



**EULYNX**

**EULYNX Initiative**



**Europe's Rail Joint Undertaking**

## **Interface specification SCI Generic**

Document number: Eu.Doc.93

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ID	Type	Requirement
Eu.SCI-XX.PDI.6	Head	<b>1 Introduction</b>
Eu.SCI-XX.PDI.7	Head	<b>1.1 Release information</b>
Eu.SCI-XX.PDI.8	Info	[Eu.Doc.93] Interface specification SCI Generic CENELEC Phase: 5 Version: 3.2 (0.A) Approval date: 15.06.2023
Eu.SCI-XX.PDI.9	Info	<b>Version history</b>
Eu.SCI-XX.PDI.214	Info	version number: 3.0 (0.A) date: 16.05.2022 author: Filip Giering review: CCB changes: EUAR-508, EUAR-511, EUAR-513, EUAR-526
Eu.SCI-XX.PDI.216	Info	version number: 3.1 (0.A) date: 31.03.2023 author: Filip Giering review: changes: EUAR-558, EUAR-564, EUAR-578
Eu.SCI-XX.PDI.217	Info	version number: 3.2 (0.A) date: 28.06.2023 author: Filip Giering review: TACS Mirror Group changes: EUAR-586, EUAR-587, EUAR-589, EUAR-594, EUAR-612, EUAR-613
Eu.SCI-XX.PDI.11	Head	<b>1.2 Impressum</b>
Eu.SCI-XX.PDI.12	Info	Publishers:  <b>Europe's Rail Joint Undertaking</b> <a href="https://rail-research.europa.eu/">https://rail-research.europa.eu/</a>  <b>EULYNX Initiative</b> A full list of the EULYNX Partners can be found on <a href="http://www.eulynx.eu/index.php/members">www.eulynx.eu/index.php/members</a>

ID	Type	Requirement
Eu.SCI-XX.PDI.13	Info	Responsible for this document: EU-Rail System Pillar Trackside Assets Control and Supervision domain
Eu.SCI-XX.PDI.14	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.
Eu.SCI-XX.PDI.15	Head	<b>1.3 Purpose</b>
Eu.SCI-XX.PDI.16	Info	This document specifies the application layer of the standardised interface for safe communication between the interfacing partners.
Eu.SCI-XX.PDI.17	Info	This application layer is designated as SCI-XX.PDI.
Eu.SCI-XX.PDI.18	Info	This document contains the general requirements for communication and the technical specification (e.g. telegrams).
Eu.SCI-XX.PDI.19	Info	This specification does not define the detailed behaviour of the interfacing partners, nor the situations in which the defined telegrams are sent. This behaviour is the subject of the individual system specifications.
Eu.SCI-XX.PDI.21	Info	This document is intended for the following users: <ul style="list-style-type: none"> <li>• safety authorities</li> <li>• infrastructure managers</li> <li>• safety assessors</li> <li>• signalling system suppliers</li> <li>• validators</li> </ul>
Eu.SCI-XX.PDI.219	Info	This document is applicable for both the EU-Rail System Pillar target architecture and the EULYNX architecture. The document is delivered as a single specification fitting both the System Pillar documentation sets and the EULYNX documentation sets. EU-Rail System Pillar is the technical authority for this document.
Eu.SCI-XX.PDI.22	Head	<b>1.4 Applicable standards and regulations</b>
Eu.SCI-XX.PDI.23	Info	The applicable standards and regulations used in EULYNX are listed in the EULYNX Reference Document List [Eu.Doc.12].
Eu.SCI-XX.PDI.24	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" is stated.
Eu.SCI-XX.PDI.25	Head	<b>1.5 Applicable documents</b>
Eu.SCI-XX.PDI.26	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].

ID	Type	Requirement
Eu.SCI-XX.PDI.27	Head	<b>1.6 Appendices</b>
Eu.SCI-XX.PDI.28	Info	<i>- intentionally left blank -</i>
Eu.SCI-XX.PDI.29	Head	<b>1.7 Terms and abbreviations</b>
Eu.SCI-XX.PDI.30	Info	The terms and abbreviations are listed in the EULYNX Glossary [Eu.Doc.9].
Eu.SCI-XX.PDI.31	Head	<b>1.8 Variability management</b>
Eu.SCI-XX.PDI.32	Info	This document describes harmonised requirements. Variability management is not applicable.
Eu.SCI-XX.PDI.33	Head	<b>1.9 Definition of object types</b>
Eu.SCI-XX.PDI.34	Info	The following definition for object types is applied in this document:
Eu.SCI-XX.PDI.35	Info	<ul style="list-style-type: none"> <li>• "Req" - This denotes a mandatory requirement.</li> </ul>
Eu.SCI-XX.PDI.36	Info	<ul style="list-style-type: none"> <li>• "Info" - This denotes additional information to help understand the specification. These objects do not specify any additional requirements.</li> </ul>
Eu.SCI-XX.PDI.37	Info	<ul style="list-style-type: none"> <li>• "Head" - This denotes chapter headings.</li> </ul>
Eu.SCI-XX.PDI.38	Head	<b>2 General requirements</b>
Eu.SCI-XX.PDI.220	Req	All references to Eu.Doc.16 refer to EULYNX System architecture specification version 2.2 (0.A)
Eu.SCI-XX.PDI.215	Req	All references to Eu.Doc.119 refer to Generic interface and subsystem requirements for SCI version 1.0 (3.A).
Eu.SCI-XX.PDI.211	Req	All references to Eu.Doc.92 refer to Interface Definition SCI version 4.2 (0.A).
Eu.SCI-XX.PDI.39	Head	<b>2.1 Version handling</b>
Eu.SCI-XX.PDI.40	Info	The communication partners shall check for a matching PDI-Version, whenever they attempt to establish the PDI connection.
Eu.SCI-XX.PDI.41	Info	Establishing the PDI connection is permitted only if the PDI-Versions of both communication partners are equal.
Eu.SCI-XX.PDI.42	Info	The PDI-Version 0xXX is defined in each baseline of the Interface specifications of SCI-XX.
Eu.SCI-XX.PDI.154	Info	The telegrams and other requirements defined in this document are valid for any PDI-Version of SCI-XX, as defined in the Interface specifications of SCI-XX.

ID	Type	Requirement												
Eu.SCI-XX.PDI.43	Info	The PDI-Version is not directly corresponding to the baseline of the Interface specifications of SCI-XX. A PDI-Version change will not be required when the document version is updated due to minor changes without impact on PDI functionality (e.g. changes in terminology).												
Eu.SCI-XX.PDI.44	Head	<b>2.2 Communication requirements</b>												
Eu.SCI-XX.PDI.130	Req	A communication partner shall not be permitted to repeat the sending of a command or a message which is identical in its content to a command or message already sent before, as specified in Eu.SAS.119 see [Eu.Doc.16].												
Eu.SCI-XX.PDI.48	Req	All transmitted telegrams shall comply with the telegram definition, in particular the sender of the telegram may only send the specified number of bytes and may not use any telegram definitions not specified here.												
Eu.SCI-XX.PDI.212	Head	<b>2.3 Interface definition</b>												
Eu.SCI-XX.PDI.213	Info	The definition of the interface SCI-XX is described in Eu.Doc.92.												
Eu.SCI-XX.PDI.49	Head	<b>3 Telegrams SCI-XX.PDI</b>												
Eu.SCI-XX.PDI.50	Info	This chapter defines the SCI-XX.PDI telegrams.												
Eu.SCI-XX.PDI.51	Head	<b>3.1 Telegram structure</b>												
Eu.SCI-XX.PDI.52	Info	SCI-XX.PDI telegram structure <table border="1" data-bbox="479 890 1568 1217"> <thead> <tr> <th data-bbox="479 890 645 943">Byte-Nr.</th> <th data-bbox="645 890 1568 943">Content</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 943 645 995">00</td> <td data-bbox="645 943 1568 995">Specific Protocol Type (1 Byte binary)</td> </tr> <tr> <td data-bbox="479 995 645 1048">01..02</td> <td data-bbox="645 995 1568 1048">Message Type (2 Bytes binary)</td> </tr> <tr> <td data-bbox="479 1048 645 1101">03..22</td> <td data-bbox="645 1048 1568 1101">Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="479 1101 645 1153">23..42</td> <td data-bbox="645 1101 1568 1153">Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="479 1153 645 1217">43..1023</td> <td data-bbox="645 1153 1568 1217">Payload (max. 981 Bytes)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Specific Protocol Type (1 Byte binary)	01..02	Message Type (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..1023	Payload (max. 981 Bytes)
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23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)													
43..1023	Payload (max. 981 Bytes)													
Eu.SCI-XX.PDI.54	Info	<b>Protocol Type</b> Protocol Type defines the applicability of the telegram to a specific interface.												
Eu.SCI-XX.PDI.53	Req	The value of byte 0 in SCI-XX.PDI shall be as followed: value                    meaning -----                    -----												

ID	Type	Requirement
		0x01      Electronic Interlocking - Adjacent Interlocking System 0x20      Electronic Interlocking - Train Detection System 0x30      Electronic Interlocking - Light Signal 0x40      Electronic Interlocking - Point 0x50      Electronic Interlocking - Radio Block Centre 0x60      Electronic Interlocking - Subsystem Level Crossing 0x70      Electronic Interlocking - Traffic Control System 0x90      Electronic Interlocking - Generic IO 0xC0      Electronic Interlocking - External Level Crossing System
Eu.SCI-XX.PDI.55	Info	<b>Message Type</b> The identification of a telegram of a protocol type is defined by message type.
Eu.SCI-XX.PDI.56	Info	<b>Sender Identifier</b> Identifier of the sender as in chapter 3.2.
Eu.SCI-XX.PDI.57	Info	<b>Receiver Identifier</b> Identifier of the receiver as in chapter 3.2.
Eu.SCI-XX.PDI.58	Info	<b>Payload</b> Payload contains the information objects to be exchanged among communication partners.
Eu.SCI-XX.PDI.59	Head	<b>3.2 Sender and Receiver Identifier</b>
Eu.SCI-XX.PDI.60	Req	All communication partners at the SCI-XX interface shall be identified either by an operational or technical identifier. For each message type it is specified, which identifier is to be used. The identifiers shall be structured according to Eu.SAS.1764 see [Eu.Doc.16].
Eu.SCI-XX.PDI.61	Req	In case of an operational identifier, the designator given by configuration shall be used.
Eu.SCI-XX.PDI.62	Req	In case of a technical identifier, the technical identifier (SubS_ID) given by configuration shall be used.
Eu.SCI-XX.PDI.65	Head	<b>3.3 Message and command type overview</b>
Eu.SCI-XX.PDI.66	Info	The following table shows permitted message types for the SCI-XX.PDI.



ID	Type	Requirement		
		<b>Message Type</b>	<b>Value</b>	<b>Purpose</b>
		<i>command</i> PDI-Version check	0x0024	Request to check PDI-Version
		<i>message</i> PDI-Version check	0x0025	Answer to „PDI-Version check“ request
		<i>command</i> Initialisation Request	0x0021	Request for status information
		<i>message</i> Start Initialisation	0x0022	Beginning of status message transmission
		<i>message</i> Status Report Completed	0x0026	Status message transmission of one partner is completed
		<i>message</i> Initialisation Completed	0x0023	Status message transmission completed
		<i>command</i> Close PDI	0x0027	Request to close PDI connection
		<i>command</i> Release PDI for Maintenance	0x0028	Request to release PDI connection for Maintenance
		<i>message</i> PDI Available	0x0029	Status message transmission that PDI connection is available
		<i>message</i> PDI Not Available	0x002A	Status message transmission that PDI connection is not available
		<i>message</i> Reset PDI	0x002B	Status message transmission to reset PDI connection
Eu.SCI-XX.PDI.67	Head	<b>3.4 Telegram definitions</b>		
Eu.SCI-XX.PDI.68	Info	In this chapter, telegrams for SCI-XX.PDI are defined.		
Eu.SCI-XX.PDI.69	Head	<b>3.4.1 Command "PDI-Version check"</b>		

ID	Type	Requirement																		
Eu.SCI-XX.PDI.70	Info	The Sender of this telegram requests the Receiver to check PDI-Version. This telegram refines the InformationFlow "Cd_PDI_Version_Check" specified in the requirements specification (ID Eu.Gen-SCI.481).																		
Eu.SCI-XX.PDI.71	Info	Telegram definition for command "PDI-Version check" <table border="1" data-bbox="479 320 1429 608"> <thead> <tr> <th data-bbox="479 320 645 363">Byte-Nr.</th> <th data-bbox="645 320 1429 363">Content</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 363 645 406">00</td> <td data-bbox="645 363 1429 406">Specific Protocol Type (1 Byte binary)</td> </tr> <tr> <td data-bbox="479 406 645 450">01..02</td> <td data-bbox="645 406 1429 450">Message Type: 0x0024 (2 Bytes binary)</td> </tr> <tr> <td data-bbox="479 450 645 493">03..22</td> <td data-bbox="645 450 1429 493">Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="479 493 645 536">23..42</td> <td data-bbox="645 493 1429 536">Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="479 536 645 608">43</td> <td data-bbox="645 536 1429 608">PDI-Version of Sender (1 Byte binary)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Specific Protocol Type (1 Byte binary)	01..02	Message Type: 0x0024 (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	PDI-Version of Sender (1 Byte binary)						
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43	PDI-Version of Sender (1 Byte binary)																			
Eu.SCI-XX.PDI.72	Req	Permitted values for command "PDI-Version check":																		
Eu.SCI-XX.PDI.73	Req	<b>Message Type</b> The message bytes 1 and 2 shall be set to 0x0024.																		
Eu.SCI-XX.PDI.124	Req	Interfacing partners for command "PDI-Version check" <table border="1" data-bbox="479 871 1529 1302"> <thead> <tr> <th data-bbox="479 871 1003 914">Sender</th> <th data-bbox="1003 871 1529 914">Receiver</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 914 1003 957">Traffic Control System</td> <td data-bbox="1003 914 1529 957">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 957 1003 1000">Radio Block Centre</td> <td data-bbox="1003 957 1529 1000">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 1000 1003 1043">Subsystem – Electronic Interlocking</td> <td data-bbox="1003 1000 1529 1043">Adjacent Interlocking System</td> </tr> <tr> <td data-bbox="479 1043 1003 1086">Adjacent Interlocking System</td> <td data-bbox="1003 1043 1529 1086">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 1086 1003 1129">Centralised ETCS L1 Controller</td> <td data-bbox="1003 1086 1529 1129">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 1129 1003 1173">Trackworker Safety System</td> <td data-bbox="1003 1129 1529 1173">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 1173 1003 1216">Subsystem – Electronic Interlocking</td> <td data-bbox="1003 1173 1529 1216">External Level Crossing System</td> </tr> <tr> <td data-bbox="479 1216 1003 1302">Subsystem – Electronic Interlocking</td> <td data-bbox="1003 1216 1529 1302">EULYNX field element subsystem</td> </tr> </tbody> </table>	Sender	Receiver	Traffic Control System	Subsystem – Electronic Interlocking	Radio Block Centre	Subsystem – Electronic Interlocking	Subsystem – Electronic Interlocking	Adjacent Interlocking System	Adjacent Interlocking System	Subsystem – Electronic Interlocking	Centralised ETCS L1 Controller	Subsystem – Electronic Interlocking	Trackworker Safety System	Subsystem – Electronic Interlocking	Subsystem – Electronic Interlocking	External Level Crossing System	Subsystem – Electronic Interlocking	EULYNX field element subsystem
Sender	Receiver																			
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Subsystem – Electronic Interlocking	External Level Crossing System																			
Subsystem – Electronic Interlocking	EULYNX field element subsystem																			
Eu.SCI-XX.PDI.74	Req	<b>Sender Identifier</b> The message bytes 3-22 shall contain the technical identifier of the Sender according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.																		

ID	Type	Requirement																		
Eu.SCI-XX.PDI.75	Req	<p><b>Receiver Identifier</b> The message bytes 23-42 shall contain the technical identifier of the Receiver according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.</p>																		
Eu.SCI-XX.PDI.76	Req	<p><b>PDI-Version of Sender</b> The message byte 43 shall contain the interface version, configured to the Sender. Values from 0x01 to 0xFE are valid.</p>																		
Eu.SCI-XX.PDI.77	Head	<p><b>3.4.2 Message "PDI-Version check"</b></p>																		
Eu.SCI-XX.PDI.78	Info	<p>With this telegram the Sender tells the Receiver the result of the version check. This telegram refines the InformationFlow "Msg_PDI_Version_Check" specified in the requirements specification (ID Eu.Gen-SCI.486).</p>																		
Eu.SCI-XX.PDI.79	Info	<p>Telegram definition for message "PDI-Version check"</p> <table border="1" data-bbox="488 568 1435 1002"> <thead> <tr> <th data-bbox="488 568 654 616">Byte-Nr.</th> <th data-bbox="654 568 1435 616">Content</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 616 654 663">00</td> <td data-bbox="654 616 1435 663">Specific Protocol Type (1 Byte binary)</td> </tr> <tr> <td data-bbox="488 663 654 711">01..02</td> <td data-bbox="654 663 1435 711">Message Type: 0x0025 (2 Bytes binary)</td> </tr> <tr> <td data-bbox="488 711 654 759">03..22</td> <td data-bbox="654 711 1435 759">Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="488 759 654 807">23..42</td> <td data-bbox="654 759 1435 807">Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="488 807 654 855">43</td> <td data-bbox="654 807 1435 855">Result PDI-Version check (1 Byte binary)</td> </tr> <tr> <td data-bbox="488 855 654 903">44</td> <td data-bbox="654 855 1435 903">Sender PDI-Version (1 Byte binary)</td> </tr> <tr> <td data-bbox="488 903 654 951">45</td> <td data-bbox="654 903 1435 951">Checksum length (1 Byte binary)</td> </tr> <tr> <td data-bbox="488 951 654 999">46..46+n-1</td> <td data-bbox="654 951 1435 999">Checksum data (n Bytes binary)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Specific Protocol Type (1 Byte binary)	01..02	Message Type: 0x0025 (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	Result PDI-Version check (1 Byte binary)	44	Sender PDI-Version (1 Byte binary)	45	Checksum length (1 Byte binary)	46..46+n-1	Checksum data (n Bytes binary)
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46..46+n-1	Checksum data (n Bytes binary)																			
Eu.SCI-XX.PDI.80	Req	<p>Permitted values for message "PDI-Version check":</p>																		
Eu.SCI-XX.PDI.81	Req	<p><b>Message Type</b> The message bytes 1 and 2 shall be set to 0x0025.</p>																		
Eu.SCI-XX.PDI.125	Req	<p>Interfacing partners for message "PDI-Version check"</p>																		

ID	Type	Requirement																			
		<table border="1"> <thead> <tr> <th data-bbox="479 161 1010 209">Sender</th> <th data-bbox="1010 161 1536 209">Receiver</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 209 1010 256">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 209 1536 256">Traffic Control System</td> </tr> <tr> <td data-bbox="479 256 1010 304">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 256 1536 304">Radio Block Centre</td> </tr> <tr> <td data-bbox="479 304 1010 352">Adjacent Interlocking System</td> <td data-bbox="1010 304 1536 352">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 352 1010 400">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 352 1536 400">Adjacent Interlocking System</td> </tr> <tr> <td data-bbox="479 400 1010 448">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 400 1536 448">Centralised ETCS L1 Controller</td> </tr> <tr> <td data-bbox="479 448 1010 496">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 448 1536 496">Trackworker Safety System</td> </tr> <tr> <td data-bbox="479 496 1010 544">External Level Crossing System</td> <td data-bbox="1010 496 1536 544">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 544 1010 592">EULYNX field element subsystem</td> <td data-bbox="1010 544 1536 592">Subsystem – Electronic Interlocking</td> </tr> </tbody> </table>		Sender	Receiver	Subsystem – Electronic Interlocking	Traffic Control System	Subsystem – Electronic Interlocking	Radio Block Centre	Adjacent Interlocking System	Subsystem – Electronic Interlocking	Subsystem – Electronic Interlocking	Adjacent Interlocking System	Subsystem – Electronic Interlocking	Centralised ETCS L1 Controller	Subsystem – Electronic Interlocking	Trackworker Safety System	External Level Crossing System	Subsystem – Electronic Interlocking	EULYNX field element subsystem	Subsystem – Electronic Interlocking
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External Level Crossing System	Subsystem – Electronic Interlocking																				
EULYNX field element subsystem	Subsystem – Electronic Interlocking																				
Eu.SCI-XX.PDI.82	Req	<b>Sender Identifier</b> The message bytes 3-22 shall contain the technical identifier of the Sender according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.																			
Eu.SCI-XX.PDI.83	Req	<b>Receiver Identifier</b> The message bytes 23-42 shall contain the technical identifier of the Receiver according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.																			
Eu.SCI-XX.PDI.84	Req	<b>Result PDI-Version check</b> The message byte 43 shall contain the result of version matching. Permitted values:  <table> <thead> <tr> <th data-bbox="479 991 667 1015">value</th> <th data-bbox="667 991 819 1015">meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 1023 667 1038">-----</td> <td data-bbox="667 1023 819 1038">-----</td> </tr> </tbody> </table>		value	meaning	-----	-----														
value	meaning																				
-----	-----																				
Eu.SCI-XX.PDI.86	Req	0x01	PDI-Versions from Receiver and Sender do not match.																		
Eu.SCI-XX.PDI.87	Req	0x02	PDI-Versions from Receiver and Sender do match.																		
Eu.SCI-XX.PDI.88	Req	<b>Sender PDI-Version</b> The message byte 44 shall contain the PDI-Version of the Sender. Permitted values:  <table> <thead> <tr> <th data-bbox="479 1270 667 1294">value</th> <th data-bbox="667 1270 819 1294">meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 1302 667 1318">-----</td> <td data-bbox="667 1302 819 1318">-----</td> </tr> </tbody> </table>		value	meaning	-----	-----														
value	meaning																				
-----	-----																				
Eu.SCI-XX.PDI.90	Req	0x01..0xFE	PDI-Version configured in the Sender.																		

ID	Type	Requirement										
Eu.SCI-XX.PDI.91	Req	<b>Checksum length</b> Byte 45 contains the amount n of following bytes, used for checksum information.										
Eu.SCI-XX.PDI.92	Req	If byte 43 is set to 0x01, byte 45 shall be set to zero.										
Eu.SCI-XX.PDI.93	Req	<b>Checksum data</b> The bytes 46 ... 46+n-1 shall contain checksum information in binary form, least significant byte first.										
Eu.SCI-XX.PDI.94	Req	The bytes 46 ... 46+n-1 shall not be allocated, if PDI-Version from Receiver and Sender does not match.										
Eu.SCI-XX.PDI.95	Head	<b>3.4.3 Command "Initialisation Request"</b>										
Eu.SCI-XX.PDI.96	Info	With this telegram the Sender requests status information from the Receiver. This telegram refines the InformationFlow "Cd_Initialisation_Request" specified in the requirements specification (ID Eu.Gen-SCI.480).										
Eu.SCI-XX.PDI.97	Info	Telegram definition for command "Initialisation Request" <table border="1" data-bbox="479 687 1429 930"> <thead> <tr> <th data-bbox="479 687 645 735">Byte-Nr.</th> <th data-bbox="645 687 1429 735">Content</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 743 645 783">00</td> <td data-bbox="645 743 1429 783">Specific Protocol Type (1 Byte binary)</td> </tr> <tr> <td data-bbox="479 791 645 831">01..02</td> <td data-bbox="645 791 1429 831">Message Type: 0x0021 (2 Bytes binary)</td> </tr> <tr> <td data-bbox="479 839 645 879">03..22</td> <td data-bbox="645 839 1429 879">Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="479 887 645 927">23..42</td> <td data-bbox="645 887 1429 927">Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Specific Protocol Type (1 Byte binary)	01..02	Message Type: 0x0021 (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)
Byte-Nr.	Content											
00	Specific Protocol Type (1 Byte binary)											
01..02	Message Type: 0x0021 (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)											
Eu.SCI-XX.PDI.98	Req	Permitted values for command "Initialisation Request":										
Eu.SCI-XX.PDI.99	Req	<b>Message Type</b> The message bytes 1 and 2 shall be set to 0x0021.										
Eu.SCI-XX.PDI.126	Req	Interfacing partners for command "Initialisation Request"										

ID	Type	Requirement																			
		<table border="1"> <thead> <tr> <th data-bbox="479 161 1003 209">Sender</th> <th data-bbox="1003 161 1529 209">Receiver</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 209 1003 256">Subsystem – Electronic Interlocking</td> <td data-bbox="1003 209 1529 256">Adjacent Interlocking System</td> </tr> <tr> <td data-bbox="479 256 1003 304">Adjacent Interlocking System</td> <td data-bbox="1003 256 1529 304">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 304 1003 352">Traffic Control System</td> <td data-bbox="1003 304 1529 352">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 352 1003 400">Radio Block Centre</td> <td data-bbox="1003 352 1529 400">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 400 1003 448">Centralised ETCS L1 Controller</td> <td data-bbox="1003 400 1529 448">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 448 1003 496">Trackworker Safety System</td> <td data-bbox="1003 448 1529 496">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 496 1003 544">Subsystem – Electronic Interlocking</td> <td data-bbox="1003 496 1529 544">External Level Crossing System</td> </tr> <tr> <td data-bbox="479 544 1003 592">Subsystem – Electronic Interlocking</td> <td data-bbox="1003 544 1529 592">EULYNX field element subsystem</td> </tr> </tbody> </table>		Sender	Receiver	Subsystem – Electronic Interlocking	Adjacent Interlocking System	Adjacent Interlocking System	Subsystem – Electronic Interlocking	Traffic Control System	Subsystem – Electronic Interlocking	Radio Block Centre	Subsystem – Electronic Interlocking	Centralised ETCS L1 Controller	Subsystem – Electronic Interlocking	Trackworker Safety System	Subsystem – Electronic Interlocking	Subsystem – Electronic Interlocking	External Level Crossing System	Subsystem – Electronic Interlocking	EULYNX field element subsystem
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Trackworker Safety System	Subsystem – Electronic Interlocking																				
Subsystem – Electronic Interlocking	External Level Crossing System																				
Subsystem – Electronic Interlocking	EULYNX field element subsystem																				
Eu.SCI-XX.PDI.100	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Sender according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.																			
Eu.SCI-XX.PDI.101	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Receiver according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.																			
Eu.SCI-XX.PDI.102	Head	<b>3.4.4 Message "Start Initialisation"</b>																			
Eu.SCI-XX.PDI.103	Info	With this telegram the Sender announces the beginning of status message transmission to the Receiver. This telegram refines the InformationFlow "Msg_Start_Initialisation" specified in the requirements specification (ID Eu.Gen-SCI.488).																			
Eu.SCI-XX.PDI.104	Info	Telegram definition for message "Start Initialisation" <table border="1" data-bbox="479 1110 1429 1350"> <thead> <tr> <th data-bbox="479 1110 645 1158">Byte-Nr.</th> <th data-bbox="645 1110 1429 1158">Content</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 1158 645 1206">00</td> <td data-bbox="645 1158 1429 1206">Specific Protocol Type (1 Byte binary)</td> </tr> <tr> <td data-bbox="479 1206 645 1254">01..02</td> <td data-bbox="645 1206 1429 1254">Message Type: 0x0022 (2 Bytes binary)</td> </tr> <tr> <td data-bbox="479 1254 645 1302">03..22</td> <td data-bbox="645 1254 1429 1302">Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="479 1302 645 1350">23..42</td> <td data-bbox="645 1302 1429 1350">Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> </tbody> </table>		Byte-Nr.	Content	00	Specific Protocol Type (1 Byte binary)	01..02	Message Type: 0x0022 (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)								
Byte-Nr.	Content																				
00	Specific Protocol Type (1 Byte binary)																				
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03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																				
23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																				
Eu.SCI-XX.PDI.105	Req	Permitted values for message "Start Initialisation":																			

ID	Type	Requirement																		
Eu.SCI-XX.PDI.106	Req	<p><b>Message Type</b> The message bytes 1-2 shall be set to 0x0022.</p>																		
Eu.SCI-XX.PDI.127	Req	<p>Interfacing partners for message "Start Initialisation"</p> <table border="1" data-bbox="479 316 1536 751"> <thead> <tr> <th data-bbox="479 316 1010 363">Sender</th> <th data-bbox="1010 316 1536 363">Receiver</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 363 1010 411">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 363 1536 411">Traffic Control System</td> </tr> <tr> <td data-bbox="479 411 1010 459">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 411 1536 459">Radio Block Centre</td> </tr> <tr> <td data-bbox="479 459 1010 507">Adjacent Interlocking System</td> <td data-bbox="1010 459 1536 507">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 507 1010 555">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 507 1536 555">Adjacent Interlocking System</td> </tr> <tr> <td data-bbox="479 555 1010 603">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 555 1536 603">Centralised ETCS L1 Controller</td> </tr> <tr> <td data-bbox="479 603 1010 651">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 603 1536 651">Trackworker Safety System</td> </tr> <tr> <td data-bbox="479 651 1010 699">External Level Crossing System</td> <td data-bbox="1010 651 1536 699">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 699 1010 751">EULYNX field element subsystem</td> <td data-bbox="1010 699 1536 751">Subsystem – Electronic Interlocking</td> </tr> </tbody> </table>	Sender	Receiver	Subsystem – Electronic Interlocking	Traffic Control System	Subsystem – Electronic Interlocking	Radio Block Centre	Adjacent Interlocking System	Subsystem – Electronic Interlocking	Subsystem – Electronic Interlocking	Adjacent Interlocking System	Subsystem – Electronic Interlocking	Centralised ETCS L1 Controller	Subsystem – Electronic Interlocking	Trackworker Safety System	External Level Crossing System	Subsystem – Electronic Interlocking	EULYNX field element subsystem	Subsystem – Electronic Interlocking
Sender	Receiver																			
Subsystem – Electronic Interlocking	Traffic Control System																			
Subsystem – Electronic Interlocking	Radio Block Centre																			
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Subsystem – Electronic Interlocking	Adjacent Interlocking System																			
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Subsystem – Electronic Interlocking	Trackworker Safety System																			
External Level Crossing System	Subsystem – Electronic Interlocking																			
EULYNX field element subsystem	Subsystem – Electronic Interlocking																			
Eu.SCI-XX.PDI.107	Req	<p><b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Sender according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.</p>																		
Eu.SCI-XX.PDI.108	Req	<p><b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Receiver according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.</p>																		
Eu.SCI-XX.PDI.135	Head	<p><b>3.4.5 Message "Status Report Completed"</b></p>																		
Eu.SCI-XX.PDI.136	Info	<p>With this telegram the Sender announces, that status message transmission of one partner is now completed. This telegram refines the InformationFlow "Msg_Status_Report_Completed" specified in the requirements specification (ID Eu.Gen-SCI.489).</p>																		

ID	Type	Requirement																								
Eu.SCI-XX.PDI.137	Info	Telegram definition for message "Status Report Completed" <table border="1" data-bbox="479 225 1429 467"> <thead> <tr> <th data-bbox="479 225 645 272">Byte-Nr.</th> <th data-bbox="645 225 1429 272">Content</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 272 645 320">00</td> <td data-bbox="645 272 1429 320">Specific Protocol Type (1 Byte binary)</td> </tr> <tr> <td data-bbox="479 320 645 368">01..02</td> <td data-bbox="645 320 1429 368">Message Type: 0x0026 (2 Bytes binary)</td> </tr> <tr> <td data-bbox="479 368 645 416">03..22</td> <td data-bbox="645 368 1429 416">Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="479 416 645 467">23..42</td> <td data-bbox="645 416 1429 467">Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Specific Protocol Type (1 Byte binary)	01..02	Message Type: 0x0026 (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)														
Byte-Nr.	Content																									
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23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)																									
Eu.SCI-XX.PDI.138	Req	Permitted values for message "Status Report Completed":																								
Eu.SCI-XX.PDI.139	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0026.																								
Eu.SCI-XX.PDI.140	Req	Interfacing partners for message "Status Report Completed" <table border="1" data-bbox="479 730 1536 1310"> <thead> <tr> <th data-bbox="479 730 1010 778">Sender</th> <th data-bbox="1010 730 1536 778">Receiver</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 778 1010 826">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 778 1536 826">Traffic Control System</td> </tr> <tr> <td data-bbox="479 826 1010 874">Traffic Control System</td> <td data-bbox="1010 826 1536 874">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 874 1010 922">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 874 1536 922">Radio Block Centre</td> </tr> <tr> <td data-bbox="479 922 1010 970">Radio Block Centre</td> <td data-bbox="1010 922 1536 970">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 970 1010 1018">Adjacent Interlocking System</td> <td data-bbox="1010 970 1536 1018">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 1018 1010 1066">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 1018 1536 1066">Adjacent Interlocking System</td> </tr> <tr> <td data-bbox="479 1066 1010 1114">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 1066 1536 1114">Centralised ETCS L1 Controller</td> </tr> <tr> <td data-bbox="479 1114 1010 1161">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 1114 1536 1161">Trackworker Safety System</td> </tr> <tr> <td data-bbox="479 1161 1010 1209">Trackworker Safety System</td> <td data-bbox="1010 1161 1536 1209">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 1209 1010 1257">External Level Crossing System</td> <td data-bbox="1010 1209 1536 1257">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 1257 1010 1310">EULYNX field element subsystem</td> <td data-bbox="1010 1257 1536 1310">Subsystem – Electronic Interlocking</td> </tr> </tbody> </table>	Sender	Receiver	Subsystem – Electronic Interlocking	Traffic Control System	Traffic Control System	Subsystem – Electronic Interlocking	Subsystem – Electronic Interlocking	Radio Block Centre	Radio Block Centre	Subsystem – Electronic Interlocking	Adjacent Interlocking System	Subsystem – Electronic Interlocking	Subsystem – Electronic Interlocking	Adjacent Interlocking System	Subsystem – Electronic Interlocking	Centralised ETCS L1 Controller	Subsystem – Electronic Interlocking	Trackworker Safety System	Trackworker Safety System	Subsystem – Electronic Interlocking	External Level Crossing System	Subsystem – Electronic Interlocking	EULYNX field element subsystem	Subsystem – Electronic Interlocking
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Trackworker Safety System	Subsystem – Electronic Interlocking																									
External Level Crossing System	Subsystem – Electronic Interlocking																									
EULYNX field element subsystem	Subsystem – Electronic Interlocking																									
Eu.SCI-XX.PDI.141	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Sender according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.																								



ID	Type	Requirement																		
Eu.SCI-XX.PDI.142	Req	<p><b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Receiver according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.</p>																		
Eu.SCI-XX.PDI.109	Head	<p><b>3.4.6 Message "Initialisation Completed"</b></p>																		
Eu.SCI-XX.PDI.110	Info	<p>With this telegram the Sender announces, that status message transmission is now completed. This telegram refines the InformationFlow "Msg_Initialisation_Completed" specified in the requirements specification (ID Eu.Gen-SCI.483).</p>																		
Eu.SCI-XX.PDI.111	Info	<p>Telegram definition for message "Initialisation Completed"</p> <table border="1" data-bbox="479 507 1429 746"> <thead> <tr> <th data-bbox="479 507 645 555">Byte-Nr.</th> <th data-bbox="645 507 1429 555">Content</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 555 645 603">00</td> <td data-bbox="645 555 1429 603">Specific Protocol Type (1 Byte binary)</td> </tr> <tr> <td data-bbox="479 603 645 651">01..02</td> <td data-bbox="645 603 1429 651">Message Type: 0x0023 (2 Bytes binary)</td> </tr> <tr> <td data-bbox="479 651 645 699">03..22</td> <td data-bbox="645 651 1429 699">Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="479 699 645 746">23..42</td> <td data-bbox="645 699 1429 746">Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Specific Protocol Type (1 Byte binary)	01..02	Message Type: 0x0023 (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)								
Byte-Nr.	Content																			
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Eu.SCI-XX.PDI.112	Req	<p>Permitted values for message "Initialisation Completed":</p>																		
Eu.SCI-XX.PDI.113	Req	<p><b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0023.</p>																		
Eu.SCI-XX.PDI.128	Req	<p>Interfacing partners for message "Initialisation Complete"</p> <table border="1" data-bbox="479 1015 1536 1449"> <thead> <tr> <th data-bbox="479 1015 1010 1062">Sender</th> <th data-bbox="1010 1015 1536 1062">Receiver</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 1062 1010 1110">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 1062 1536 1110">Traffic Control System</td> </tr> <tr> <td data-bbox="479 1110 1010 1158">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 1110 1536 1158">Radio Block Centre</td> </tr> <tr> <td data-bbox="479 1158 1010 1206">Adjacent Interlocking System</td> <td data-bbox="1010 1158 1536 1206">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 1206 1010 1254">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 1206 1536 1254">Adjacent Interlocking System</td> </tr> <tr> <td data-bbox="479 1254 1010 1302">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 1254 1536 1302">Centralised ETCS L1 Controller</td> </tr> <tr> <td data-bbox="479 1302 1010 1350">Subsystem – Electronic Interlocking</td> <td data-bbox="1010 1302 1536 1350">Trackworker Safety System</td> </tr> <tr> <td data-bbox="479 1350 1010 1398">External Level Crossing System</td> <td data-bbox="1010 1350 1536 1398">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 1398 1010 1445">EULYNX field element subsystem</td> <td data-bbox="1010 1398 1536 1445">Subsystem – Electronic Interlocking</td> </tr> </tbody> </table>	Sender	Receiver	Subsystem – Electronic Interlocking	Traffic Control System	Subsystem – Electronic Interlocking	Radio Block Centre	Adjacent Interlocking System	Subsystem – Electronic Interlocking	Subsystem – Electronic Interlocking	Adjacent Interlocking System	Subsystem – Electronic Interlocking	Centralised ETCS L1 Controller	Subsystem – Electronic Interlocking	Trackworker Safety System	External Level Crossing System	Subsystem – Electronic Interlocking	EULYNX field element subsystem	Subsystem – Electronic Interlocking
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Subsystem – Electronic Interlocking	Radio Block Centre																			
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Subsystem – Electronic Interlocking	Centralised ETCS L1 Controller																			
Subsystem – Electronic Interlocking	Trackworker Safety System																			
External Level Crossing System	Subsystem – Electronic Interlocking																			
EULYNX field element subsystem	Subsystem – Electronic Interlocking																			

ID	Type	Requirement												
Eu.SCI-XX.PDI.114	Req	<p><b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Sender according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.</p>												
Eu.SCI-XX.PDI.115	Req	<p><b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Receiver according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.</p>												
Eu.SCI-XX.PDI.157	Head	<p><b>3.4.7 Command "Close PDI"</b></p>												
Eu.SCI-XX.PDI.158	Info	<p>With this telegram the Sender requests the Receiver to close the PDI connection. This telegram refines the InformationFlow "Cd_Close_PDI" specified in the requirements specification (ID Eu.Gen-SCI.479).</p>												
Eu.SCI-XX.PDI.159	Info	<p>Telegram definition for command "Close PDI"</p> <table border="1" data-bbox="479 632 1424 916"> <thead> <tr> <th data-bbox="479 632 645 676">Byte-Nr.</th> <th data-bbox="651 632 1424 676">Content</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 681 645 726">00</td> <td data-bbox="651 681 1424 726">Specific Protocol Type (1 Byte binary)</td> </tr> <tr> <td data-bbox="479 730 645 775">01..02</td> <td data-bbox="651 730 1424 775">Message Type: 0x0027 (2 Bytes binary)</td> </tr> <tr> <td data-bbox="479 780 645 825">03..22</td> <td data-bbox="651 780 1424 825">Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="479 829 645 874">23..42</td> <td data-bbox="651 829 1424 874">Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="479 879 645 916">43</td> <td data-bbox="651 879 1424 916">Close Reason (1 Byte binary)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Specific Protocol Type (1 Byte binary)	01..02	Message Type: 0x0027 (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	Close Reason (1 Byte binary)
Byte-Nr.	Content													
00	Specific Protocol Type (1 Byte binary)													
01..02	Message Type: 0x0027 (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	Close Reason (1 Byte binary)													
Eu.SCI-XX.PDI.160	Req	<p>Permitted values for command "Close PDI":</p>												
Eu.SCI-XX.PDI.161	Req	<p><b>Message Type</b> The message bytes 1 and 2 shall be set to 0x0027.</p>												
Eu.SCI-XX.PDI.162	Req	<p>Interfacing partners for command "Close PDI"</p>												

ID	Type	Requirement																			
		<table border="1"> <thead> <tr> <th data-bbox="479 161 1003 209">Sender</th> <th data-bbox="1003 161 1527 209">Receiver</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 209 1003 256">Adjacent Interlocking System</td> <td data-bbox="1003 209 1527 256">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 256 1003 304">Subsystem – Electronic Interlocking</td> <td data-bbox="1003 256 1527 304">Adjacent Interlocking System</td> </tr> <tr> <td data-bbox="479 304 1003 352">Traffic Control System</td> <td data-bbox="1003 304 1527 352">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 352 1003 400">Radio Block Centre</td> <td data-bbox="1003 352 1527 400">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 400 1003 448">Centralised ETCS L1 Controller</td> <td data-bbox="1003 400 1527 448">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 448 1003 496">Trackworker Safety System</td> <td data-bbox="1003 448 1527 496">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 496 1003 544">Subsystem – Electronic Interlocking</td> <td data-bbox="1003 496 1527 544">External Level Crossing System</td> </tr> <tr> <td data-bbox="479 544 1003 592">Subsystem – Electronic Interlocking</td> <td data-bbox="1003 544 1527 592">EULYNX field element subsystem</td> </tr> </tbody> </table>		Sender	Receiver	Adjacent Interlocking System	Subsystem – Electronic Interlocking	Subsystem – Electronic Interlocking	Adjacent Interlocking System	Traffic Control System	Subsystem – Electronic Interlocking	Radio Block Centre	Subsystem – Electronic Interlocking	Centralised ETCS L1 Controller	Subsystem – Electronic Interlocking	Trackworker Safety System	Subsystem – Electronic Interlocking	Subsystem – Electronic Interlocking	External Level Crossing System	Subsystem – Electronic Interlocking	EULYNX field element subsystem
Sender	Receiver																				
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Radio Block Centre	Subsystem – Electronic Interlocking																				
Centralised ETCS L1 Controller	Subsystem – Electronic Interlocking																				
Trackworker Safety System	Subsystem – Electronic Interlocking																				
Subsystem – Electronic Interlocking	External Level Crossing System																				
Subsystem – Electronic Interlocking	EULYNX field element subsystem																				
Eu.SCI-XX.PDI.163	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Sender according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.																			
Eu.SCI-XX.PDI.164	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Receiver according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.																			
Eu.SCI-XX.PDI.202	Req	<b>Close Reason</b> The message byte 43 shall contain the close reason. Permitted values:  <table border="0"> <thead> <tr> <th data-bbox="479 1023 667 1046">value</th> <th data-bbox="667 1023 815 1046">meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 1046 667 1070">-----</td> <td data-bbox="667 1046 815 1070">-----</td> </tr> </tbody> </table>		value	meaning	-----	-----														
value	meaning																				
-----	-----																				
Eu.SCI-XX.PDI.203	Req	0x01	Protocol error																		
Eu.SCI-XX.PDI.204	Req	0x02	Formal telegram error																		
Eu.SCI-XX.PDI.205	Req	0x03	Content telegram error																		
Eu.SCI-XX.PDI.206	Req	0x04	Normal close																		
Eu.SCI-XX.PDI.207	Req	0x05	Other version required																		
Eu.SCI-XX.PDI.208	Req	0x06	Timeout																		

ID	Type	Requirement										
Eu.SCI-XX.PDI.209	Req	0x07      Checksum mismatch										
Eu.SCI-XX.PDI.165	Head	<b>3.4.8 Command "Release PDI for Maintenance"</b>										
Eu.SCI-XX.PDI.166	Info	With this telegram the Sender requests the Receiver to release the PDI connection for Maintenance. This telegram refines the InformationFlow "Cd_Release_PDI_for_Maintenance" specified in the requirements specification (ID Eu.Gen-SCI.482).										
Eu.SCI-XX.PDI.167	Info	Telegram definition for command "Release PDI for Maintenance" <table border="1" data-bbox="477 475 1424 715" style="margin-left: 20px;"> <thead> <tr> <th>Byte-Nr.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Specific Protocol Type (1 Byte binary)</td> </tr> <tr> <td>01..02</td> <td>Message Type: 0x0028 (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> </tbody> </table>	Byte-Nr.	Content	00	Specific Protocol Type (1 Byte binary)	01..02	Message Type: 0x0028 (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)
Byte-Nr.	Content											
00	Specific Protocol Type (1 Byte binary)											
01..02	Message Type: 0x0028 (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)											
Eu.SCI-XX.PDI.168	Req	Permitted values for command "Release PDI for Maintenance":										
Eu.SCI-XX.PDI.169	Req	<b>Message Type</b> The message bytes 1 and 2 shall be set to 0x0028.										
Eu.SCI-XX.PDI.170	Req	Interfacing partners for command "Release PDI for Maintenance" <table border="1" data-bbox="477 978 1527 1121" style="margin-left: 20px;"> <thead> <tr> <th>Sender</th> <th>Receiver</th> </tr> </thead> <tbody> <tr> <td>Subsystem – Electronic Interlocking</td> <td>EULYNX field element subsystem</td> </tr> <tr> <td>Subsystem – Electronic Interlocking</td> <td>External Level Crossing System</td> </tr> </tbody> </table>	Sender	Receiver	Subsystem – Electronic Interlocking	EULYNX field element subsystem	Subsystem – Electronic Interlocking	External Level Crossing System				
Sender	Receiver											
Subsystem – Electronic Interlocking	EULYNX field element subsystem											
Subsystem – Electronic Interlocking	External Level Crossing System											
Eu.SCI-XX.PDI.171	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Sender according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.										
Eu.SCI-XX.PDI.172	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Receiver according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.										
Eu.SCI-XX.PDI.173	Head	<b>3.4.9 Message "PDI Available"</b>										

ID	Type	Requirement										
Eu.SCI-XX.PDI.174	Info	With this telegram the Sender announces, that the PDI connection is available. This telegram refines the InformationFlow "Msg_PDI_Available" specified in the requirements specification (ID Eu.Gen-SCI.484).										
Eu.SCI-XX.PDI.175	Info	Telegram definition for message "PDI Available" <table border="1" data-bbox="477 319 1426 560"> <thead> <tr> <th data-bbox="477 319 645 363">Byte-Nr.</th> <th data-bbox="645 319 1426 363">Content</th> </tr> </thead> <tbody> <tr> <td data-bbox="477 363 645 408">00</td> <td data-bbox="645 363 1426 408">Specific Protocol Type (1 Byte binary)</td> </tr> <tr> <td data-bbox="477 408 645 453">01..02</td> <td data-bbox="645 408 1426 453">Message Type: 0x0029 (2 Bytes binary)</td> </tr> <tr> <td data-bbox="477 453 645 497">03..22</td> <td data-bbox="645 453 1426 497">Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="477 497 645 560">23..42</td> <td data-bbox="645 497 1426 560">Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Specific Protocol Type (1 Byte binary)	01..02	Message Type: 0x0029 (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)
Byte-Nr.	Content											
00	Specific Protocol Type (1 Byte binary)											
01..02	Message Type: 0x0029 (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)											
Eu.SCI-XX.PDI.176	Req	Permitted values for message "PDI Available":										
Eu.SCI-XX.PDI.177	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x0029.										
Eu.SCI-XX.PDI.178	Req	Interfacing partners for message "PDI Available" <table border="1" data-bbox="477 823 1534 970"> <thead> <tr> <th data-bbox="477 823 1010 868">Sender</th> <th data-bbox="1010 823 1534 868">Receiver</th> </tr> </thead> <tbody> <tr> <td data-bbox="477 868 1010 912">EULYNX field element subsystem</td> <td data-bbox="1010 868 1534 912">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="477 912 1010 970">External Level Crossing System</td> <td data-bbox="1010 912 1534 970">Subsystem – Electronic Interlocking</td> </tr> </tbody> </table>	Sender	Receiver	EULYNX field element subsystem	Subsystem – Electronic Interlocking	External Level Crossing System	Subsystem – Electronic Interlocking				
Sender	Receiver											
EULYNX field element subsystem	Subsystem – Electronic Interlocking											
External Level Crossing System	Subsystem – Electronic Interlocking											
Eu.SCI-XX.PDI.179	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Sender according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.										
Eu.SCI-XX.PDI.180	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Receiver according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.										
Eu.SCI-XX.PDI.181	Head	<b>3.4.10 Message "PDI Not Available"</b>										
Eu.SCI-XX.PDI.182	Info	With this telegram the Sender announces, that the PDI connection is not available. This telegram refines the InformationFlow "Msg_PDI_Not_Available" specified in the requirements specification (ID Eu.Gen-SCI.485).										

ID	Type	Requirement										
Eu.SCI-XX.PDI.183	Info	Telegram definition for message "PDI Not Available" <table border="1" data-bbox="479 225 1426 464"> <thead> <tr> <th data-bbox="479 225 645 268">Byte-Nr.</th> <th data-bbox="645 225 1426 268">Content</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 268 645 311">00</td> <td data-bbox="645 268 1426 311">Specific Protocol Type (1 Byte binary)</td> </tr> <tr> <td data-bbox="479 311 645 354">01..02</td> <td data-bbox="645 311 1426 354">Message Type: 0x002A (2 Bytes binary)</td> </tr> <tr> <td data-bbox="479 354 645 397">03..22</td> <td data-bbox="645 354 1426 397">Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="479 397 645 464">23..42</td> <td data-bbox="645 397 1426 464">Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Specific Protocol Type (1 Byte binary)	01..02	Message Type: 0x002A (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)
Byte-Nr.	Content											
00	Specific Protocol Type (1 Byte binary)											
01..02	Message Type: 0x002A (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)											
Eu.SCI-XX.PDI.184	Req	Permitted values for message "PDI Not Available":										
Eu.SCI-XX.PDI.185	Req	<b>Message Type</b> The message bytes 1 - 2 shall be set to 0x002A.										
Eu.SCI-XX.PDI.186	Req	Interfacing partners for message "PDI Not Available" <table border="1" data-bbox="479 730 1534 874"> <thead> <tr> <th data-bbox="479 730 1010 774">Sender</th> <th data-bbox="1010 730 1534 774">Receiver</th> </tr> </thead> <tbody> <tr> <td data-bbox="479 774 1010 817">EULYNX field element subsystem</td> <td data-bbox="1010 774 1534 817">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="479 817 1010 874">External Level Crossing System</td> <td data-bbox="1010 817 1534 874">Subsystem – Electronic Interlocking</td> </tr> </tbody> </table>	Sender	Receiver	EULYNX field element subsystem	Subsystem – Electronic Interlocking	External Level Crossing System	Subsystem – Electronic Interlocking				
Sender	Receiver											
EULYNX field element subsystem	Subsystem – Electronic Interlocking											
External Level Crossing System	Subsystem – Electronic Interlocking											
Eu.SCI-XX.PDI.187	Req	<b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Sender according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.										
Eu.SCI-XX.PDI.188	Req	<b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Receiver according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.										
Eu.SCI-XX.PDI.189	Head	<b>3.4.11 Message "Reset PDI"</b>										
Eu.SCI-XX.PDI.190	Info	With this telegram the sender informs about an detected communication error to rest the PDI connection. This telegram refines the InformationFlow "Msg_Reset_PDI" specified in the requirements specification (ID Eu.Gen-SCI.487).										
Eu.SCI-XX.PDI.191	Info	Telegram definition for message "Reset PDI"										

ID	Type	Requirement																		
		<table border="1"> <thead> <tr> <th data-bbox="477 161 645 204">Byte-Nr.</th> <th data-bbox="645 161 1424 204">Content</th> </tr> </thead> <tbody> <tr> <td data-bbox="477 204 645 247">00</td> <td data-bbox="645 204 1424 247">Specific Protocol Type (1 Byte binary)</td> </tr> <tr> <td data-bbox="477 247 645 290">01..02</td> <td data-bbox="645 247 1424 290">Message Type: 0x002B (2 Bytes binary)</td> </tr> <tr> <td data-bbox="477 290 645 333">03..22</td> <td data-bbox="645 290 1424 333">Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="477 333 645 376">23..42</td> <td data-bbox="645 333 1424 376">Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td> </tr> <tr> <td data-bbox="477 376 645 419">43</td> <td data-bbox="645 376 1424 419">Reset Reason (1 Byte binary)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Specific Protocol Type (1 Byte binary)	01..02	Message Type: 0x002B (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	Reset Reason (1 Byte binary)						
Byte-Nr.	Content																			
00	Specific Protocol Type (1 Byte binary)																			
01..02	Message Type: 0x002B (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	Reset Reason (1 Byte binary)																			
Eu.SCI-XX.PDI.192	Req	Permitted values for message "Reset PDI":																		
Eu.SCI-XX.PDI.193	Req	<p><b>Message Type</b> The message bytes 1 - 2 shall be set to 0x002B.</p>																		
Eu.SCI-XX.PDI.194	Req	<p>Interfacing partners for message "Reset PDI"</p> <table border="1"> <thead> <tr> <th data-bbox="477 715 1008 758">Sender</th> <th data-bbox="1008 715 1534 758">Receiver</th> </tr> </thead> <tbody> <tr> <td data-bbox="477 758 1008 801">Subsystem – Electronic Interlocking</td> <td data-bbox="1008 758 1534 801">Traffic Control System</td> </tr> <tr> <td data-bbox="477 801 1008 844">Subsystem – Electronic Interlocking</td> <td data-bbox="1008 801 1534 844">Radio Block Centre</td> </tr> <tr> <td data-bbox="477 844 1008 887">Subsystem – Electronic Interlocking</td> <td data-bbox="1008 844 1534 887">Adjacent Interlocking System</td> </tr> <tr> <td data-bbox="477 887 1008 930">Adjacent Interlocking System</td> <td data-bbox="1008 887 1534 930">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="477 930 1008 973">Subsystem – Electronic Interlocking</td> <td data-bbox="1008 930 1534 973">Centralised ETCS L1 Controller</td> </tr> <tr> <td data-bbox="477 973 1008 1016">Subsystem – Electronic Interlocking</td> <td data-bbox="1008 973 1534 1016">Trackworker Safety System</td> </tr> <tr> <td data-bbox="477 1016 1008 1059">External Level Crossing System</td> <td data-bbox="1008 1016 1534 1059">Subsystem – Electronic Interlocking</td> </tr> <tr> <td data-bbox="477 1059 1008 1102">EULYNX field element subsystem</td> <td data-bbox="1008 1059 1534 1102">Subsystem – Electronic Interlocking</td> </tr> </tbody> </table>	Sender	Receiver	Subsystem – Electronic Interlocking	Traffic Control System	Subsystem – Electronic Interlocking	Radio Block Centre	Subsystem – Electronic Interlocking	Adjacent Interlocking System	Adjacent Interlocking System	Subsystem – Electronic Interlocking	Subsystem – Electronic Interlocking	Centralised ETCS L1 Controller	Subsystem – Electronic Interlocking	Trackworker Safety System	External Level Crossing System	Subsystem – Electronic Interlocking	EULYNX field element subsystem	Subsystem – Electronic Interlocking
Sender	Receiver																			
Subsystem – Electronic Interlocking	Traffic Control System																			
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Subsystem – Electronic Interlocking	Trackworker Safety System																			
External Level Crossing System	Subsystem – Electronic Interlocking																			
EULYNX field element subsystem	Subsystem – Electronic Interlocking																			
Eu.SCI-XX.PDI.195	Req	<p><b>Sender Identifier</b> The message bytes 3 - 22 shall contain the technical identifier of the Sender according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.</p>																		
Eu.SCI-XX.PDI.196	Req	<p><b>Receiver Identifier</b> The message bytes 23 - 42 shall contain the technical identifier of the Receiver according to ID Eu.SCI-XX.PDI.60 in ISO IEC 8859-1:1998 format.</p>																		

ID	Type	Requirement					
Eu.SCI-XX.PDI.197	Req	<p><b>Reset Reason</b> The message byte 43 shall contain the reset reason. Permitted values:</p> <table data-bbox="477 292 815 347"> <thead> <tr> <th data-bbox="477 292 656 320">value</th> <th data-bbox="660 292 815 320">meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="477 323 656 347">-----</td> <td data-bbox="660 323 815 347">-----</td> </tr> </tbody> </table>		value	meaning	-----	-----
value	meaning						
-----	-----						
Eu.SCI-XX.PDI.199	Req	0x01	Protocol error				
Eu.SCI-XX.PDI.200	Req	0x02	Formal telegram error				
Eu.SCI-XX.PDI.201	Req	0x03	Content telegram error				