



EULYNX Initiative

Interface specification SCI-ILS

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ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.4	Head	1 Introduction	Default
Eu.SCI-ILS.PDI.5	Head	1.1 Release information	Default
Eu.SCI-ILS.PDI.6	Info	[Eu.Doc.42] Interface specification SCI-ILS CENELEC Phase: 5 Version: 4.4 (1.A) Approval date: 02.06.2025	Default
Eu.SCI-ILS.PDI.1	Info	Version history	Default
Eu.SCI-ILS.PDI.704	Info	version number: 4.0 (0.A) date: 16.05.2022 author: Dennis Kunz review: CCB changes: EUILS-268, EUILS-270, EUILS-271	Default
Eu.SCI-ILS.PDI.711	Info	version number: 4.1 (0.A) date: 05.04.2023 author: Dennis Kunz review: cluster changes: EUILS-278, EUILS-280, EUILS-281, EUILS-282, EUILS-283	Default
Eu.SCI-ILS.PDI.745	Info	version number: 4.2 (0.A) date: 26.06.2023 author: Dennis Kunz review: CCB changes: EUILS-285, EUILS-287, EUILS-288, EUILS-290, EUILS-292	Default
Eu.SCI-ILS.PDI.746	Info	version number: 4.2 (1.B) date: 30.04.2024 author: Dennis Kunz review: cluster changes: EUILS-275, EUILS-276, EUILS-302, EUILS-303, EUILS-305, EUILS-309, EUILS-310, EUILS-311	Default
Eu.SCI-ILS.PDI.748	Info	version number: 4.3 (0.A) date: 18.06.2024 author: Dennis Kunz review: CCB changes: EUILS-312, EUILS-313	Default
Eu.SCI-ILS.PDI.749	Info	version number: 4.4 (0.A) date: 12.03.2025 author: Dennis Kunz, Philipp Wolber review: cluster changes: EUILS-308, EUILS-315, EUILS-317	Default
Eu.SCI-ILS.PDI.757	Info	version number: 4.4 (1.A) date: 19.06.2025 author: Dennis Kunz, Philipp Wolber review: CCB changes: EUILS-318, EUILS-319, EUILS-320, EUILS-321, EUILS-322	Default
Eu.SCI-ILS.PDI.7	Head	1.2 Impressum	Default
Eu.SCI-ILS.PDI.8	Info	Publisher: EULYNX Initiative A full list of the EULYNX Partners can be found on https://eulynx.eu/ .	Default

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.9	Info	Responsible for this document: EULYNX Project Management Office www.eulynx.eu	Default
Eu.SCI-ILS.PDI.158	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-ILS.PDI.10	Head	1.3 Purpose	Default
Eu.SCI-ILS.PDI.11	Info	This document specifies the application layer of the standardised interface for safe communication between the Subsystem - Electronic Interlocking and Adjacent Interlocking System (SCI-ILS).	Default
Eu.SCI-ILS.PDI.12	Info	This application layer is designated as SCI-ILS.PDI.	Default
Eu.SCI-ILS.PDI.13	Info	This document contains the general requirements for communication and the technical specification (e.g. telegrams) of the SCI-ILS.PDI.	Default
Eu.SCI-ILS.PDI.14	Info	This specification does not define the detailed behaviour of the interfacing partners (Subsystem - Electronic Interlocking and Adjacent Interlocking System), nor the situations in which the defined telegrams are sent. This behaviour is the subject of the individual system specifications.	Default
Eu.SCI-ILS.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-ILS.PDI.16	Info	This document is intended for the following users: <ul style="list-style-type: none"> • safety authorities • infrastructure managers • safety accessors • signalling system suppliers • validators 	Default
Eu.SCI-ILS.PDI.18	Head	1.4 Applicable standards and regulations	Default
Eu.SCI-ILS.PDI.19	Info	The applicable standards and regulations used in EULYNX are listed in the EULYNX Reference Document List [Eu.Doc.12].	Default
Eu.SCI-ILS.PDI.159	Info	The applicability of each reference of this specification is provided by the column "applicability" in the EULYNX Reference Document [Eu.Doc.12], when the value "SCI-ILS" is stated.	Default
Eu.SCI-ILS.PDI.20	Head	1.5 Applicable documents	Default
Eu.SCI-ILS.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-ILS.PDI.24	Head	1.6 Appendices	Default
Eu.SCI-ILS.PDI.25	Info	<i>- intentionally left blank -</i>	Default
Eu.SCI-ILS.PDI.150	Head	1.7 Terms and abbreviations	Default
Eu.SCI-ILS.PDI.151	Info	The terms and abbreviations are listed in the EULYNX Glossary [Eu.Doc.9].	Default
Eu.SCI-ILS.PDI.152	Head	1.8 Variability management	Default
Eu.SCI-ILS.PDI.153	Info	The 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-ILS.PDI.26	Head	1.9 Definition of object types	Default
Eu.SCI-ILS.PDI.27	Info	The following definition for object types is applied in this document:	Default
Eu.SCI-ILS.PDI.28	Info	<ul style="list-style-type: none"> • "Req" - This denotes a mandatory requirement. 	Default
Eu.SCI-ILS.PDI.31	Info	<ul style="list-style-type: none"> • "Info" - This denotes additional information to help understand the specification. These objects do not specify any additional requirements. 	Default
Eu.SCI-ILS.PDI.32	Info	<ul style="list-style-type: none"> • "Head" - This denotes chapter headings. 	Default

ID	Type	Requirement	Appl.														
Eu.SCI-ILS.PDI.33	Head	2 General requirements	Default														
Eu.SCI-ILS.PDI.705	Req	All references to [Eu.Doc.41] refer to Requirements specification for SCI-ILS version 4.3.	Default														
Eu.SCI-ILS.PDI.611	Req	All references to [Eu.Doc.93] refer to Interface specification SCI Generic version 3.3.	Default														
Eu.SCI-ILS.PDI.42	Head	2.1 Version handling	Default														
Eu.SCI-ILS.PDI.44	Info	The version handling is described in [Eu.Doc.93].	Default														
Eu.SCI-ILS.PDI.610	Req	The PDI-version of the SCI-ILS as described in this document is 0x05.	Default														
Eu.SCI-ILS.PDI.49	Head	2.2 Communication requirements	Default														
Eu.SCI-ILS.PDI.50	Info	The Communication requirements are described in [Eu.Doc.93].	Default														
Eu.SCI-ILS.PDI.706	Head	2.3 Functional requirements	Default														
Eu.SCI-ILS.PDI.707	Info	The functional requirements for SCI-ILS are described in [Eu.Doc.41].	Default														
Eu.SCI-ILS.PDI.54	Head	3 Telegrams SCI-ILS.PDI	Default														
Eu.SCI-ILS.PDI.55	Info	This chapter defines the SCI-ILS.PDI telegrams.	Default														
Eu.SCI-ILS.PDI.56	Head	3.1 Telegram structure	Default														
Eu.SCI-ILS.PDI.57	Info	The telegram structure is specified in [Eu.Doc.93].	Default														
Eu.SCI-ILS.PDI.64	Head	3.2 Sender and Receiver Identifier	Default														
Eu.SCI-ILS.PDI.65	Info	The identification of communications partners is specified in [Eu.Doc.93].	Default														
Eu.SCI-ILS.PDI.602	Head	3.3 Payload element ID overview	Default														
Eu.SCI-ILS.PDI.603	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-ILS.PDI.604	Info	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-ILS.PDI.605	Info	Payload element IDs and length used by telegrams <table><tr><td>Payload element IDs used by telegrams</td><td>Length</td></tr><tr><td>-----</td><td>-----</td></tr><tr><td>Activation Zone ID</td><td>20 Chars</td></tr><tr><td>Approach Zone ID</td><td>20 Chars</td></tr><tr><td>Boundary ID</td><td>20 Chars</td></tr><tr><td>Route ID</td><td>20 Chars</td></tr><tr><td>Overlap ID</td><td>20 Chars</td></tr></table>	Payload element IDs used by telegrams	Length	-----	-----	Activation Zone ID	20 Chars	Approach Zone ID	20 Chars	Boundary ID	20 Chars	Route ID	20 Chars	Overlap ID	20 Chars	Default
Payload element IDs used by telegrams	Length																
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Approach Zone ID	20 Chars																
Boundary ID	20 Chars																
Route ID	20 Chars																
Overlap ID	20 Chars																
Eu.SCI-ILS.PDI.70	Head	3.4 Message and command type overview	Default														
Eu.SCI-ILS.PDI.71	Info	The following table shows permitted message types for the SCI-ILS.PDI. The Subsystem - Electronic Interlocking and Adjacent Interlocking System send and receive all messages. The permitted generic message types are specified in [Eu.Doc.93].	Default														

ID	Type	Requirement			Appl.																																																																					
		<table><thead><tr><th>Message Type</th><th>Value</th><th>Purpose</th></tr></thead><tbody><tr><td><i>message</i> Activation Zone Status</td><td>0x0001</td><td>report the status of an activation zone</td></tr><tr><td><i>message</i> Approach Zone Status</td><td>0x0002</td><td>report the status of an approach zone</td></tr><tr><td><i>command</i> Access Restriction Request</td><td>0x0003</td><td>request the activation or deactivation of an access restriction to the track section</td></tr><tr><td><i>message</i> Access Restriction Status</td><td>0x0012</td><td>report the status of an access restriction of the track section</td></tr><tr><td><i>message</i> Line Status</td><td>0x0004</td><td>report the status of the line</td></tr><tr><td><i>command</i> Flank Protection Request</td><td>0x0005</td><td>request the provision or cancellation of flank protection</td></tr><tr><td><i>message</i> Flank Protection Status</td><td>0x0013</td><td>report the status of flank protection</td></tr><tr><td><i>message</i> Line Direction Control</td><td>0x0006</td><td>report the current line direction request the line direction "exit" or hand over the line direction “exit” enable or disable line block direction and report its status</td></tr><tr><td><i>command</i> Route Request</td><td>0x0007</td><td>request the initialisation of a secondary route</td></tr><tr><td><i>message</i> Route Status</td><td>0x0008</td><td>report the status of a secondary route</td></tr><tr><td><i>message</i> Route Monitoring Status</td><td>0x0009</td><td>report the status of the route monitoring of a secondary route</td></tr><tr><td><i>command</i> Route Cancellation Request</td><td>0x000A</td><td>request the cancellation of a secondary route</td></tr><tr><td><i>command</i> Abort Route Cancellation Request</td><td>0x0016</td><td>request the abortion of the route cancellation</td></tr><tr><td><i>message</i> Train Operated Route Release Status</td><td>0x000B</td><td>report the status of the train operated release of the track section adjacent to the boundary</td></tr><tr><td><i>message</i> Signal Status</td><td>0x000C</td><td>report the status of a signal</td></tr><tr><td><i>message</i> TVPS Status</td><td>0x000D</td><td>report the status of a TVPS adjacent to a boundary</td></tr><tr><td><i>message</i> Opposite Main Signal Status</td><td>0x000E</td><td>report the status of the opposite main signals</td></tr><tr><td><i>command</i> Route Pretest Request</td><td>0x000F</td><td>request the pretest of a secondary route</td></tr><tr><td><i>message</i> Route Pretest Status</td><td>0x0010</td><td>report the status of a secondary route pretest</td></tr><tr><td><i>command</i> Route Release Inhibition Activation Request</td><td>0x0011</td><td>request the activation of the inhibited route release</td></tr><tr><td><i>message</i> Route Release Inhibition Status</td><td>0x0014</td><td>report the status of the inhibited route release</td></tr><tr><td><i>message</i> TDP Status</td><td>0x0015</td><td>report the status of the TDP</td></tr></tbody></table>			Message Type	Value	Purpose	<i>message</i> Activation Zone Status	0x0001	report the status of an activation zone	<i>message</i> Approach Zone Status	0x0002	report the status of an approach zone	<i>command</i> Access Restriction Request	0x0003	request the activation or deactivation of an access restriction to the track section	<i>message</i> Access Restriction Status	0x0012	report the status of an access restriction of the track section	<i>message</i> Line Status	0x0004	report the status of the line	<i>command</i> Flank Protection Request	0x0005	request the provision or cancellation of flank protection	<i>message</i> Flank Protection Status	0x0013	report the status of flank protection	<i>message</i> Line Direction Control	0x0006	report the current line direction request the line direction "exit" or hand over the line direction “exit” enable or disable line block direction and report its status	<i>command</i> Route Request	0x0007	request the initialisation of a secondary route	<i>message</i> Route Status	0x0008	report the status of a secondary route	<i>message</i> Route Monitoring Status	0x0009	report the status of the route monitoring of a secondary route	<i>command</i> Route Cancellation Request	0x000A	request the cancellation of a secondary route	<i>command</i> Abort Route Cancellation Request	0x0016	request the abortion of the route cancellation	<i>message</i> Train Operated Route Release Status	0x000B	report the status of the train operated release of the track section adjacent to the boundary	<i>message</i> Signal Status	0x000C	report the status of a signal	<i>message</i> TVPS Status	0x000D	report the status of a TVPS adjacent to a boundary	<i>message</i> Opposite Main Signal Status	0x000E	report the status of the opposite main signals	<i>command</i> Route Pretest Request	0x000F	request the pretest of a secondary route	<i>message</i> Route Pretest Status	0x0010	report the status of a secondary route pretest	<i>command</i> Route Release Inhibition Activation Request	0x0011	request the activation of the inhibited route release	<i>message</i> Route Release Inhibition Status	0x0014	report the status of the inhibited route release	<i>message</i> TDP Status	0x0015	report the status of the TDP	
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Eu.SCI-ILS.PDI.72	Head	3.5 Telegram definitions			Default																																																																					
Eu.SCI-ILS.PDI.73	Info	In this chapter, telegrams for SCI-ILS.PDI are defined. The generic telegrams are defined in [Eu.Doc.93].			Default																																																																					
Eu.SCI-ILS.PDI.458	Info	The sender of a telegram is either the Subsystem - Electronic Interlocking or the Adjacent Interlocking System depending on the specific situation.			Default																																																																					
Eu.SCI-ILS.PDI.459	Info	The receiver of a telegram is either the Subsystem - Electronic Interlocking or the Adjacent Interlocking System depending on the specific situation.			Default																																																																					

ID	Type	Requirement	Appl.																
Eu.SCI-ILS.PDI.111	Head	3.5.1 Message "Activation Zone Status"	Default																
Eu.SCI-ILS.PDI.112	Info	With this telegram the sender reports the status of an activation zone. This telegram refines the InformationFlow "Msg_Activation_Zone_Status" specified in the requirements specification (ID Eu.ILS.3960).	Default																
Eu.SCI-ILS.PDI.113	Info	Telegram definition for message "Activation Zone Status" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63..82</td><td>Activation Zone ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>83</td><td>Activation Zone Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63..82	Activation Zone ID (20 Bytes ISO IEC 8859-1:1998)	83	Activation Zone Status (1 Byte binary)	Default
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83	Activation Zone Status (1 Byte binary)																		
Eu.SCI-ILS.PDI.114	Req	Permitted values for message "Activation Zone Status":	Default																
Eu.SCI-ILS.PDI.115	Req	Message Type The message bytes 1-2 shall be set to 0x0001.	Default																
Eu.SCI-ILS.PDI.116	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Default																
Eu.SCI-ILS.PDI.117	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Default																
Eu.SCI-ILS.PDI.464	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	Default																
Eu.SCI-ILS.PDI.195	Req	Activation Zone ID The message bytes 63-82 shall contain the identifier of the activation zone in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	Default																
Eu.SCI-ILS.PDI.448	Req	Activation Zone Status The message byte 83 shall contain the status of the activation zone. Permitted values: value meaning ----- -----	Default																
Eu.SCI-ILS.PDI.449	Req	0x01 active	Default																
Eu.SCI-ILS.PDI.450	Req	0x02 not active	Default																
Eu.SCI-ILS.PDI.202	Head	3.5.2 Message "Approach Zone Status"	007000 007400 007800 007900 008000 008200 008400 008800 310900																
Eu.SCI-ILS.PDI.203	Info	With this telegram the sender reports the status of an approach zone. This telegram refines the InformationFlow "Msg_Approach_Zone_Status" specified in the requirements specification (ID Eu.ILS.3961).	007000 007400 007800																

ID	Type	Requirement	Appl.																
			007900 008000 008200 008400 008800 310900																
Eu.SCI-ILS.PDI.204	Info	<div>Telegram definition for message "Approach Zone Status"</div> <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0002 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63..82</td><td>Approach Zone ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>83</td><td>Approach Zone Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (1 Byte binary)	01..02	Message Type: 0x0002 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63..82	Approach Zone ID (20 Bytes ISO IEC 8859-1:1998)	83	Approach Zone Status (1 Byte binary)	007000 007400 007800 007900 008000 008200 008400 008800 310900
Byte-Nr.	Content																		
00	Protocol Type: 0x01 (1 Byte binary)																		
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63..82	Approach Zone ID (20 Bytes ISO IEC 8859-1:1998)																		
83	Approach Zone Status (1 Byte binary)																		
Eu.SCI-ILS.PDI.205	Req	Permitted values for message "Approach Zone Status":	007000 007400 007800 007900 008000 008200 008400 008800 310900																
Eu.SCI-ILS.PDI.206	Req	Message Type The message bytes 1-2 shall be set to 0x0002.	007000 007400 007800 007900 008000 008200 008400 008800 310900																
Eu.SCI-ILS.PDI.207	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008000 008200 008400 008800 310900																
Eu.SCI-ILS.PDI.208	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008000																

ID	Type	Requirement	Appl.
			008200 008400 008800 310900
Eu.SCI-ILS.PDI.465	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.209	Req	Approach Zone ID The message bytes 63-82 shall contain the identifier of the approach zone in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.210	Req	Approach Zone Status The message byte 83 shall contain the status of the activation zone. Permitted values: value meaning ----- -----	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.451	Req	0x01 active	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.452	Req	0x02 not active	007000 007400 007800 007900 008000 008200 008400 008800 310900

ID	Type	Requirement	Appl.																
Eu.SCI-ILS.PDI.223	Head	3.5.3 Command "Access Restriction Request"	007000 007400 007800 007900 008200 310900																
Eu.SCI-ILS.PDI.224	Info	With this telegram the sender requests the activation or deactivation of an access restriction to the track section. This telegram refines the InformationFlow "Cd_Access_Restriction_Request" specified in the requirements specification (ID Eu.ILS.3953).	007000 007400 007800 007900 008200 310900																
Eu.SCI-ILS.PDI.225	Info	Telegram definition for command "Access Restriction Request" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Access Restriction Request (1 Byte binary)</td></tr><tr><td>64</td><td>Access Restriction Type (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63	Access Restriction Request (1 Byte binary)	64	Access Restriction Type (1 Byte binary)	007000 007400 007800 007900 008200 310900
Byte-Nr.	Content																		
00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																		
63	Access Restriction Request (1 Byte binary)																		
64	Access Restriction Type (1 Byte binary)																		
Eu.SCI-ILS.PDI.226	Req	Permitted values for command "Access Restriction Request":	007000 007400 007800 007900 008200 310900																
Eu.SCI-ILS.PDI.227	Req	Message Type The message bytes 1-2 shall be set to 0x0003.	007000 007400 007800 007900 008200 310900																
Eu.SCI-ILS.PDI.228	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008200 310900																

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.229	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008200 310900
Eu.SCI-ILS.PDI.397	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008200 310900
Eu.SCI-ILS.PDI.750	Req	Access Restriction Request The message byte 63 shall contain the request, whether the access restriction has to be activated or deactivated: <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	007000 007400 007800 007900 008200 310900
Eu.SCI-ILS.PDI.751	Req	0x01 Request to activate access restriction	007000 007400 007800 007900 008200 310900
Eu.SCI-ILS.PDI.752	Req	0x02 Request to deactivate access restriction	007000 007400 007800 007900 008200 310900
Eu.SCI-ILS.PDI.230	Req	Access Restriction Type The message byte 64 shall contain the type of the access restriction. Permitted values: <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	007000 007400 007800 007900 008200 310900
Eu.SCI-ILS.PDI.487	Req	0x01 no access	007000 008200
Eu.SCI-ILS.PDI.488	Req	0x02 work track	007000 008200
Eu.SCI-ILS.PDI.646	Req	0x03 track out of service	007000 008200

ID	Type	Requirement		Appl.
Eu.SCI-ILS.PDI.647	Req	0x04	emergency train	007000 008200
Eu.SCI-ILS.PDI.648	Req	0x05	secondary vehicle	007000 008200
Eu.SCI-ILS.PDI.649	Req	0x06	work team	007000 008200
Eu.SCI-ILS.PDI.650	Req	0x07	level crossing in degraded operation	007000 008200
Eu.SCI-ILS.PDI.671	Req	0x08	clearance check required	007000 008200
Eu.SCI-ILS.PDI.672	Req	0x09	section check required	007000 008200
Eu.SCI-ILS.PDI.673	Req	0x10	no electric trains	007000 008200
Eu.SCI-ILS.PDI.674	Req	0x11	extraordinary transport	007000 008200
Eu.SCI-ILS.PDI.675	Req	0x12	catenary off / pantograph down	007000 008200
Eu.SCI-ILS.PDI.676	Req	0x13	written order required	007000 008200
Eu.SCI-ILS.PDI.651	Req	0xFF	Access restriction type not applicable	007000 007400 007800 007900 008200 310900
Eu.SCI-ILS.PDI.618	Head	3.5.4 Message "Access Restriction Status"		007000 007400 007800 007900 008000 008200 310900

ID	Type	Requirement	Appl.																
Eu.SCI-ILS.PDI.619	Info	With this telegram the sender reports the status of an access restriction to the track section. This telegram refines the InformationFlow "Msg_Access_Restriction_Status" specified in the requirements specification (ID Eu.ILS.3959).	007000 007400 007800 007900 008000 008200 310900																
Eu.SCI-ILS.PDI.620	Info	Telegram definition for message "Access Restriction Status" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Access Restriction Activation Status (1 Byte binary)</td></tr><tr><td>64</td><td>Access Restriction Type (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63	Access Restriction Activation Status (1 Byte binary)	64	Access Restriction Type (1 Byte binary)	007000 007400 007800 007900 008000 008200 310900
Byte-Nr.	Content																		
00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																		
63	Access Restriction Activation Status (1 Byte binary)																		
64	Access Restriction Type (1 Byte binary)																		
Eu.SCI-ILS.PDI.630	Req	Permitted values for message "Access Restriction Status":	007000 007400 007800 007900 008000 008200 310900																
Eu.SCI-ILS.PDI.631	Req	Message Type The message bytes 1-2 shall be set to 0x0012.	007000 007400 007800 007900 008000 008200 310900																
Eu.SCI-ILS.PDI.632	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008000 008200 310900																
Eu.SCI-ILS.PDI.633	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008000 008200 310900																

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.634	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008000 008200 310900
Eu.SCI-ILS.PDI.697	Req	Access Restriction Activation Status The message byte 63 shall contain the activation status of the access restriction. Permitted values: value meaning ----- -----	007000 007400 007800 007900 008000 008200 310900
Eu.SCI-ILS.PDI.698	Req	0x01 active	007000 007400 007800 007900 008000 008200 310900
Eu.SCI-ILS.PDI.699	Req	0x02 not active	007000 007400 007800 007900 008000 008200 310900
Eu.SCI-ILS.PDI.635	Req	Access Restriction Type The message byte 64 shall contain the type of the access restriction. Permitted values: value meaning ----- -----	007000 007400 007800 007900 008000 008200 310900
Eu.SCI-ILS.PDI.232	Req	0x01 no access	007000 008000 008200
Eu.SCI-ILS.PDI.233	Req	0x02 work track	007000 008000 008200
Eu.SCI-ILS.PDI.653	Req	0x03 track out of service	007000 008200
Eu.SCI-ILS.PDI.654	Req	0x04 emergency train	007000 008200

ID	Type	Requirement		Appl.
Eu.SCI-ILS.PDI.655	Req	0x05	secondary vehicle	007000 008000 008200
Eu.SCI-ILS.PDI.656	Req	0x06	work team	007000 008000 008200
Eu.SCI-ILS.PDI.657	Req	0x07	level crossing in degraded operation	007000 008000 008200
Eu.SCI-ILS.PDI.658	Req	0x08	clearance check required	007000 008000 008200
Eu.SCI-ILS.PDI.659	Req	0x09	section check required	007000 008000 008200
Eu.SCI-ILS.PDI.660	Req	0x10	no electric trains	007000 008200
Eu.SCI-ILS.PDI.661	Req	0x11	extraordinary transport	007000 008000 008200
Eu.SCI-ILS.PDI.662	Req	0x12	catenary off / pantograph down	007000 008000 008200
Eu.SCI-ILS.PDI.663	Req	0x13	written order required	007000 008000 008200
Eu.SCI-ILS.PDI.664	Req	0x14	manual route condition	007000 008000
Eu.SCI-ILS.PDI.665	Req	0x15	do not use opposite direction	007000 008000
Eu.SCI-ILS.PDI.666	Req	0x16	use opposite direction	007000 008000
Eu.SCI-ILS.PDI.667	Req	0x17	no LX remote supervision	007000 008000

ID	Type	Requirement	Appl.														
Eu.SCI-ILS.PDI.668	Req	0x18 LX remote supervision timeout	007000 008000														
Eu.SCI-ILS.PDI.669	Req	0xFF access restriction type not applicable	007000 007400 007800 007900 008200 310900														
Eu.SCI-ILS.PDI.234	Head	3.5.5 Message "Line Status"	007000 007400 007800 007900 008000 008200 008400 008800 310900														
Eu.SCI-ILS.PDI.247	Info	With this telegram the sender reports the status of the line. This telegram refines the InformationFlow "Msg_Line_Status" specified in the requirements specification (ID Eu.ILS.3965).	007000 007400 007800 007900 008000 008200 008400 008800 310900														
Eu.SCI-ILS.PDI.248	Info	Telegram definition for message "Line Status" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Line Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63	Line Status (1 Byte binary)	007000 007400 007800 007900 008000 008200 008400 008800 310900
Byte-Nr.	Content																
00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																
63	Line Status (1 Byte binary)																
Eu.SCI-ILS.PDI.249	Req	Permitted values for message "Line Status":	007000 007400 007800 007900 008000 008200 008400 008800 310900														

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.251	Req	Message Type The message bytes 1-2 shall be set to 0x0004.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.252	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.250	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.398	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.253	Req	Line Status The message byte 63 shall contain the status of the line. Permitted values: value meaning ----- -----	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.255	Req	0x01 vacant	007000 007400 007800 007900 008000 008200

ID	Type	Requirement	Appl.														
			008400 008800 310900														
Eu.SCI-ILS.PDI.256	Req	0x02 occupied	007000 007400 007800 007900 008000 008200 008400 008800 310900														
Eu.SCI-ILS.PDI.590	Req	0x03 request for line block reset	310900														
Eu.SCI-ILS.PDI.237	Head	3.5.6 Command "Flank Protection Request"	007000 007400 007800 007900 008400 008800 310900														
Eu.SCI-ILS.PDI.277	Info	With this telegram the sender requests the provision or cancellation of flank protection. This telegram refines the InformationFlow "Cd_Flank_Protection_Request" specified in the requirements specification (ID Eu.ILS.3954).	007000 007400 007800 007900 008400 008800 310900														
Eu.SCI-ILS.PDI.280	Info	Telegram definition for command "Flank Protection Request" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0005 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Flank Protection Request (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (1 Byte binary)	01..02	Message Type: 0x0005 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63	Flank Protection Request (1 Byte binary)	007000 007400 007800 007900 008400 008800 310900
Byte-Nr.	Content																
00	Protocol Type: 0x01 (1 Byte binary)																
01..02	Message Type: 0x0005 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																
63	Flank Protection Request (1 Byte binary)																
Eu.SCI-ILS.PDI.281	Req	Permitted values for command "Flank Protection Request":	007000 007400 007800 007900 008400 008800 310900														

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.282	Req	Message Type The message bytes 1-2 shall be set to 0x0005.	007000 007400 007800 007900 008400 008800 310900
Eu.SCI-ILS.PDI.283	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008400 008800 310900
Eu.SCI-ILS.PDI.446	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008400 008800 310900
Eu.SCI-ILS.PDI.399	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008400 008800 310900
Eu.SCI-ILS.PDI.284	Req	Flank Protection Request The message byte 63 shall contain the request, whether the flank protection has to be provided or cancelled. Permitted values: value meaning ----- -----	007000 007400 007800 007900 008400 008800 310900
Eu.SCI-ILS.PDI.485	Req	0x01 provision	007000 007400 007800 007900 008400 008800 310900

ID	Type	Requirement	Appl.														
Eu.SCI-ILS.PDI.486	Req	0x02 cancellation	007000 007400 007800 007900 008400 008800 310900														
Eu.SCI-ILS.PDI.616	Head	3.5.7 Message "Flank Protection Status"	007000 007400 007800 007900 008400 008800 310900														
Eu.SCI-ILS.PDI.617	Info	With this telegram the sender reports the status of flank protection. This telegram refines the InformationFlow "Msg_Flank_Protection_Status" specified in the requirements specification (ID Eu.ILS.3964).	007000 007400 007800 007900 008400 008800 310900														
Eu.SCI-ILS.PDI.621	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: 0x01 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Flank Protection Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63	Flank Protection Status (1 Byte binary)	007000 007400 007800 007900 008400 008800 310900
Byte-Nr.	Content																
00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																
63	Flank Protection Status (1 Byte binary)																
Eu.SCI-ILS.PDI.638	Req	Permitted values for message "Flank Protection Status":	007000 007400 007800 007900 008400 008800 310900														
Eu.SCI-ILS.PDI.639	Req	Message Type The message bytes 1-2 shall be set to 0x0013.	007000 007400 007800 007900 008400 008800 310900														

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.640	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008400 008800 310900
Eu.SCI-ILS.PDI.641	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008400 008800 310900
Eu.SCI-ILS.PDI.642	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008400 008800 310900
Eu.SCI-ILS.PDI.643	Req	Flank Protection Status The message byte 63 shall contain the status of the flank protection. Permitted values: value meaning ----- -----	007000 007400 007800 007900 008400 008800 310900
Eu.SCI-ILS.PDI.286	Req	0x01 provided	007000 007400 007800 007900 008400 008800 310900
Eu.SCI-ILS.PDI.287	Req	0x02 not provided	007000 007400 007800 007900 008400 008800 310900
Eu.SCI-ILS.PDI.241	Head	3.5.8 Message "Line Direction Control"	007000 007400 007800 007900 008000 008200 008400

ID	Type	Requirement	Appl.																		
			008800 310900																		
Eu.SCI-ILS.PDI.319	Info	With this telegram the sender reports the current line direction, requests the line direction "exit" or hands over the line direction "exit". It is also used to enable or disable line block direction and report its status. This telegram refines the InformationFlow "Msg_Line_Direction_Control" specified in the requirements specification (ID Eu.ILS.3962).	007000 007400 007800 007900 008000 008200 008400 008800 310900																		
Eu.SCI-ILS.PDI.320	Info	Telegram definition for message "Line Direction Control" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Line Direction Control Information (1 Byte binary)</td></tr><tr><td>64</td><td>Line Direction Status (1 Byte binary)</td></tr><tr><td>65..66</td><td>IM Specific Data (2 Bytes binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63	Line Direction Control Information (1 Byte binary)	64	Line Direction Status (1 Byte binary)	65..66	IM Specific Data (2 Bytes binary)	007000 007400 007800 007900 008000 008200 008400 008800 310900
Byte-Nr.	Content																				
00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																				
63	Line Direction Control Information (1 Byte binary)																				
64	Line Direction Status (1 Byte binary)																				
65..66	IM Specific Data (2 Bytes binary)																				
Eu.SCI-ILS.PDI.321	Req	Permitted values for message "Line Direction Control":	007000 007400 007800 007900 008000 008200 008400 008800 310900																		
Eu.SCI-ILS.PDI.322	Req	Message Type The message bytes 1-2 shall be set to 0x0006.	007000 007400 007800 007900 008000 008200 008400 008800 310900																		

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.323	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.324	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.403	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.325	Req	Line Direction Control Information The message byte 63 shall contain the control information for the line direction. Permitted values: value meaning ----- -----	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.327	Req	0x01 no direction	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.328	Req	0x02 entry	007000 007400 007800 007900 008000 008200

ID	Type	Requirement	Appl.
			008400 008800 310900
Eu.SCI-ILS.PDI.402	Req	0x03 exit	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.483	Req	0x04 direction request	007000 007400 007800 007900 008000 008400 008800 310900
Eu.SCI-ILS.PDI.484	Req	0x05 direction handover	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.579	Req	0x06 direction handover aborted	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.591	Req	0x07 disable line block direction	007000 008400 310900
Eu.SCI-ILS.PDI.592	Req	0x08 enable line block direction	007000 008400 310900
Eu.SCI-ILS.PDI.584	Req	Line Direction Status The message byte 64 shall contain the line direction status. Permitted values:	007000 007400 007800

ID	Type	Requirement	Appl.
		<div>value meaning</div> <div>----- -----</div>	007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.585	Req	0x01 released	007000 008400 310900
Eu.SCI-ILS.PDI.586	Req	0x02 locked	007000 008400 310900
Eu.SCI-ILS.PDI.593	Req	0x03 line block direction disabled	007000 008400 310900
Eu.SCI-ILS.PDI.587	Req	0xFF line direction status not applicable	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.731	Req	IM Specific Data The message bytes 65-66 shall contain IM specific data. Permitted values: <div>value meaning</div> <div>----- -----</div>	Default
Eu.SCI-ILS.PDI.732	Req	0x0001..0xFFFE defined by national specifications	Default
Eu.SCI-ILS.PDI.733	Req	0xFFFF IM specific data not applicable	Default
Eu.SCI-ILS.PDI.243	Head	3.5.9 Command "Route Request"	Default
Eu.SCI-ILS.PDI.339	Info	With this telegram the sender requests the initialisation of a secondary route. This telegram refines the InformationFlow "Cd_Route_Request" specified in the requirements specification (ID Eu.ILS.3958).	Default

ID	Type	Requirement	Appl.																
Eu.SCI-ILS.PDI.340	Info	Telegram definition for command "Route Request"	Default																
		<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0007 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63..82</td><td>Route ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>83</td><td>Route Type (1 Byte binary)</td></tr></table>		Byte-Nr.	Content	00	Protocol Type: 0x01 (1 Byte binary)	01..02	Message Type: 0x0007 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63..82	Route ID (20 Bytes ISO IEC 8859-1:1998)	83	Route Type (1 Byte binary)
		Byte-Nr.		Content															
		00		Protocol Type: 0x01 (1 Byte binary)															
		01..02		Message Type: 0x0007 (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		Boundary ID (20 Bytes ISO IEC 8859-1:1998)															
		63..82		Route ID (20 Bytes ISO IEC 8859-1:1998)															
83	Route Type (1 Byte binary)																		
Eu.SCI-ILS.PDI.341	Req	Permitted values for command "Route Request":	Default																
Eu.SCI-ILS.PDI.342	Req	Message Type The message bytes 1-2 shall be set to 0x0007.	Default																
Eu.SCI-ILS.PDI.343	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Default																
Eu.SCI-ILS.PDI.344	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Default																
Eu.SCI-ILS.PDI.345	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	Default																
Eu.SCI-ILS.PDI.409	Req	Route ID The message bytes 63-82 shall contain the route identifier in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	Default																
Eu.SCI-ILS.PDI.410	Req	Route Type The message byte 83 shall contain the route type. Permitted values:	Default																
		<table><tr><td>value</td><td>meaning</td></tr><tr><td>-----</td><td>-----</td></tr></table>		value	meaning	-----	-----												
value	meaning																		
-----	-----																		
Eu.SCI-ILS.PDI.412	Req	<table><tr><td>0x01</td><td>main route</td></tr></table>	0x01	main route	Default														
0x01	main route																		
Eu.SCI-ILS.PDI.413	Req	<table><tr><td>0x02</td><td>shunting route</td></tr></table>	0x02	shunting route	007000 007400 007600 007800 007900 008000 008800 310900														
0x02	shunting route																		
Eu.SCI-ILS.PDI.460	Req	<table><tr><td>0x03</td><td>on-sight route</td></tr></table>	0x03	on-sight route	007000 007400 007600 007900 008400 008800 310900														
0x03	on-sight route																		
Eu.SCI-ILS.PDI.540	Req	<table><tr><td>0x04</td><td>SR train route</td></tr></table>	0x04	SR train route	007400														
0x04	SR train route																		

ID	Type	Requirement	Appl.																		
Eu.SCI-ILS.PDI.541	Req	0x05 special train route	007400																		
Eu.SCI-ILS.PDI.542	Req	0x06 temporary shunting area	007400																		
Eu.SCI-ILS.PDI.238	Head	3.5.10 Message "Route Status"	Default																		
Eu.SCI-ILS.PDI.288	Info	With this telegram the sender reports the status of a secondary route. This telegram refines the InformationFlow "Msg_Route_Status" specified in the requirements specification (ID Eu.ILS.3970).	Default																		
Eu.SCI-ILS.PDI.289	Info	Telegram definition for message "Route Status" <div><table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63..82</td><td>Route ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>83</td><td>Route Type (1 Byte binary)</td></tr><tr><td>84</td><td>Route Status (1 Byte binary)</td></tr></table></div>	Byte-Nr.	Content	00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63..82	Route ID (20 Bytes ISO IEC 8859-1:1998)	83	Route Type (1 Byte binary)	84	Route Status (1 Byte binary)	Default
Byte-Nr.	Content																				
00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																				
63..82	Route ID (20 Bytes ISO IEC 8859-1:1998)																				
83	Route Type (1 Byte binary)																				
84	Route Status (1 Byte binary)																				
Eu.SCI-ILS.PDI.291	Req	Permitted values for message "Route Status":	Default																		
Eu.SCI-ILS.PDI.379	Req	Message Type The message bytes 1-2 shall be set to 0x0008.	Default																		
Eu.SCI-ILS.PDI.293	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Default																		
Eu.SCI-ILS.PDI.292	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Default																		
Eu.SCI-ILS.PDI.401	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	Default																		
Eu.SCI-ILS.PDI.400	Req	Route ID The message bytes 63-82 shall contain the route identifier in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	Default																		
Eu.SCI-ILS.PDI.405	Req	Route Type The message byte 83 shall contain the route type. Permitted values: <div><table><tr><td>value</td><td>meaning</td></tr><tr><td>-----</td><td>-----</td></tr></table></div>	value	meaning	-----	-----	Default														
value	meaning																				
-----	-----																				
Eu.SCI-ILS.PDI.407	Req	0x01 main route	Default																		
Eu.SCI-ILS.PDI.408	Req	0x02 shunting route	007000 007400 007600 007800 007900 008000 008800 310900																		

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.453	Req	0x03on-sight route	007000 007400 007600 007900 008400 008800 310900
Eu.SCI-ILS.PDI.543	Req	0x04SR train route	007400
Eu.SCI-ILS.PDI.544	Req	0x05special train route	007400
Eu.SCI-ILS.PDI.545	Req	0x06temporary shunting area	007400
Eu.SCI-ILS.PDI.294	Req	Route Status The message byte 84 shall contain the information of the route status. Permitted values: value meaning ----- -----	Default
Eu.SCI-ILS.PDI.531	Req	0x01initiated	Default
Eu.SCI-ILS.PDI.296	Req	0x02locked	Default
Eu.SCI-ILS.PDI.297	Req	0x03no route	Default
Eu.SCI-ILS.PDI.744	Req	0x04cancelling	008400
Eu.SCI-ILS.PDI.242	Head	3.5.11 Message "Route Monitoring Status"	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.329	Info	With this telegram the sender reports the status of the route monitoring of a secondary route. This telegram refines the InformationFlow "Msg_Route_Monitoring_Status" specified in the requirements specification (ID Eu.ILS.3967).	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.330	Info	Telegram definition for message "Route Monitoring Status"	007000 007400 007800 007900 008000 008200 008400

ID	Type	Requirement		Appl.
		Byte-Nr.	Content	008800 310900
		00	Protocol Type: 0x01 (1 Byte binary)	
		01..02	Message Type: 0x0009 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	
		63..82	Route ID (20 Bytes ISO IEC 8859-1:1998)	
		83	Route Type (1 Byte binary)	
		84..103	Overlap ID (20 Bytes ISO IEC 8859-1:1998)	
		104	Route Monitoring (1 Byte binary)	
		105	Occupancy Monitoring (1 Byte binary)	
		106	Level Crossing Monitoring (1 Byte binary)	
		107	Entrance Speed (1 Byte binary)	
		108	Target Speed (1 Byte binary)	
		109	Dynamic or Static Target Speed (1 Byte binary)	
Eu.SCI-ILS.PDI.331	Req	Permitted values for message "Route Monitoring Status":		007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.332	Req	Message Type The message bytes 1-2 shall be set to 0x0009.		007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.333	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.		007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.334	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.		007000 007400 007800 007900

ID	Type	Requirement	Appl.
			008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.430	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.415	Req	Route ID The message bytes 63-82 shall contain the route identifier in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.416	Req	Route Type The message byte 83 shall contain the route type. Permitted values: value meaning ----- -----	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.418	Req	0x01 main route	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.419	Req	0x02 shunting route	007000 007400 007800 007900 008000 008800 310900

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.546	Req	0x03 on-sight route	007000 007400 007900 008400 008800 310900
Eu.SCI-ILS.PDI.532	Req	0x04 SR train route	007400
Eu.SCI-ILS.PDI.533	Req	0x05 special train route	007400
Eu.SCI-ILS.PDI.534	Req	0x06 temporary shunting area	007400
Eu.SCI-ILS.PDI.420	Req	Overlap ID The message bytes 84-103 shall contain the identifier of the overlap in ISO IEC 8859-1:1998 format as defined by national requirements. according to section 3.3.	007000 007400 007800 007900 008000 008400 008800 310900
Eu.SCI-ILS.PDI.431	Req	Route Monitoring The message byte 104 shall contain the route monitoring status. Permitted values: value meaning ----- -----	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.433	Req	0x01 route monitoring conditions of secondary route present	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.435	Req	0x02 route monitoring conditions of secondary route not present	007000 007400 007800 007900 008000 008200 008400 008800 310900

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.437	Req	0x03 route monitoring conditions of secondary route present up to next block indicator	007000 008000
Eu.SCI-ILS.PDI.595	Req	0x04 shunting route monitoring conditions of secondary route present	007000 008000
Eu.SCI-ILS.PDI.566	Req	Occupancy Monitoring The message byte 105 shall contain the occupancy monitoring status. Permitted values: <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	007000 007400 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.567	Req	0x01 occupation	007000 007400 008400
Eu.SCI-ILS.PDI.568	Req	0x02 no occupation	007000 007400 008400
Eu.SCI-ILS.PDI.569	Req	0xFF occupancy monitoring not applicable	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.563	Req	Level Crossing Monitoring The message byte 106 shall contain the level crossing monitoring status. Permitted values: <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.564	Req	0x01 level crossing monitoring conditions of secondary route present	007000 007400 007800 007900 008000 008200 008400 008800

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.565	Req	0x02 level crossing monitoring conditions of secondary route not present	007000 007400 007800 007900 008000 008200 008400 008800
Eu.SCI-ILS.PDI.594	Req	0x03 level crossing monitoring conditions present up to next block indicator	007000 007800 008000
Eu.SCI-ILS.PDI.570	Req	0xFF level crossing monitoring not applicable	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.421	Req	Entrance Speed The message byte 107 shall contain the entrance speed of the secondary route.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.700	Req	0x00..0xFE entrance speed in 5 km/h increments	008400
Eu.SCI-ILS.PDI.701	Req	0xFF entrance speed not applicable	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.454	Req	Target Speed The message byte 108 shall contain the target speed of the secondary route.	007000 007400 007800 007900 008000 008200 008400 008800 310900

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.702	Req	0x00..0xFE target speed in 5 km/h increments	008400
Eu.SCI-ILS.PDI.703	Req	0xFF target speed not applicable	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.455	Req	Dynamic or Static Target Speed The message byte 109 shall contain the information of the dynamic or static target speed. Permitted values: value meaning ----- -----	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.456	Req	0x01 dynamic	008400
Eu.SCI-ILS.PDI.457	Req	0x02 static	008400
Eu.SCI-ILS.PDI.571	Req	0xFF dynamic or static target speed not applicable	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.239	Head	3.5.12 Command "Route Cancellation Request"	007000 007400 007800 007900 008000 008200 008400 008800 310900

ID	Type	Requirement	Appl.														
Eu.SCI-ILS.PDI.301	Info	With this telegram the sender requests the cancellation of a secondary route request. This telegram refines the InformationFlow "Cd_Route_Cancellation_Request" specified in the requirements specification (ID Eu.ILS.3955).	007000 007400 007800 007900 008000 008200 008400 008800 310900														
Eu.SCI-ILS.PDI.300	Info	Telegram definition for command "Route Cancellation Request" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x000A (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63..82</td><td>Route ID (20 Bytes ISO IEC 8859-1:1998)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (1 Byte binary)	01..02	Message Type: 0x000A (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63..82	Route ID (20 Bytes ISO IEC 8859-1:1998)	007000 007400 007800 007900 008000 008200 008400 008800 310900
Byte-Nr.	Content																
00	Protocol Type: 0x01 (1 Byte binary)																
01..02	Message Type: 0x000A (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																
63..82	Route ID (20 Bytes ISO IEC 8859-1:1998)																
Eu.SCI-ILS.PDI.299	Req	Permitted values for command "Route Cancellation Request":	007000 007400 007800 007900 008000 008200 008400 008800 310900														
Eu.SCI-ILS.PDI.307	Req	Message Type The message bytes 1-2 shall be set to 0x000A.	007000 007400 007800 007900 008000 008200 008400 008800 310900														
Eu.SCI-ILS.PDI.298	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008000 008200 008400 008800 310900														
Eu.SCI-ILS.PDI.306	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800														

ID	Type	Requirement	Appl.														
			007900 008000 008200 008400 008800 310900														
Eu.SCI-ILS.PDI.303	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008000 008200 008400 008800 310900														
Eu.SCI-ILS.PDI.302	Req	Route ID The message bytes 63-82 shall contain the route identifier in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008000 008200 008400 008800 310900														
Eu.SCI-ILS.PDI.245	Head	3.5.13 Message "Train Operated Route Release Status"	Default														
Eu.SCI-ILS.PDI.359	Info	With this telegram the sender reports the status of the train operated release of the TVPS section adjacent to the boundary This telegram refines the InformationFlow "Msg_Train_Operated_Route_Release_Status" specified in the requirements specification (ID Eu.ILS.3972).	Default														
Eu.SCI-ILS.PDI.360	Info	Telegram definition for message "Train Operated Route Release Status" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x000B (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Train Operated Route Release Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (1 Byte binary)	01..02	Message Type: 0x000B (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63	Train Operated Route Release Status (1 Byte binary)	Default
Byte-Nr.	Content																
00	Protocol Type: 0x01 (1 Byte binary)																
01..02	Message Type: 0x000B (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																
63	Train Operated Route Release Status (1 Byte binary)																
Eu.SCI-ILS.PDI.361	Req	Permitted values for message "Train Operated Route Release Status":	Default														
Eu.SCI-ILS.PDI.362	Req	Message Type The message bytes 1-2 shall be set to 0x000B.	Default														
Eu.SCI-ILS.PDI.363	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Default														
Eu.SCI-ILS.PDI.364	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Default														
Eu.SCI-ILS.PDI.394	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	Default														

ID	Type	Requirement	Appl.																												
Eu.SCI-ILS.PDI.365	Req	Train Operated Route Release Status The message byte 63 shall contain the information for the status of the train operated release. Permitted values: value meaning ----- -----	Default																												
Eu.SCI-ILS.PDI.367	Req	0x01 TVPS adjacent to the boundary is in a correct occupancy sequence	Default																												
Eu.SCI-ILS.PDI.391	Req	0x02 TVPS adjacent to the boundary is released by train	Default																												
Eu.SCI-ILS.PDI.393	Req	0x03 TVPS adjacent to the boundary is not in a correct occupancy sequence and not released by train	Default																												
Eu.SCI-ILS.PDI.244	Head	3.5.14 Message "Signal Status"	007000 007400 007800 007900 008000 008200 008400 008800 310900																												
Eu.SCI-ILS.PDI.349	Info	With this telegram the sender reports the status of a signal. This telegram refines the InformationFlow "Msg_Signal_Status" specified in the requirements specification (ID Eu.ILS.3971).	007000 007400 007800 007900 008000 008200 008400 008800 310900																												
Eu.SCI-ILS.PDI.350	Info	Telegram definition for message "Signal Status" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x000C (2 Byte binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Byte ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Byte ISO IEC 8859-1:1998)</td></tr><tr><td>43..62</td><td>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Basic aspect type (1 Byte binary)</td></tr><tr><td>64</td><td>Extension of basic aspect type (1 Byte binary)</td></tr><tr><td>65</td><td>Speed indicator (1 Byte binary)</td></tr><tr><td>66</td><td>Speed announcement (1 Byte binary)</td></tr><tr><td>67</td><td>Direction indicator (1 Byte binary)</td></tr><tr><td>68</td><td>Direction announcement (1 Byte binary)</td></tr><tr><td>69</td><td>Intentionally Dark (1 Byte binary)</td></tr><tr><td>70..78</td><td>Specified By National Requirements (9 Bytes binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (1 Byte binary)	01..02	Message Type: 0x000C (2 Byte binary)	03..22	Sender Identifier (20 Byte ISO IEC 8859-1:1998)	23..42	Receiver Identifier (20 Byte ISO IEC 8859-1:1998)	43..62	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63	Basic aspect type (1 Byte binary)	64	Extension of basic aspect type (1 Byte binary)	65	Speed indicator (1 Byte binary)	66	Speed announcement (1 Byte binary)	67	Direction indicator (1 Byte binary)	68	Direction announcement (1 Byte binary)	69	Intentionally Dark (1 Byte binary)	70..78	Specified By National Requirements (9 Bytes binary)	007000 007400 007800 007900 008000 008200 008400 008800 310900
Byte-Nr.	Content																														
00	Protocol Type: 0x01 (1 Byte binary)																														
01..02	Message Type: 0x000C (2 Byte binary)																														
03..22	Sender Identifier (20 Byte ISO IEC 8859-1:1998)																														
23..42	Receiver Identifier (20 Byte ISO IEC 8859-1:1998)																														
43..62	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																														
63	Basic aspect type (1 Byte binary)																														
64	Extension of basic aspect type (1 Byte binary)																														
65	Speed indicator (1 Byte binary)																														
66	Speed announcement (1 Byte binary)																														
67	Direction indicator (1 Byte binary)																														
68	Direction announcement (1 Byte binary)																														
69	Intentionally Dark (1 Byte binary)																														
70..78	Specified By National Requirements (9 Bytes binary)																														
Eu.SCI-ILS.PDI.351	Req	Permitted values for message "Signal Status":	007000 007400 007800																												

ID	Type	Requirement	Appl.
			007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.352	Req	Message Type The message bytes 1-2 shall be set to 0x000C.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.353	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.354	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.395	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400 007800 007900 008000 008200 008400 008800 310900

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.388	Req	Basic aspect type The message byte 63 shall contain the information of the lamp combinations for the basic aspect types, including main, distant and shunting aspects (see [Eu.Doc.37]).	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.355	Req	Extension of basic aspect type The message byte 64 shall contain the information of the lamp combinations for the extension of the basic aspects, such as indication of route to opposite track or route without an overlap (see [Eu.Doc.37]).	007000 007400 007800 007900 008000 008400 008800 310900
Eu.SCI-ILS.PDI.356	Req	Speed indicator The message byte 65 shall contain the information of a speed indicator (see [Eu.Doc.37]).	007000 007400 007800 007900 008000 008400 008800 310900
Eu.SCI-ILS.PDI.357	Req	Speed announcement The message byte 66 shall contain the information of a speed indicator announcement (see [Eu.Doc.37]).	007000 007400 007800 007900 008000 008400 008800 310900
Eu.SCI-ILS.PDI.358	Req	Direction indicator The message byte 67 shall contain the information of a direction indicator (see [Eu.Doc.37]).	007000 007400 007800 007900 008000 008400 008800 310900
Eu.SCI-ILS.PDI.389	Req	Direction announcement The message byte 68 shall contain the information of a direction indicator announcement (see [Eu.Doc.37]).	007000 007400 007800 007900 008000 008400 008800 310900

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.598	Req	Intentionally Dark The message byte 69 shall contain the information of a intentionally dark signal aspect. Permitted values: <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.599	Req	0x01 the commanded signal aspect is indicated in the set luminosity	007000 008000
Eu.SCI-ILS.PDI.600	Req	0x0F the commanded signal aspect is indicated dark	007000 008000
Eu.SCI-ILS.PDI.601	Req	0xFF intentionally dark not applicable	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.753	Req	Specified By National Requirements The message bytes 70 to 78 shall contain national specified requirements. Permitted values for each byte: <div> <div>value</div> <div>meaning</div> <div>-----</div> <div>-----</div> </div>	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.755	Req	0x01..0xFD Specified by national specifications	007000 007900 008400
Eu.SCI-ILS.PDI.754	Req	0xFE No information	007000 007400 007800 007900 008000 008200 008400 008800 310900
Eu.SCI-ILS.PDI.246	Head	3.5.15 Message "TVPS Status"	Default
Eu.SCI-ILS.PDI.369	Info	With this telegram the sender reports the status of a TVPS adjacent to a boundary. This telegram refines the InformationFlow "Msg_TVPS_Status" specified in the requirements specification (ID Eu.ILS.3973).	Default

ID	Type	Requirement	Appl.																
Eu.SCI-ILS.PDI.370	Info	<div>Telegram definition for message "TVPS Status"</div> <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x000D (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Occupancy Status (1 Byte binary)</td></tr><tr><td>64</td><td>Fouling Status (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (1 Byte binary)	01..02	Message Type: 0x000D (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63	Occupancy Status (1 Byte binary)	64	Fouling Status (1 Byte binary)	Default
Byte-Nr.	Content																		
00	Protocol Type: 0x01 (1 Byte binary)																		
01..02	Message Type: 0x000D (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																		
63	Occupancy Status (1 Byte binary)																		
64	Fouling Status (1 Byte binary)																		
Eu.SCI-ILS.PDI.371	Req	Permitted values for message "TVPS Status":	Default																
Eu.SCI-ILS.PDI.372	Req	Message Type The message bytes 1-2 shall be set to 0x000D.	Default																
Eu.SCI-ILS.PDI.373	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Default																
Eu.SCI-ILS.PDI.374	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Default																
Eu.SCI-ILS.PDI.390	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	Default																
Eu.SCI-ILS.PDI.375	Req	Occupancy Status The message byte 63 shall contain the occupancy status. Permitted values: <table><tr><td>value</td><td>meaning</td></tr><tr><td>-----</td><td>-----</td></tr></table>	value	meaning	-----	-----	Default												
value	meaning																		
-----	-----																		
Eu.SCI-ILS.PDI.377	Req	<table><tr><td>0x01</td><td>vacant</td></tr></table>	0x01	vacant	Default														
0x01	vacant																		
Eu.SCI-ILS.PDI.378	Req	<table><tr><td>0x02</td><td>occupied</td></tr></table>	0x02	occupied	Default														
0x02	occupied																		
Eu.SCI-ILS.PDI.380	Req	<table><tr><td>0x03</td><td>disturbed</td></tr></table>	0x03	disturbed	Default														
0x03	disturbed																		
Eu.SCI-ILS.PDI.708	Req	<table><tr><td>0x04</td><td>waiting for a sweeping train after FC-P-A or FC-P command</td></tr></table>	0x04	waiting for a sweeping train after FC-P-A or FC-P command	008400														
0x04	waiting for a sweeping train after FC-P-A or FC-P command																		
Eu.SCI-ILS.PDI.709	Req	<table><tr><td>0x05</td><td>waiting for an acknowledgment after FC-P-A command</td></tr></table>	0x05	waiting for an acknowledgment after FC-P-A command	008400														
0x05	waiting for an acknowledgment after FC-P-A command																		
Eu.SCI-ILS.PDI.710	Req	<table><tr><td>0x06</td><td>sweeping train detected</td></tr></table>	0x06	sweeping train detected	008400														
0x06	sweeping train detected																		
Eu.SCI-ILS.PDI.597	Req	Fouling Status The message byte 64 shall contain the fouling status. Permitted values: <table><tr><td>value</td><td>meaning</td></tr><tr><td>-----</td><td>-----</td></tr></table>	value	meaning	-----	-----	Default												
value	meaning																		
-----	-----																		
Eu.SCI-ILS.PDI.596	Req	<table><tr><td>0x01</td><td>fouling</td></tr></table>	0x01	fouling	007000 008400 310900														
0x01	fouling																		

ID	Type	Requirement	Appl.												
Eu.SCI-ILS.PDI.608	Req	0x02 not fouling	007000 008400 310900												
Eu.SCI-ILS.PDI.607	Req	0xFF fouling status not applicable	Default												
Eu.SCI-ILS.PDI.489	Head	3.5.16 Message "Opposite Main Signal Status"	007000 007800 007900 008800 310900												
Eu.SCI-ILS.PDI.490	Info	With this telegram the sender reports that its station main signals which are facing to the line and boundary indicate the stop aspect. This telegram refines the InformationFlow "Msg_Opposite_Main_Signal_Status" specified in the requirements specification (ID Eu.ILS.3966).	007000 007800 007900 008800 310900												
Eu.SCI-ILS.PDI.491	Info	Telegram definition for message "Opposite Main Signal Status" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x000E (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (1 Byte binary)	01..02	Message Type: 0x000E (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	007000 007800 007900 008800 310900
Byte-Nr.	Content														
00	Protocol Type: 0x01 (1 Byte binary)														
01..02	Message Type: 0x000E (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)														
Eu.SCI-ILS.PDI.492	Req	Permitted values for message "Opposite Main Signal Status":	007000 007800 007900 008800 310900												
Eu.SCI-ILS.PDI.493	Req	Message Type The message bytes 1-2 shall be set to 0x000E.	007000 007800 007900 008800 310900												
Eu.SCI-ILS.PDI.494	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007800 007900 008800 310900												
Eu.SCI-ILS.PDI.495	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007800 007900 008800 310900												

ID	Type	Requirement	Appl.																
Eu.SCI-ILS.PDI.496	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007800 007900 008800 310900																
Eu.SCI-ILS.PDI.499	Head	3.5.17 Command "Route Pretest Request"	007000 007400																
Eu.SCI-ILS.PDI.500	Info	With this telegram the sender requests a pretest of a secondary route. This telegram refines the InformationFlow "Cd_Route_Pretest_Request" specified in the requirements specification (ID Eu.ILS.3956).	007000 007400																
Eu.SCI-ILS.PDI.501	Info	Telegram definition for command "Route Pretest Request" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x000F (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63..82</td><td>Route ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>83</td><td>Route Type (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (1 Byte binary)	01..02	Message Type: 0x000F (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63..82	Route ID (20 Bytes ISO IEC 8859-1:1998)	83	Route Type (1 Byte binary)	007000 007400
Byte-Nr.	Content																		
00	Protocol Type: 0x01 (1 Byte binary)																		
01..02	Message Type: 0x000F (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																		
63..82	Route ID (20 Bytes ISO IEC 8859-1:1998)																		
83	Route Type (1 Byte binary)																		
Eu.SCI-ILS.PDI.502	Req	Permitted values for command "Route Pretest Request":	007000 007400																
Eu.SCI-ILS.PDI.503	Req	Message Type The message bytes 1-2 shall be set to 0x000F.	007000 007400																
Eu.SCI-ILS.PDI.504	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400																
Eu.SCI-ILS.PDI.505	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400																
Eu.SCI-ILS.PDI.506	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400																
Eu.SCI-ILS.PDI.535	Req	Route ID The message bytes 63-82 shall contain the route identifier in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400																
Eu.SCI-ILS.PDI.536	Req	Route Type The message byte 83 shall contain the route type. Permitted values: value meaning ----- -----	007000 007400																

ID	Type	Requirement	Appl.																				
Eu.SCI-ILS.PDI.537	Req	0x01 main route	007000 007400																				
Eu.SCI-ILS.PDI.538	Req	0x02 shunting route	007000 007400																				
Eu.SCI-ILS.PDI.539	Req	0x03 on-sight route	007000 007400																				
Eu.SCI-ILS.PDI.547	Req	0x04 SR train route	007000 007400																				
Eu.SCI-ILS.PDI.548	Req	0x05 special train route	007000 007400																				
Eu.SCI-ILS.PDI.549	Req	0x06 temporary shunting area	007000 007400																				
Eu.SCI-ILS.PDI.507	Head	3.5.18 Message "Route Pretest Status"	007000 007400																				
Eu.SCI-ILS.PDI.508	Info	With this telegram the sender reports the status of a secondary route pretest. This telegram refines the InformationFlow "Msg_Route_Pretest_Status" specified in the requirements specification (ID Eu.ILS.3968).	007000 007400																				
Eu.SCI-ILS.PDI.509	Info	Telegram definition for message "Route Pretest Status" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0010 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63..82</td><td>Route ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>83</td><td>Route Type (1 Byte binary)</td></tr><tr><td>84</td><td>Route Status (1 Byte binary)</td></tr><tr><td>85</td><td>Pretest Response (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (1 Byte binary)	01..02	Message Type: 0x0010 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63..82	Route ID (20 Bytes ISO IEC 8859-1:1998)	83	Route Type (1 Byte binary)	84	Route Status (1 Byte binary)	85	Pretest Response (1 Byte binary)	007000 007400
Byte-Nr.	Content																						
00	Protocol Type: 0x01 (1 Byte binary)																						
01..02	Message Type: 0x0010 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																						
63..82	Route ID (20 Bytes ISO IEC 8859-1:1998)																						
83	Route Type (1 Byte binary)																						
84	Route Status (1 Byte binary)																						
85	Pretest Response (1 Byte binary)																						
Eu.SCI-ILS.PDI.510	Req	Permitted values for message "Route Pretest Status":	007000 007400																				
Eu.SCI-ILS.PDI.511	Req	Message Type The message bytes 1-2 shall be set to 0x0010.	007000 007400																				
Eu.SCI-ILS.PDI.512	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400																				

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.513	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007000 007400
Eu.SCI-ILS.PDI.514	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400
Eu.SCI-ILS.PDI.550	Req	Route ID The message bytes 63-82 shall contain the route identifier in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007000 007400
Eu.SCI-ILS.PDI.551	Req	Route Type The message byte 83 shall contain the route type. Permitted values: value meaning ----- -----	007000 007400
Eu.SCI-ILS.PDI.552	Req	0x01 main route	007000 007400
Eu.SCI-ILS.PDI.553	Req	0x02 shunting route	007000 007400
Eu.SCI-ILS.PDI.554	Req	0x03 on-sight route	007000 007400
Eu.SCI-ILS.PDI.555	Req	0x04 SR train route	007000 007400
Eu.SCI-ILS.PDI.556	Req	0x05 special train route	007000 007400
Eu.SCI-ILS.PDI.557	Req	0x06 temporary shunting area	007000 007400
Eu.SCI-ILS.PDI.572	Req	Route Status The message byte 84 shall contain the information of the route status. Permitted values: value meaning ----- -----	007000 007400
Eu.SCI-ILS.PDI.576	Req	0x01 initiated	007000 007400
Eu.SCI-ILS.PDI.577	Req	0x02 locked	007000 007400
Eu.SCI-ILS.PDI.578	Req	0x03 no route	007000 007400

ID	Type	Requirement	Appl.												
Eu.SCI-ILS.PDI.558	Req	Pretest Response The message byte 85 shall contain the pretest response. Permitted values: value meaning ----- -----	007000 007400												
Eu.SCI-ILS.PDI.559	Req	0x01 possible and vacant	007000 007400												
Eu.SCI-ILS.PDI.560	Req	0x02 possible and occupied	007000 007400												
Eu.SCI-ILS.PDI.561	Req	0x03 queue	007000 007400												
Eu.SCI-ILS.PDI.562	Req	0x04 rejected	007000 007400												
Eu.SCI-ILS.PDI.515	Head	3.5.19 Command "Route Release Inhibition Activation Request"	007400												
Eu.SCI-ILS.PDI.516	Info	With this telegram the sender requests the activation of the inhibited route release. This telegram refines the InformationFlow "Cd_Route_Release_Inhibition_Activation_Request" specified in the requirements specification (ID Eu.ILS.3957).	007400												
Eu.SCI-ILS.PDI.517	Info	Telegram definition for command "Route Release Inhibition Activation Request" <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0011 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	007400
Byte-Nr.	Content														
00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)														
Eu.SCI-ILS.PDI.518	Req	Permitted values for command "Route Release Inhibition Activation Request":	007400												
Eu.SCI-ILS.PDI.519	Req	Message Type The message bytes 1-2 shall be set to 0x0011.	007400												
Eu.SCI-ILS.PDI.520	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007400												
Eu.SCI-ILS.PDI.521	Req	Receiver Identifier The message bytes 23-42 shall contain the identifier of the receiver according to ID SCI-ILS.PDI.59 in ISO IEC 8859-1:1998 format.	007400												
Eu.SCI-ILS.PDI.522	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007400												
Eu.SCI-ILS.PDI.614	Head	3.5.20 Message "Route Release Inhibition Status"	007400												
Eu.SCI-ILS.PDI.615	Info	With this telegram the sender reports the status of the inhibited route release. This telegram refines the InformationFlow "Msg_Route_Release_Inhibition_Status" specified in the requirements specification (ID Eu.ILS.3969).	007400												

ID	Type	Requirement	Appl.														
Eu.SCI-ILS.PDI.622	Info	Telegram definition for message "Route Release Inhibition Status"	007400														
		<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>Route Release Inhibition Status (1 Byte binary)</td></tr></table>		Byte-Nr.	Content	00	Protocol Type: 0x01 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63	Route Release Inhibition Status (1 Byte binary)
		Byte-Nr.		Content													
		00		Protocol Type: 0x01 (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		Boundary ID (20 Bytes ISO IEC 8859-1:1998)													
63	Route Release Inhibition Status (1 Byte binary)																
Eu.SCI-ILS.PDI.623	Req	Permitted values for message "Route Release Inhibition Status":	007400														
Eu.SCI-ILS.PDI.624	Req	Message Type The message bytes 1-2 shall be set to 0x0014.	007400														
Eu.SCI-ILS.PDI.625	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	007400														
Eu.SCI-ILS.PDI.626	Req	Receiver Identifier The message bytes 23-42 shall contain the identifier of the receiver according to ID SCI-ILS.PDI.59 in ISO IEC 8859-1:1998 format.	007400														
Eu.SCI-ILS.PDI.627	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	007400														
Eu.SCI-ILS.PDI.628	Req	Route Release Inhibition Status The message byte 63 shall contain the status of the inhibited route release. Permitted values: <table><tr><td>value</td><td>meaning</td></tr><tr><td>-----</td><td>-----</td></tr></table>	value	meaning	-----	-----	007400										
value	meaning																
-----	-----																
Eu.SCI-ILS.PDI.575	Req	<table><tr><td>0x01</td><td>activated</td></tr></table>	0x01	activated	007400												
0x01	activated																
Eu.SCI-ILS.PDI.652	Req	<table><tr><td>0x02</td><td>deactivated</td></tr></table>	0x02	deactivated	007400												
0x02	deactivated																
Eu.SCI-ILS.PDI.737	Head	3.5.21 Command "Abort Route Cancellation Request"	008400														
Eu.SCI-ILS.PDI.735	Info	With this telegram the sender requests the abortion of a route cancellation. This telegram refines the InformationFlow "Cd_Abort_Route_Cancellation_Request" specified in the requirements specification (ID Eu.ILS.4914).	008400														

ID	Type	Requirement	Appl.																
Eu.SCI-ILS.PDI.736	Info	<div>Telegram definition for command "Abort Route Cancellation Request"</div> <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0016 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63..82</td><td>Route ID (20 Bytes ISO IEC 8859-1:1998)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (1 Byte binary)	01..02	Message Type: 0x0016 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63..82	Route ID (20 Bytes ISO IEC 8859-1:1998)	008400		
Byte-Nr.	Content																		
00	Protocol Type: 0x01 (1 Byte binary)																		
01..02	Message Type: 0x0016 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																		
63..82	Route ID (20 Bytes ISO IEC 8859-1:1998)																		
Eu.SCI-ILS.PDI.738	Req	Permitted values for message "Abort Route Cancellation Request":	008400																
Eu.SCI-ILS.PDI.739	Req	Message Type The message bytes 1-2 shall be set to 0x0016.	008400																
Eu.SCI-ILS.PDI.740	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	008400																
Eu.SCI-ILS.PDI.741	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	008400																
Eu.SCI-ILS.PDI.742	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	008400																
Eu.SCI-ILS.PDI.743	Req	Route ID The message bytes 63-82 shall contain the route identifier in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	008400																
Eu.SCI-ILS.PDI.712	Head	3.5.22 Message "TDP Status"	008400																
Eu.SCI-ILS.PDI.713	Info	With this telegram the sender reports the status of a TDP related to the boundary. This telegram refines the InformationFlow "Msg_TDP_Status" specified in the requirements specification (ID Eu.ILS.4252).	008400																
Eu.SCI-ILS.PDI.714	Info	<div>Telegram definition for message "TDP Status"</div> <table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x01 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0015 (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>Boundary ID (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>63</td><td>State of passing (1 Byte binary)</td></tr><tr><td>64</td><td>Direction of passing (1 Byte binary)</td></tr></table>	Byte-Nr.	Content	00	Protocol Type: 0x01 (1 Byte binary)	01..02	Message Type: 0x0015 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)	63	State of passing (1 Byte binary)	64	Direction of passing (1 Byte binary)	008400
Byte-Nr.	Content																		
00	Protocol Type: 0x01 (1 Byte binary)																		
01..02	Message Type: 0x0015 (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	Boundary ID (20 Bytes ISO IEC 8859-1:1998)																		
63	State of passing (1 Byte binary)																		
64	Direction of passing (1 Byte binary)																		
Eu.SCI-ILS.PDI.715	Req	Permitted values for message "TDP Status":	008400																

ID	Type	Requirement	Appl.
Eu.SCI-ILS.PDI.716	Req	Message Type The message bytes 1-2 shall be set to 0x0015.	008400
Eu.SCI-ILS.PDI.717	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the sender according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	008400
Eu.SCI-ILS.PDI.718	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the receiver according to ID SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	008400
Eu.SCI-ILS.PDI.719	Req	Boundary ID The message bytes 43-62 shall contain the identifier of the boundary in ISO IEC 8859-1:1998 format as defined by national requirements according to section 3.3.	008400
Eu.SCI-ILS.PDI.720	Req	State of passing The message byte 63 shall contain the state of passing. The following values are permitted: value meaning ----- -----	008400
Eu.SCI-ILS.PDI.721	Req	0x01 not passed	008400
Eu.SCI-ILS.PDI.722	Req	0x02 passed	008400
Eu.SCI-ILS.PDI.723	Req	0x03 disturbed	008400
Eu.SCI-ILS.PDI.727	Req	Direction of passing The message byte 64 shall contain the direction of passing status. The following values are permitted: value meaning ----- -----	008400
Eu.SCI-ILS.PDI.728	Req	0x01 reference direction	008400
Eu.SCI-ILS.PDI.729	Req	0x02 against reference direction	008400
Eu.SCI-ILS.PDI.730	Req	0x03 without indicated direction	008400