007600 008000 999900
Byte-Nr.	Content																
00	Protocol Type: 0x50 (1 Byte binary)																
01..02	Message Type: 0x004F (2 Bytes binary)																
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																
43..44	Group number (2 byte binary)																
45..46	Subgroup number (2 byte binary)																

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.162	Req	Permitted values for message "Group Failure":	007600 008000 999900
Eu.SCI-RBC.PDI.163	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x004F.	007600 008000 999900
Eu.SCI-RBC.PDI.164	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	007600 008000 999900
Eu.SCI-RBC.PDI.165	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	007600 008000 999900
Eu.SCI-RBC.PDI.166	Req	<b>Group number</b> The message bytes 43 - 44 shall contain the number of an element group. Permitted values are:  value            meaning -----        -----	007600 008000 999900
Eu.SCI-RBC.PDI.588	Req	0x0001..0x7FFF Group number	007600 008000 999900
Eu.SCI-RBC.PDI.589	Req	To communicate a failure of all groups, failure messages must be sent for all groups individually.	007600 008000 999900
Eu.SCI-RBC.PDI.167	Req	<b>Subgroup number</b> The message bytes 45 - 46 shall contain the number of an element group. Permitted values are:  value            meaning -----        -----	007600 008000 999900

ID	Type	Requirement	Appl.														
Eu.SCI-RBC.PDI.501	Req	0x0001..0x7FFF Subgroup number	007600 008000 999900														
Eu.SCI-RBC.PDI.500	Req	0x8000 All subgroups / entire group	007600 008000 999900														
Eu.SCI-RBC.PDI.299	Head	<b>3.5.19 Message "ESA Status"</b>	007600														
Eu.SCI-RBC.PDI.422	Info	With this telegram, the Subsystem - Electronic Interlocking informs the RBC about the status change of an emergency stop area status. This telegram refines the InformationFlow "Msg_ESA_Status" specified in the requirements specification (ID Eu.RBC.6060).	007600														
Eu.SCI-RBC.PDI.300	Info	Telegram definition for message "ESA Status": <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0061 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Emergency Stop Area ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0061 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Emergency Stop Area ID (20 Bytes ISO IEC 8859-1:1998)	63	Status (1 Byte binary)	007600
Byte-Nr.	Content																
00	Protocol Type: 0x50 (1 Byte binary)																
01..02	Message Type: 0x0061 (2 Bytes binary)																
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																
43..62	Emergency Stop Area ID (20 Bytes ISO IEC 8859-1:1998)																
63	Status (1 Byte binary)																
Eu.SCI-RBC.PDI.301	Req	Permitted values for message "ESA Status":	007600														
Eu.SCI-RBC.PDI.302	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0061.	007600														
Eu.SCI-RBC.PDI.303	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	007600														

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.304	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	007600
Eu.SCI-RBC.PDI.306	Req	<b>Emergency Stop Area ID</b> Bytes 43 to 62 shall contain a unique emergency stop area identity according to section 3.3.	007600
Eu.SCI-RBC.PDI.307	Req	<b>Status</b> The message byte 63 shall contain the status value. Permitted values are:  <div style="display: flex; justify-content: space-between; width: 100%;"> <div>value</div> <div>meaning</div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>-----</div> <div>-----</div> </div>	007600
Eu.SCI-RBC.PDI.465	Req	0x01            Area deactivated	007600
Eu.SCI-RBC.PDI.466	Req	0x02            Area activated	007600
Eu.SCI-RBC.PDI.561	Req	0xFE            Unknown	007600
Eu.SCI-RBC.PDI.290	Head	<b>3.5.20 Message "LSA Status"</b>	007600 310901
Eu.SCI-RBC.PDI.421	Info	With this telegram, the Subsystem - Electronic Interlocking informs the RBC about the status change of a local shunting area. This telegram refines the InformationFlow "Msg_LSA_Status" specified in the requirements specification (ID Eu.RBC.6064).	007600 310901



ID	Type	Requirement	Appl.														
Eu.SCI-RBC.PDI.291	Info	<div>Telegram definition for message "LSA Status":</div> <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0062 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Local Shunting Area ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0062 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Local Shunting Area ID (20 Bytes ISO IEC 8859-1:1998)	63	Status (1 Byte binary)	007600 310901
Byte-Nr.	Content																
00	Protocol Type: 0x50 (1 Byte binary)																
01..02	Message Type: 0x0062 (2 Bytes binary)																
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																
43..62	Local Shunting Area ID (20 Bytes ISO IEC 8859-1:1998)																
63	Status (1 Byte binary)																
Eu.SCI-RBC.PDI.292	Req	Permitted values for message "LSA Status":	007600 310901														
Eu.SCI-RBC.PDI.293	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0062.	007600 310901														
Eu.SCI-RBC.PDI.294	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	007600 310901														
Eu.SCI-RBC.PDI.295	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	007600 310901														
Eu.SCI-RBC.PDI.297	Req	<b>Local Shunting Area ID</b> Bytes 43 to 62 shall contain a unique local shunting area identity according to section 3.3.	007600 310901														
Eu.SCI-RBC.PDI.298	Req	<b>Status</b> The message byte 63 shall contain the status value. Permitted values are:  <table><tr><td>value</td><td>meaning</td></tr><tr><td>-----</td><td>-----</td></tr></table>	value	meaning	-----	-----	007600 310901										
value	meaning																
-----	-----																

ID	Type	Requirement	Appl.																
Eu.SCI-RBC.PDI.468	Req	0x01            Area deactivated	007600 310901																
Eu.SCI-RBC.PDI.469	Req	0x02            Area activated	007600 310901																
Eu.SCI-RBC.PDI.560	Req	0xFE            Unknown	007600 310901																
Eu.SCI-RBC.PDI.281	Head	<b>3.5.21 Message "WA Status"</b>	007600 310901																
Eu.SCI-RBC.PDI.420	Info	With this telegram, the Subsystem - Electronic Interlocking informs the RBC about the status change of a working area. This telegram refines the InformationFlow "Msg_WA_Status" specified in the requirements specification (ID Eu.RBC.6076).	007600 310901																
Eu.SCI-RBC.PDI.282	Info	Telegram definition for message "WA Status": <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0063 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Working Area ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Status (1 Byte binary)</td></tr><tr><td>64</td><td>Shunting Mode Permission (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0063 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Working Area ID (20 Bytes ISO IEC 8859-1:1998)	63	Status (1 Byte binary)	64	Shunting Mode Permission (1 Byte binary)	007600 310901
Byte-Nr.	Content																		
00	Protocol Type: 0x50 (1 Byte binary)																		
01..02	Message Type: 0x0063 (2 Bytes binary)																		
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																		
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																		
43..62	Working Area ID (20 Bytes ISO IEC 8859-1:1998)																		
63	Status (1 Byte binary)																		
64	Shunting Mode Permission (1 Byte binary)																		
Eu.SCI-RBC.PDI.283	Req	Permitted values for message "WA Status":	007600 310901																

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.284	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0063.	007600 310901
Eu.SCI-RBC.PDI.285	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	007600 310901
Eu.SCI-RBC.PDI.286	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	007600 310901
Eu.SCI-RBC.PDI.288	Req	<b>Working Area ID</b> Bytes 43 to 62 shall contain a unique working area identity according to section 3.3.	007600 310901
Eu.SCI-RBC.PDI.289	Req	<b>Status</b> The message byte 63 shall contain the status value. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	007600 310901
Eu.SCI-RBC.PDI.471	Req	0x01            Area deactivated	007600 310901
Eu.SCI-RBC.PDI.472	Req	0x02            Area activated	007600 310901
Eu.SCI-RBC.PDI.558	Req	0xFE            Unknown	007600 310901
Eu.SCI-RBC.PDI.454	Req	<b>Shunting Mode Permission</b> The message byte 64 shall contain the permission for shunting mode or the withdrawal of the permission. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	007600 310901

ID	Type	Requirement	Appl.																
Eu.SCI-RBC.PDI.474	Req	0x01 Shunting mode allowed	007600 310901																
Eu.SCI-RBC.PDI.475	Req	0x02 Shunting mode not allowed	007600 310901																
Eu.SCI-RBC.PDI.559	Req	0xFE Unknown	007600 310901																
Eu.SCI-RBC.PDI.872	Head	<b>3.5.22 Message "Balise Groups Status"</b>	008200 008201 310900																
Eu.SCI-RBC.PDI.873	Info	<p>With this telegram, the RBC informs the Subsystem - Electronic Interlocking about the status of balise groups. This telegram refines the InformationFlow "Msg_BG_Status" specified in the requirements specification (ID Eu.RBC.6059).</p> <p>Note: On the level of the SCI-RBC interface, all pre-signal or post-signal balise groups associated with a signal are considered as one entity.</p>	008200 008201 310900																
Eu.SCI-RBC.PDI.874	Info	<p>Telegram definition for message "Balise Group Status"</p> <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0071 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Signal ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Pre-Signal Balise Groups Status (1 Byte binary)</td></tr><tr><td>64</td><td>Post-Signal Balise Groups Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0071 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)	63	Pre-Signal Balise Groups Status (1 Byte binary)	64	Post-Signal Balise Groups Status (1 Byte binary)	008200 008201 310900
Byte-Nr.	Content																		
00	Protocol Type: 0x50 (1 Byte binary)																		
01..02	Message Type: 0x0071 (2 Bytes binary)																		
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																		
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																		
43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)																		
63	Pre-Signal Balise Groups Status (1 Byte binary)																		
64	Post-Signal Balise Groups Status (1 Byte binary)																		

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.875	Req	Permitted values for message "Balise Groups Status":	008200 008201 310900
Eu.SCI-RBC.PDI.876	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0071.	008200 008201 310900
Eu.SCI-RBC.PDI.877	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	008200 008201 310900
Eu.SCI-RBC.PDI.878	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	008200 008201 310900
Eu.SCI-RBC.PDI.879	Req	<b>Signal ID</b> Bytes 43 to 62 shall contain a unique signal identity according to section 3.3.	008200 008201 310900
Eu.SCI-RBC.PDI.880	Req	<b>Pre-Signal Balise Groups Status</b> The message byte 63 shall contain the status of the Pre-Signal Balise Groups. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	008200 008201 310900
Eu.SCI-RBC.PDI.881	Req	0x01            In control (aligned with signal)	008201
Eu.SCI-RBC.PDI.882	Req	0x02            Not in control (default balise telegram)	008201
Eu.SCI-RBC.PDI.907	Req	0xFF            Pre-Signal Balise Groups Status not applicable	008200 310900

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.883	Req	<b>Post-Signal Balise Groups Status</b> The message byte 64 shall contain the status of the Post-Signal Balise Groups. Permitted values are:  <div style="display: flex; justify-content: space-between;"> <div>value</div> <div>meaning</div> </div> <div style="display: flex; justify-content: space-between;"> <div>-----</div> <div>-----</div> </div>	008200 008201 310900
Eu.SCI-RBC.PDI.884	Req	0x01                      In control (aligned with signal)	008200 008201 310900
Eu.SCI-RBC.PDI.885	Req	0x02                      Not in control (default balise telegram)	008200 008201 310900
Eu.SCI-RBC.PDI.797	Head	<b>3.5.23 Command "Preset Signal Balise Groups"</b>	008201
Eu.SCI-RBC.PDI.798	Info	<p>With this telegram, the Subsystem - Electronic Interlocking requests the RBC to align the telegrams of the pre-signal balise groups with the given signal aspect.  This telegram refines the InformationFlow "Cd_Preset_Signal_BG" specified in the requirements specification (ID Eu.RBC.6052).</p> <p>Note: On the level of the SCI-RBC interface, all pre-signal or post-signal balise groups associated with a signal are considered as one entity.</p>	008201

ID	Type	Requirement	Appl.																		
Eu.SCI-RBC.PDI.799	Info	Telegram definition for command "Preset Signal Balise Groups":	008201																		
		<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0072 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Signal ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63..68</td><td>Signal aspect code (6 Bytes binary)</td></tr><tr><td>69</td><td>V_Signal (coded in 5 km/h steps)</td></tr><tr><td>70-71</td><td>Overlap (2 Bytes binary)</td></tr></table>		Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0072 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)	63..68	Signal aspect code (6 Bytes binary)	69	V_Signal (coded in 5 km/h steps)	70-71	Overlap (2 Bytes binary)
		Byte-Nr.		Content																	
		00		Protocol Type: 0x50 (1 Byte binary)																	
		01..02		Message Type: 0x0072 (2 Bytes binary)																	
		03..22		Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																	
		23..42		Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																	
		43..62		Signal ID (20 Bytes ISO IEC 8859-1:1998)																	
		63..68		Signal aspect code (6 Bytes binary)																	
		69		V_Signal (coded in 5 km/h steps)																	
70-71	Overlap (2 Bytes binary)																				
Eu.SCI-RBC.PDI.800	Req	Permitted values for command "Preset Signal Balise Groups":	008201																		
Eu.SCI-RBC.PDI.801	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0072.	008201																		
Eu.SCI-RBC.PDI.802	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	008201																		
Eu.SCI-RBC.PDI.803	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	008201																		
Eu.SCI-RBC.PDI.804	Req	<b>Signal ID</b> Bytes 43 to 62 shall contain a unique signal identity according to section 3.3.	008201																		
Eu.SCI-RBC.PDI.810	Req	<b>Signal aspect code</b> The message bytes 63 - 68 shall contain the signal aspect code as defined in the related document Signal aspect table [Eu.Doc.37].  Note: National specification may define which signal aspects in [Eu.Doc.37] are applicable for a specific ETCS application.	008201																		

ID	Type	Requirement	Appl.
Eu.SCI-RBC.PDI.886	Req	<b>V_Signal</b> The message byte 69 shall contain the speed indication signal in steps of 5 km/h from 0 km/h to 600 km/h as one byte decimal value. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	008201
Eu.SCI-RBC.PDI.887	Req	0x00..0x78      Speed in steps of 5 km/h	008201
Eu.SCI-RBC.PDI.888	Req	0xFE              Maximum speed	008201
Eu.SCI-RBC.PDI.889	Req	<b>Overlap</b> The message bytes 70 - 71 shall contain the length of the actually secured overlap in metres (0 - 4095m) as unsigned decimal (bits 0 to 11) or the secured overlap in given ranges (bits 0 to 1 with bit 15 set). An overlap at a destination signal is reported with the information from the destination signal. It is allowed to send an overlap even for a signal not showing stop aspect. Permitted values are:  <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	008201
Eu.SCI-RBC.PDI.890	Req	0x0000..0x0FFF Overlap in metres	008201
Eu.SCI-RBC.PDI.894	Req	0xFFFE            Overlap not defined	008201
Eu.SCI-RBC.PDI.895	Req	0xFFFF            Overlap not applicable	008201
Eu.SCI-RBC.PDI.861	Head	<b>3.5.24 Message "Preset Signal Balise Groups Reply"</b>	008201



ID	Type	Requirement	Appl.														
Eu.SCI-RBC.PDI.862	Info	<p>With this telegram, the RBC replies to the Subsystem - Electronic Interlocking whether the telegrams of the pre-signal balise groups were brought into alignment with the received signal aspect. This telegram refines the InformationFlow "Msg_Preset_Signal_BG_Reply" specified in the requirements specification (ID Eu.RBC.6067).</p> <p>Note: On the level of the SCI-RBC interface, all pre-signal or post-signal balise groups associated with a signal are considered as one entity.</p>	008201														
Eu.SCI-RBC.PDI.863	Info	<p>Telegram definition for message "Preset Signal Balise Groups Reply"</p> <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0073 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Signal ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Reply (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0073 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)	63	Reply (1 Byte binary)	008201
Byte-Nr.	Content																
00	Protocol Type: 0x50 (1 Byte binary)																
01..02	Message Type: 0x0073 (2 Bytes binary)																
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																
43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)																
63	Reply (1 Byte binary)																
Eu.SCI-RBC.PDI.864	Req	Permitted values for message "Preset Signal Balise Groups Reply":	008201														
Eu.SCI-RBC.PDI.865	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0073.	008201														
Eu.SCI-RBC.PDI.866	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	008201														
Eu.SCI-RBC.PDI.867	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	008201														
Eu.SCI-RBC.PDI.868	Req	<b>Signal ID</b> Bytes 43 to 62 shall contain a unique signal identity according to section 3.3.	008201														

ID	Type	Requirement	Appl.																						
Eu.SCI-RBC.PDI.869	Req	<b>Reply</b> The message byte 63 shall contain the result value for the balise groups preset request. Permitted values are:  value                    meaning -----                -----	008201																						
Eu.SCI-RBC.PDI.870	Req	0x01                    All balise groups' telegrams in alignment with received signal aspect	008201																						
Eu.SCI-RBC.PDI.871	Req	0x02                    At least one balise group's telegram not in alignment with received signal aspect	008201																						
Eu.SCI-RBC.PDI.222	Head	<b>3.5.25 Message "Train Data"</b>	008000																						
Eu.SCI-RBC.PDI.416	Info	With this telegram, the RBC sends ETCS train data to the Subsystem - Electronic Interlocking. This telegram refines the InformationFlow "Msg_Train_Data" specified in the requirements specification (ID Eu.RBC.6074).	008000																						
Eu.SCI-RBC.PDI.537	Info	The security of correctness of the values is limited by the input process.	008000																						
Eu.SCI-RBC.PDI.223	Info	Telegram definition for message "Train Data" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0081 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Signal ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>M_VERSION (7 Bit)</td></tr><tr><td>64..65</td><td>NC_TRAIN (15 Bit)</td></tr><tr><td>66..69</td><td>NID_OPERATIONAL (4 Bytes)</td></tr><tr><td>70..71</td><td>L_TRAIN (12 Bit)</td></tr><tr><td>72</td><td>V_MAXTRAIN (7 Bit)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0081 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)	63	M_VERSION (7 Bit)	64..65	NC_TRAIN (15 Bit)	66..69	NID_OPERATIONAL (4 Bytes)	70..71	L_TRAIN (12 Bit)	72	V_MAXTRAIN (7 Bit)	008000
Byte-Nr.	Content																								
00	Protocol Type: 0x50 (1 Byte binary)																								
01..02	Message Type: 0x0081 (2 Bytes binary)																								
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																								
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																								
43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)																								
63	M_VERSION (7 Bit)																								
64..65	NC_TRAIN (15 Bit)																								
66..69	NID_OPERATIONAL (4 Bytes)																								
70..71	L_TRAIN (12 Bit)																								
72	V_MAXTRAIN (7 Bit)																								

<b>ID</b>	<b>Type</b>	<b>Requirement</b>	<b>Appl.</b>
Eu.SCI-RBC.PDI.224	Req	Permitted values for message "Train Data":	008000
Eu.SCI-RBC.PDI.225	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0081.	008000
Eu.SCI-RBC.PDI.226	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	008000
Eu.SCI-RBC.PDI.227	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	008000
Eu.SCI-RBC.PDI.229	Req	<b>Signal ID</b> Bytes 43 to 62 shall contain a unique signal identity according to section 3.3.	008000
Eu.SCI-RBC.PDI.230	Req	<b>M_VERSION</b> The message byte 63 shall contain the ETCS version (7 bits) according to the [Sub26]. Permitted values are:  <div style="display: flex; justify-content: space-between; width: 100%;"> <span>value</span> <span>meaning</span> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <span>-----</span> <span>-----</span> </div>	008000
Eu.SCI-RBC.PDI.590	Req	0x00..0x7F      See [Sub26] for details	008000
Eu.SCI-RBC.PDI.538	Req	The format and content of the train data must be evaluated according to the ETCS version.	008000
Eu.SCI-RBC.PDI.535	Req	<b>NC_TRAIN</b> The message bytes 64 - 65 shall contain the train category (15 bits) according to the [Sub26]. Permitted values are:  <div style="display: flex; justify-content: space-between; width: 100%;"> <span>value</span> <span>meaning</span> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <span>-----</span> <span>-----</span> </div>	008000
Eu.SCI-RBC.PDI.591	Req	0x0000..0x7FFF See [Sub26] for details	008000
Eu.SCI-RBC.PDI.536	Req	<b>NID_OPERATIONAL</b> The message bytes 66 - 69 shall contain the train number (32 bits) according to the [Sub26].	008000

ID	Type	Requirement	Appl.														
Eu.SCI-RBC.PDI.540	Req	<b>L_TRAIN</b> The message bytes 70 - 71 shall contain the length of the train in metres (12 bits) according to the [Sub26]. Permitted values are:  value                    meaning -----                -----	008000														
Eu.SCI-RBC.PDI.592	Req	0x0000..0x0FFF Length of the train in metres	008000														
Eu.SCI-RBC.PDI.539	Req	<b>V_MAXTRAIN</b> The message byte 72 shall contain the maximum speed of the train in steps of 5 km/h (7 bits) according to the [Sub26]. Permitted values are:  value                    meaning -----                ----- 0x00..0x78            Maximum speed of the train in steps of 5 km/h (0-600 km/h)	008000														
Eu.SCI-RBC.PDI.212	Head	<b>3.5.26 Message "Flank Protection Status"</b>	008000 310901														
Eu.SCI-RBC.PDI.415	Info	With this telegram, the RBC informs the Subsystem - Electronic Interlocking if it provides flank protection. This telegram refines the InformationFlows "Msg_Flank_Protection" (ID Eu.RBC.6061) specified in the requirements specification.	008000 310901														
Eu.SCI-RBC.PDI.213	Info	Telegram definition for message "Flank Protection Status" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x50 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0082 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Signal ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x50 (1 Byte binary)	01..02	Message Type: 0x0082 (2 Bytes binary)	03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)	43..62	Signal ID (20 Bytes ISO IEC 8859-1:1998)	63	Status (1 Byte binary)	008000 310901
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<b>ID</b>	<b>Type</b>	<b>Requirement</b>	<b>Appl.</b>
Eu.SCI-RBC.PDI.214	Req	Permitted values for message "Flank Protection Status":	008000 310901
Eu.SCI-RBC.PDI.215	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0082.	008000 310901
Eu.SCI-RBC.PDI.216	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Radio Block Centre according to section 3.2.	008000 310901
Eu.SCI-RBC.PDI.217	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to section 3.2.	008000 310901
Eu.SCI-RBC.PDI.219	Req	<b>Signal ID</b> Bytes 43 to 62 shall contain a unique signal identity according to section 3.3.	008000 310901
Eu.SCI-RBC.PDI.220	Req	<b>Status</b> The message byte 63 shall contain the status value. Permitted values are:  <div style="display: flex; justify-content: space-between; width: 100%;"> <div>value</div> <div>meaning</div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>-----</div> <div>-----</div> </div>	008000 310901
Eu.SCI-RBC.PDI.515	Req	0x01              Flank protection provided (FP +)	008000 310901
Eu.SCI-RBC.PDI.516	Req	0x02              Flank protection no longer provided (FP -)	008000 310901