



EULYNX Initiative



Europe's Rail Joint Undertaking

Interface specification SCI-TDS

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ID	Type	Requirement	Func. Pkg.
Eu.SCI-TDS.PDI.4	Head	1 Introduction	
Eu.SCI-TDS.PDI.5	Head	1.1 Release information	
Eu.SCI-TDS.PDI.6	Info	[Eu.Doc.44] Interface specification SCI-TDS CENELEC Phase: 5 Version: 4.0 (2.A) Approval date: 15.06.2023	
Eu.SCI-TDS.PDI.1	Info	Version history	
Eu.SCI-TDS.PDI.714	Info	version number: 4.0 (0.A) date: 17.05.2022 author: Marie Gehrmann review: CCB changes: EUTDS-404, EUTDS-408, EUTDS-413	
Eu.SCI-TDS.PDI.730	Info	version number: 4.0 (1.A) date: 06.03.2023 author: Marie Gehrmann review: - changes: EUTDS-414, EUTDS-418, EUTDS-427, EUTDS-429	
Eu.SCI-TDS.PDI.733	Info	version number: 4.0 (2.A) date: 28.06.2023 author: Marie Gehrmann review: TACS Mirror Group changes: EUTDS-435, EUTDS-441, EUTDS-449, EUTDS-450, EUTDS-459, EUTDS-460, EUTDS-462	
Eu.SCI-TDS.PDI.7	Head	1.2 Impressum	
Eu.SCI-TDS.PDI.8	Info	Publishers: Europe's Rail Joint Undertaking https://rail-research.europa.eu/ EULYNX Initiative A full list of the EULYNX Partners can be found on www.eulynx.eu/index.php/members	

ID	Type	Requirement	Func. Pkg.
Eu.SCI-TDS.PDI.9	Info	Responsible for this document: EU-Rail System Pillar Trackside Assets Control and Supervision domain	
Eu.SCI-TDS.PDI.594	Info	Copyright EULYNX Partners All information included or disclosed in this document is licensed under the European Union Public License EUPL, Version 1.2 or later.	
Eu.SCI-TDS.PDI.10	Head	1.3 Purpose	
Eu.SCI-TDS.PDI.11	Info	This document specifies the application layer of the standardised interface for safe communication between the Subsystem - Electronic Interlocking and Subsystem - Train Detection System (SCI-TDS).	
Eu.SCI-TDS.PDI.12	Info	This application layer is designated as SCI-TDS.PDI.	
Eu.SCI-TDS.PDI.13	Info	This document contains the general requirements for communication and the technical specification (e.g. telegrams) of the SCI-TDS.PDI.	
Eu.SCI-TDS.PDI.14	Info	This specification does not define the detailed behaviour of the interfacing partners (Subsystem - Electronic Interlocking and Subsystem - Train Detection System), nor the situations in which the defined telegrams are sent. This behaviour is the subject of the individual system specifications.	
Eu.SCI-TDS.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.	
Eu.SCI-TDS.PDI.16	Info	This document is intended for the following users: <ul style="list-style-type: none"> • safety authorities • infrastructure managers • safety assessors • signalling system suppliers • validators 	
Eu.SCI-TDS.PDI.734	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-TDS.PDI.18	Head	1.4 Applicable standards and regulations	
Eu.SCI-TDS.PDI.19	Info	The applicable standards and regulations used in EULYNX are listed in the EULYNX Reference Document List [Eu.Doc.12].	

ID	Type	Requirement	Func. Pkg.
Eu.SCI-TDS.PDI.293	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-TDS" is stated.	
Eu.SCI-TDS.PDI.20	Head	1.5 Applicable documents	
Eu.SCI-TDS.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].	
Eu.SCI-TDS.PDI.24	Head	1.6 Appendices	
Eu.SCI-TDS.PDI.25	Info	<i>- intentionally left blank -</i>	
Eu.SCI-TDS.PDI.150	Head	1.7 Terms and abbreviations	
Eu.SCI-TDS.PDI.151	Info	The terms and abbreviations are listed in the EULYNX Glossary [Eu.Doc.9].	
Eu.SCI-TDS.PDI.152	Head	1.8 Variability management	
Eu.SCI-TDS.PDI.153	Info	This document describes harmonised requirements. Variability management is not applicable.	
Eu.SCI-TDS.PDI.26	Head	1.9 Definition of object types	
Eu.SCI-TDS.PDI.27	Info	The following definition for object types is applied in this document:	
Eu.SCI-TDS.PDI.28	Info	<ul style="list-style-type: none"> • "Req" - This denotes a mandatory requirement. 	
Eu.SCI-TDS.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. 	
Eu.SCI-TDS.PDI.32	Info	<ul style="list-style-type: none"> • "Head" - This denotes chapter headings. 	
Eu.SCI-TDS.PDI.33	Head	2 General requirements	
Eu.SCI-TDS.PDI.672	Req	All references to Eu.Doc.93 refer to Interface specification SCI Generic version 3.2 (0.A).	
Eu.SCI-TDS.PDI.711	Req	All references to Eu.Doc.43 refer to Requirements specification for subsystem TDS version 4.1 (0.A)	
Eu.SCI-TDS.PDI.42	Head	2.1 Version handling	

ID	Type	Requirement	Func. Pkg.
Eu.SCI-TDS.PDI.602	Info	The Version handling is described in Eu.Doc.93.	
Eu.SCI-TDS.PDI.671	Req	The PDI-version of the SCI-TDS as described in this document is 0x03.	
Eu.SCI-TDS.PDI.49	Head	2.2 Communication requirements	
Eu.SCI-TDS.PDI.50	Req	The Communication requirements are described in Eu.Doc.93.	
Eu.SCI-TDS.PDI.712	Head	2.3 Functional requirements	
Eu.SCI-TDS.PDI.713	Info	The functional requirements for SCI-TDS are described in Eu.Doc.43.	
Eu.SCI-TDS.PDI.54	Head	3 Telegrams SCI-TDS.PDI	
Eu.SCI-TDS.PDI.55	Info	This chapter defines the SCI-TDS.PDI telegrams.	Basic TDS AC Basic TDS TDP Basic TDS TC
Eu.SCI-TDS.PDI.56	Head	3.1 Telegram structure	
Eu.SCI-TDS.PDI.603	Info	The telegram structure is specified in Eu.Doc.93.	Basic TDS AC Basic TDS TDP Basic TDS TC
Eu.SCI-TDS.PDI.64	Head	3.2 Sender and Receiver Identifier	
Eu.SCI-TDS.PDI.604	Info	The identification of communications partners is specified in Eu.Doc.93.	Basic TDS AC Basic TDS TDP Basic TDS TC
Eu.SCI-TDS.PDI.70	Head	3.3 Message and command type overview	

ID	Type	Requirement					Func. Pkg.																																																		
Eu.SCI-TDS.PDI.71	Info	<p>The following table shows permitted subsystem specific message types for the SCI-TDS.PDI. The permitted generic message types are specified in Eu.Doc.93.</p> <table border="1"> <thead> <tr> <th>Message Type</th> <th>Value</th> <th>Sender</th> <th>Receiver</th> <th>Purpose</th> </tr> </thead> <tbody> <tr> <td><i>command</i> FC</td> <td>0x0001</td> <td>Subsystem - Electronic Interlocking</td> <td>TVPS</td> <td>Force section status to clear command to the Subsystem - Train Detection System. The Modes are: FC-C FC-U FC-P FC-P-A</td> </tr> <tr> <td><i>Command</i> Update Filling Level</td> <td>0x0002</td> <td>Subsystem - Electronic Interlocking</td> <td>TVPS</td> <td>Request from the Subsystem - Electronic Interlocking to send the current Filling Level.</td> </tr> <tr> <td><i>command</i> DRFC</td> <td>0x0003</td> <td>Subsystem - Electronic Interlocking</td> <td>TVPS</td> <td>Command to execute the Disable the restriction to force section status to clear operation to the Subsystem - Train Detection System.</td> </tr> <tr> <td><i>command</i> Cancel</td> <td>0x0008</td> <td>Subsystem - Electronic Interlocking</td> <td>TVPS</td> <td>Command to cancel the execution of FC-P and FC-P-A.</td> </tr> <tr> <td><i>message</i> Command Rejected</td> <td>0x0006</td> <td>TVPS</td> <td>Subsystem - Electronic Interlocking</td> <td>Message from the Subsystem - Train Detection System, that the previously sent command was rejected.</td> </tr> <tr> <td><i>message</i> TVPS Occupancy Status</td> <td>0x0007</td> <td>TVPS</td> <td>Subsystem - Electronic Interlocking</td> <td>Message of the TVPS status. Parameter: occupancy status and ability to be forced to clear.</td> </tr> <tr> <td><i>message</i> TVPS FC-P failed</td> <td>0x0010</td> <td>TVPS</td> <td>Subsystem - Electronic Interlocking</td> <td>Message from the Subsystem - Train Detection System to the Subsystem - Electronic Interlocking that the execution of the FC-P was not successful.</td> </tr> <tr> <td><i>message</i> TVPS FC-P-A failed</td> <td>0x0011</td> <td>TVPS</td> <td>Subsystem - Electronic Interlocking</td> <td>Message from the Subsystem - Train Detection System to the Subsystem - Electronic Interlocking that the execution of the FC-P-A was not successful.</td> </tr> <tr> <td><i>message</i> TDP Status</td> <td>0x000B</td> <td>TDP</td> <td>Subsystem - Electronic Interlocking</td> <td>Message of the TDP status.</td> </tr> </tbody> </table>					Message Type	Value	Sender	Receiver	Purpose	<i>command</i> FC	0x0001	Subsystem - Electronic Interlocking	TVPS	Force section status to clear command to the Subsystem - Train Detection System. The Modes are: FC-C FC-U FC-P FC-P-A	<i>Command</i> Update Filling Level	0x0002	Subsystem - Electronic Interlocking	TVPS	Request from the Subsystem - Electronic Interlocking to send the current Filling Level.	<i>command</i> DRFC	0x0003	Subsystem - Electronic Interlocking	TVPS	Command to execute the Disable the restriction to force section status to clear operation to the Subsystem - Train Detection System.	<i>command</i> Cancel	0x0008	Subsystem - Electronic Interlocking	TVPS	Command to cancel the execution of FC-P and FC-P-A.	<i>message</i> Command Rejected	0x0006	TVPS	Subsystem - Electronic Interlocking	Message from the Subsystem - Train Detection System, that the previously sent command was rejected.	<i>message</i> TVPS Occupancy Status	0x0007	TVPS	Subsystem - Electronic Interlocking	Message of the TVPS status. Parameter: occupancy status and ability to be forced to clear.	<i>message</i> TVPS FC-P failed	0x0010	TVPS	Subsystem - Electronic Interlocking	Message from the Subsystem - Train Detection System to the Subsystem - Electronic Interlocking that the execution of the FC-P was not successful.	<i>message</i> TVPS FC-P-A failed	0x0011	TVPS	Subsystem - Electronic Interlocking	Message from the Subsystem - Train Detection System to the Subsystem - Electronic Interlocking that the execution of the FC-P-A was not successful.	<i>message</i> TDP Status	0x000B	TDP	Subsystem - Electronic Interlocking	Message of the TDP status.	Basic TDS AC Basic TDS TDP Basic TDS TC Option FC-P/-A Option Update FL
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ID	Type	Requirement	Func. Pkg.												
Eu.SCI-TDS.PDI.72	Head	3.4 Telegram definitions													
Eu.SCI-TDS.PDI.73	Info	In this chapter, specific telegrams for SCI-TDS.PDI are defined. The generic telegrams are defined in Eu.Doc.93.	Basic TDS AC Basic TDS TDP Basic TDS TC												
Eu.SCI-TDS.PDI.163	Head	3.4.1 Command "FC"													
Eu.SCI-TDS.PDI.164	Info	With this command the Subsystem - Electronic Interlocking forces a TVPS status to clear. This telegram refines the InformationFlow "Cd_FC" specified in the requirements specification (ID Eu.TDS.6803).	Basic TDS AC												
Eu.SCI-TDS.PDI.165	Info	Telegram definition for command "FC" <table border="1"> <thead> <tr> <th>Byte-Nr.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Protocol Type: 0x20 (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</td> <td>Mode of FC (1 Byte binary)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Protocol Type: 0x20 (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	Mode of FC (1 Byte binary)	Basic TDS AC
Byte-Nr.	Content														
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23..42	Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)														
43	Mode of FC (1 Byte binary)														
Eu.SCI-TDS.PDI.166	Req	Permitted values for message "FC":	Basic TDS AC												
Eu.SCI-TDS.PDI.167	Req	Message Type The message bytes 1 and 2 shall be set to 0x0001.	Basic TDS AC												
Eu.SCI-TDS.PDI.168	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Basic TDS AC												
Eu.SCI-TDS.PDI.169	Req	Receiver Identifier The messages bytes 23-42 shall contain the operational identifier of the TVPS according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Basic TDS AC												

ID	Type	Requirement	Func. Pkg.										
Eu.SCI-TDS.PDI.170	Req	Mode of FC The message byte 43 shall contain the modes of FC. Permitted values: value meaning ----- -----	Basic TDS AC										
Eu.SCI-TDS.PDI.172	Req	0x01 FC-U	Basic TDS AC										
Eu.SCI-TDS.PDI.173	Req	0x02 FC-C	Basic TDS AC										
Eu.SCI-TDS.PDI.174	Req	0x03 FC-P-A	Option FC-P/-A										
Eu.SCI-TDS.PDI.175	Req	0x04 FC-P	Option FC-P/-A										
Eu.SCI-TDS.PDI.587	Req	0x05 Acknowledgment after FC-P-A command	Option FC-P/-A										
Eu.SCI-TDS.PDI.614	Head	3.4.2 Command "Update Filling Level"											
Eu.SCI-TDS.PDI.615	Info	With this command the Subsystem - Electronic Interlocking requests the TVPS to send the current Filling Level of the given TVPS. This telegram refines the InformationFlow "Cd_Update_Filling_Level" specified in the requirements specification (ID Eu.TDS.6806).	Option Update FL										
Eu.SCI-TDS.PDI.616	Info	Telegram definition for command "Update Filling Level" <table border="1"> <thead> <tr> <th>Byte-Nr.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Protocol Type: 0x20 (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> </tbody> </table>	Byte-Nr.	Content	00	Protocol Type: 0x20 (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)	Option Update FL
Byte-Nr.	Content												
00	Protocol Type: 0x20 (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)												

ID	Type	Requirement	Func. Pkg.										
Eu.SCI-TDS.PDI.617	Req	Permitted values for message "Update Filling Level"	Option Update FL										
Eu.SCI-TDS.PDI.618	Req	Message Type The message bytes 1 and 2 shall be set to 0x0002.	Option Update FL										
Eu.SCI-TDS.PDI.619	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Option Update FL										
Eu.SCI-TDS.PDI.620	Req	Receiver Identifier The message bytes 23-42 shall contain the operational identifier of the TVPS according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Option Update FL										
Eu.SCI-TDS.PDI.696	Head	3.4.3 Command "Cancel"											
Eu.SCI-TDS.PDI.697	Info	With this command the Subsystem - Electronic Interlocking forces the TVPS to cancel the execution of FC-P and FC-P-A. This telegram refines the InformationFlow "Cd_Cancel" specified in the requirements specification (ID Eu.TDS.6801).	Option FC-P/-A										
Eu.SCI-TDS.PDI.698	Info	Telegram definition for command "Cancel" <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Byte-Nr.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Protocol Type: 0x20 (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> </tbody> </table>	Byte-Nr.	Content	00	Protocol Type: 0x20 (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)	Option FC-P/-A
Byte-Nr.	Content												
00	Protocol Type: 0x20 (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)												
Eu.SCI-TDS.PDI.699	Req	Permitted values for message "Cancel":	Option FC-P/-A										
Eu.SCI-TDS.PDI.700	Req	Message Type The message bytes 1 and 2 shall be set to 0x0008.	Option FC-P/-A										

ID	Type	Requirement	Func. Pkg.										
Eu.SCI-TDS.PDI.701	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Option FC-P/-A										
Eu.SCI-TDS.PDI.702	Req	Receiver Identifier The message bytes 23-42 shall contain the operational identifier of the TVPS according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Option FC-P/-A										
Eu.SCI-TDS.PDI.181	Head	3.4.4 Command "Disable the restriction to force section status to clear"											
Eu.SCI-TDS.PDI.182	Info	With this command the Subsystem - Electronic Interlocking forces the TVPS to change its status to be able to be forced to clear. This telegram refines the InformationFlow "Cd_DRFC" specified in the requirements specification (ID Eu.TDS.6802).	Basic TDS AC										
Eu.SCI-TDS.PDI.183	Info	Telegram definition for command "DRFC" <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Byte-Nr.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Protocol Type: 0x20 (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> </tbody> </table>	Byte-Nr.	Content	00	Protocol Type: 0x20 (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)	Basic TDS AC
Byte-Nr.	Content												
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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-TDS.PDI.184	Req	Permitted values for message "DRFC":	Basic TDS AC										
Eu.SCI-TDS.PDI.185	Req	Message Type The message bytes 1 and 2 shall be set to 0x0003.	Basic TDS AC										
Eu.SCI-TDS.PDI.186	Req	Sender Identifier The message bytes 3-22 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Basic TDS AC										
Eu.SCI-TDS.PDI.187	Req	Receiver Identifier The message bytes 23-42 shall contain the operational identifier of the TVPS according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Basic TDS AC										
Eu.SCI-TDS.PDI.194	Head	3.4.5 Message "TVPS Occupancy Status"											

ID	Type	Requirement	Func. Pkg.																						
Eu.SCI-TDS.PDI.195	Info	With this telegram the Subsystem - Train Detection System reports the status of a TVPS. This telegram refines the InformationFlow "Msg_TVPS_Occupancy_Status" specified in the requirements specification (ID Eu.TDS.6824).	Basic TDS AC Basic TDS TC																						
Eu.SCI-TDS.PDI.196	Info	Telegram definition for message "TVPS Occupancy Status" <table border="1"> <thead> <tr> <th>Byte-Nr.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Protocol Type: 0x20 (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</td> <td>Occupancy Status (1 Byte binary)</td> </tr> <tr> <td>44</td> <td>Ability to be forced to clear (1 Byte binary - Boolean)</td> </tr> <tr> <td>45..46</td> <td>Filling Level (2 Bytes binary - signed integer)</td> </tr> <tr> <td>47</td> <td>POM Status (1 Byte binary)</td> </tr> <tr> <td>48</td> <td>Disturbance Status (1 Byte binary)</td> </tr> <tr> <td>49</td> <td>Change Trigger (1 Byte binary)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Protocol Type: 0x20 (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	Occupancy Status (1 Byte binary)	44	Ability to be forced to clear (1 Byte binary - Boolean)	45..46	Filling Level (2 Bytes binary - signed integer)	47	POM Status (1 Byte binary)	48	Disturbance Status (1 Byte binary)	49	Change Trigger (1 Byte binary)	Basic TDS AC Basic TDS TC
Byte-Nr.	Content																								
00	Protocol Type: 0x20 (1 Byte binary)																								
01..02	Message Type: 0x0007 (2 Bytes binary)																								
03..22	Sender Identifier (20 Bytes ISO IEC 8859-1:1998)																								
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45..46	Filling Level (2 Bytes binary - signed integer)																								
47	POM Status (1 Byte binary)																								
48	Disturbance Status (1 Byte binary)																								
49	Change Trigger (1 Byte binary)																								
Eu.SCI-TDS.PDI.197	Req	Permitted values for message "TVPS Occupancy Status":	Basic TDS AC Basic TDS TC																						
Eu.SCI-TDS.PDI.198	Req	Message Type The message bytes 1 and 2 shall be set to 0x0007.	Basic TDS AC Basic TDS TC																						
Eu.SCI-TDS.PDI.199	Req	Sender Identifier The message bytes 3-22 shall contain the operational identifier of the TVPS according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Basic TDS AC Basic TDS TC																						

ID	Type	Requirement	Func. Pkg.
Eu.SCI-TDS.PDI.200	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Basic TDS AC Basic TDS TC
Eu.SCI-TDS.PDI.201	Req	Occupancy Status The message byte 43 shall contain the Occupancy Status. Permitted values: value meaning ----- -----	Basic TDS AC Basic TDS TC
Eu.SCI-TDS.PDI.203	Req	0x01 TVPS is in state vacant	Basic TDS AC Basic TDS TC
Eu.SCI-TDS.PDI.210	Req	0x02 TVPS is in state occupied	Basic TDS AC Basic TDS TC
Eu.SCI-TDS.PDI.211	Req	0x03 TVPS is in state disturbed	Basic TDS AC Basic TDS TC
Eu.SCI-TDS.PDI.212	Req	0x04 TVPS is in state waiting for a sweeping train after FC-P-A or FC-P command	Option FC-P/-A
Eu.SCI-TDS.PDI.588	Req	0x05 TVPS is in state waiting for an acknowledgment after FC-P-A command	Option FC-P/-A
Eu.SCI-TDS.PDI.705	Req	0x06 TVPS is in state sweeping train detected	Option FC-P/-A
Eu.SCI-TDS.PDI.207	Req	Ability to be forced to clear The message byte 44 shall contain the Ability to be forced to clear. Permitted values: value meaning ----- -----	Basic TDS AC Basic TDS TC

ID	Type	Requirement	Func. Pkg.
Eu.SCI-TDS.PDI.208	Req	0x01 TVPS is not able to be forced to clear	Basic TDS AC Basic TDS TC
Eu.SCI-TDS.PDI.209	Req	0x02 TVPS is able to be forced to clear	Basic TDS AC
Eu.SCI-TDS.PDI.607	Req	Filling Level The message bytes 45-46 shall contain the Filling Level in signed integer. Permitted values: value meaning ----- -----	Basic TDS AC Basic TDS TC
Eu.SCI-TDS.PDI.609	Req	0x0000 Filling Level is 0	Option Update FL
Eu.SCI-TDS.PDI.731	Req	(0x0001...0x3FFF) Filling Level is 1 until 16.383	Option Update FL
Eu.SCI-TDS.PDI.732	Req	(0x7FFF...0x4000) Filling Level is -1 until -16.384	Option Update FL
Eu.SCI-TDS.PDI.611	Req	0xFFFF Filling Level is not applicable	Basic TDS AC Basic TDS TC
Eu.SCI-TDS.PDI.669	Info	The payload 'Filling Level' will be filled with a value only when the message "TVPS Occupancy Status" is transmitted after receiving the command "Update Filling Level" from the Subsystem – Electronic Interlocking. In all other cases, the payload 'Filling Level' will be marked as not applicable.	Option Update FL
Eu.SCI-TDS.PDI.623	Req	POM Status The message byte 47 shall contain the POM Status. Permitted values: value meaning ----- -----	Basic TDS AC Basic TDS TC
Eu.SCI-TDS.PDI.624	Req	0x01 Power supply OK	Basic TDS TC

ID	Type	Requirement	Func. Pkg.				
Eu.SCI-TDS.PDI.625	Req	0x02 Power supply NOK	Basic TDS TC				
Eu.SCI-TDS.PDI.626	Req	0xFF POM Status is not applicable	Basic TDS AC Basic TDS TC				
Eu.SCI-TDS.PDI.692	Req	<p>Disturbance Status The message byte 48 shall contain the Disturbance Status. Permitted values:</p> <table border="0"> <tr> <td>value</td> <td>meaning</td> </tr> <tr> <td>-----</td> <td>-----</td> </tr> </table>	value	meaning	-----	-----	Basic TDS AC Basic TDS TC
value	meaning						
-----	-----						
Eu.SCI-TDS.PDI.693	Req	0x01 Disturbance is operational	Basic TDS AC				
Eu.SCI-TDS.PDI.694	Req	0x02 Disturbance is technical	Basic TDS AC Basic TDS TC				
Eu.SCI-TDS.PDI.695	Req	0xFF Disturbance status is not applicable	Basic TDS AC Basic TDS TC				
Eu.SCI-TDS.PDI.680	Req	<p>Change Trigger The message byte 49 shall contain the Change Trigger. Permitted values:</p> <table border="0"> <tr> <td>value</td> <td>meaning</td> </tr> <tr> <td>-----</td> <td>-----</td> </tr> </table>	value	meaning	-----	-----	Basic TDS AC Basic TDS TC
value	meaning						
-----	-----						
Eu.SCI-TDS.PDI.681	Req	0x01 Passing detected	Basic TDS AC Basic TDS TC				
Eu.SCI-TDS.PDI.682	Req	0x02 Command from EIL accepted	Basic TDS AC				

ID	Type	Requirement	Func. Pkg.												
Eu.SCI-TDS.PDI.684	Req	0x03 Command from maintainer accepted	Basic TDS AC												
Eu.SCI-TDS.PDI.685	Req	0x04 Technical failure	Basic TDS AC												
Eu.SCI-TDS.PDI.686	Req	0x05 Initial section state	Basic TDS AC												
Eu.SCI-TDS.PDI.707	Req	0x06 Internal trigger	Basic TDS AC												
Eu.SCI-TDS.PDI.683	Req	0xFF Change Trigger is not applicable	Basic TDS AC Basic TDS TC												
Eu.SCI-TDS.PDI.230	Head	3.4.6 Message "Command Rejected"													
Eu.SCI-TDS.PDI.231	Info	With this telegram the Subsystem - Train Detection System reports, that the previously sent command was rejected. This telegram refines the InformationFlow "Msg_Command_Rejected" specified in the requirements specification (ID Eu.TDS.6817).	Basic TDS AC												
Eu.SCI-TDS.PDI.232	Info	Telegram definition for message "Command Rejected" <table border="1"> <thead> <tr> <th>Byte-Nr.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Protocol Type: 0x20 (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</td> <td>Reason for Rejection (1 Byte binary)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Protocol Type: 0x20 (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	Reason for Rejection (1 Byte binary)	Basic TDS AC
Byte-Nr.	Content														
00	Protocol Type: 0x20 (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	Reason for Rejection (1 Byte binary)														
Eu.SCI-TDS.PDI.233	Req	Permitted values for message "Command Rejected":	Basic TDS AC												
Eu.SCI-TDS.PDI.234	Req	Message Type The message bytes 1 and 2 shall be set to 0x0006.	Basic TDS AC												

ID	Type	Requirement	Func. Pkg.												
Eu.SCI-TDS.PDI.235	Req	Sender Identifier The message bytes 3-22 shall contain the operational identifier of the TVPS according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Basic TDS AC												
Eu.SCI-TDS.PDI.236	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Basic TDS AC												
Eu.SCI-TDS.PDI.237	Req	Reason for Rejection The message byte 43 shall contain the Reason for Rejection. Permitted values: <table border="1"> <thead> <tr> <th>value</th> <th>meaning</th> </tr> </thead> <tbody> <tr> <td>-----</td> <td>-----</td> </tr> </tbody> </table>	value	meaning	-----	-----	Basic TDS AC								
value	meaning														
-----	-----														
Eu.SCI-TDS.PDI.239	Req	<table border="1"> <tbody> <tr> <td>0x01</td> <td>operational rejected</td> </tr> </tbody> </table>	0x01	operational rejected	Basic TDS AC										
0x01	operational rejected														
Eu.SCI-TDS.PDI.240	Req	<table border="1"> <tbody> <tr> <td>0x02</td> <td>technical rejected</td> </tr> </tbody> </table>	0x02	technical rejected	Basic TDS AC										
0x02	technical rejected														
Eu.SCI-TDS.PDI.246	Head	3.4.7 Message "TVPS FC-P failed"													
Eu.SCI-TDS.PDI.247	Info	With this telegram the Subsystem - Train Detection System reports, that the execution of the FC-P has failed. This telegram refines the InformationFlow "Msg_FC_P_Failed" specified in the requirements specification (ID Eu.TDS.6823).	Option FC-P/-A												
Eu.SCI-TDS.PDI.248	Info	Telegram definition for message "TVPS FC-P failed" <table border="1"> <thead> <tr> <th>Byte-Nr.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Protocol Type: 0x20 (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</td> <td>Reason for failure (1 Byte binary)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Protocol Type: 0x20 (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	Reason for failure (1 Byte binary)	Option FC-P/-A
Byte-Nr.	Content														
00	Protocol Type: 0x20 (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	Reason for failure (1 Byte binary)														
Eu.SCI-TDS.PDI.249	Req	Permitted values for message "TVPS FC-P failed":	Option FC-P/-A												

ID	Type	Requirement	Func. Pkg.
Eu.SCI-TDS.PDI.250	Req	Message Type The message bytes 1 and 2 shall be set to 0x0010.	Option FC-P/-A
Eu.SCI-TDS.PDI.251	Req	Sender Identifier The message bytes 3-22 shall contain the operational identifier of the TVPS according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Option FC-P/-A
Eu.SCI-TDS.PDI.252	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Option FC-P/-A
Eu.SCI-TDS.PDI.573	Req	Reason for failure The message byte 43 shall contain the Reason for Rejection. Permitted values: value meaning ----- -----	Option FC-P/-A
Eu.SCI-TDS.PDI.575	Req	0x01 incorrect count of the sweeping train	Option FC-P/-A
Eu.SCI-TDS.PDI.576	Req	0x02 Expiration of timer "Con_tmax_Response_Time_FC_P"	Option FC-P/-A
Eu.SCI-TDS.PDI.577	Req	0x03 Bounding detection point is configured as not permitted for FC-P	Option FC-P/-A
Eu.SCI-TDS.PDI.687	Req	0x04 Intentionally deleted	Option FC-P/-A
Eu.SCI-TDS.PDI.688	Req	0x05 Outgoing axle detected before expiration of minimum timer	Option FC-P/-A
Eu.SCI-TDS.PDI.689	Req	0x06 Process cancelled	Option FC-P/-A
Eu.SCI-TDS.PDI.253	Head	3.4.8 Message "TVPS FC-P-A failed"	
Eu.SCI-TDS.PDI.254	Info	With this telegram the Subsystem - Train Detection System reports, that the execution of the FC-P-A has failed. This telegram refines the InformationFlow "Msg_FC_P_A_Failed" specified in the requirements specification (ID Eu.TDS.6822).	Option FC-P/-A

ID	Type	Requirement	Func. Pkg.												
Eu.SCI-TDS.PDI.255	Info	Telegram definition for message "TVPS FC-P-A failed" <table border="1"> <thead> <tr> <th>Byte-Nr.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Protocol Type: 0x20 (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</td> <td>Reason for failure (1 Byte binary)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Protocol Type: 0x20 (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	Reason for failure (1 Byte binary)	Option FC-P/-A
Byte-Nr.	Content														
00	Protocol Type: 0x20 (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	Reason for failure (1 Byte binary)														
Eu.SCI-TDS.PDI.256	Req	Permitted values for message "TVPS FC-P-A failed":	Option FC-P/-A												
Eu.SCI-TDS.PDI.257	Req	Message Type The message bytes 1 and 2 shall be set to 0x0011.	Option FC-P/-A												
Eu.SCI-TDS.PDI.258	Req	Sender Identifier The message bytes 3-22 shall contain the operational identifier of the TVPS according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Option FC-P/-A												
Eu.SCI-TDS.PDI.259	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Option FC-P/-A												
Eu.SCI-TDS.PDI.578	Req	Reason for failure The message byte 43 shall contain the Reason for Rejection. Permitted values: <table> <thead> <tr> <th>value</th> <th>meaning</th> </tr> </thead> <tbody> <tr> <td>-----</td> <td>-----</td> </tr> </tbody> </table>	value	meaning	-----	-----	Option FC-P/-A								
value	meaning														
-----	-----														
Eu.SCI-TDS.PDI.580	Req	0x01 incorrect count of the sweeping train	Option FC-P/-A												
Eu.SCI-TDS.PDI.581	Req	0x02 Expiration of timer "Con_tmax_Response_Time_FC_P_A"	Option FC-P/-A												
Eu.SCI-TDS.PDI.582	Req	0x03 Bounding detection point is configured as not permitted for FC-P-A	Option FC-P/-A												

ID	Type	Requirement	Func. Pkg.														
Eu.SCI-TDS.PDI.583	Req	0x04 Intentionally deleted	Option FC-P/-A														
Eu.SCI-TDS.PDI.690	Req	0x05 Outgoing axle detected before expiration of minimum timer	Option FC-P/-A														
Eu.SCI-TDS.PDI.691	Req	0x06 Process cancelled	Option FC-P/-A														
Eu.SCI-TDS.PDI.645	Head	3.4.9 Message "TDP Status"															
Eu.SCI-TDS.PDI.646	Info	With this telegram the Subsystem - Train Detection System reports, reports the current status of the TDP. This telegram refines the InformationFlow "Msg_TDP_Status" specified in the requirements specification (ID Eu.TDS.6832).	Basic TDS TDP														
Eu.SCI-TDS.PDI.647	Info	Telegram definition for message "TDP Status" <table border="1"> <thead> <tr> <th>Byte-Nr.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Protocol Type: 0x20 (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</td> <td>State of passing (1 Byte binary)</td> </tr> <tr> <td>44</td> <td>Direction of passing (1 Bytes binary)</td> </tr> </tbody> </table>	Byte-Nr.	Content	00	Protocol Type: 0x20 (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	State of passing (1 Byte binary)	44	Direction of passing (1 Bytes binary)	Basic TDS TDP
Byte-Nr.	Content																
00	Protocol Type: 0x20 (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	State of passing (1 Byte binary)																
44	Direction of passing (1 Bytes binary)																
Eu.SCI-TDS.PDI.648	Req	Message Type The message bytes 1 and 2 shall be set to 0x000B.	Basic TDS TDP														
Eu.SCI-TDS.PDI.649	Req	Sender Identifier The message bytes 3-22 shall contain the operational identifier of the TDP according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Basic TDS TDP														
Eu.SCI-TDS.PDI.650	Req	Receiver Identifier The message bytes 23-42 shall contain the technical identifier of the Subsystem - Electronic Interlocking according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Basic TDS TDP														

ID	Type	Requirement	Func. Pkg.
Eu.SCI-TDS.PDI.651	Req	State of passing The message byte 43 shall contain the State of passing. Permitted values: value meaning ----- -----	Basic TDS TDP
Eu.SCI-TDS.PDI.652	Req	0x01 not passed	Basic TDS TDP
Eu.SCI-TDS.PDI.654	Req	0x02 passed	Basic TDS TDP
Eu.SCI-TDS.PDI.655	Req	0x03 disturbed	Basic TDS TDP
Eu.SCI-TDS.PDI.656	Req	Direction of passing The message byte 44 shall contain the Direction of passing. Permitted values: value meaning ----- -----	Basic TDS TDP
Eu.SCI-TDS.PDI.657	Req	0x01 reference direction	Basic TDS TDP
Eu.SCI-TDS.PDI.658	Req	0x02 against reference direction	Basic TDS TDP
Eu.SCI-TDS.PDI.659	Req	0x03 without indicated direction	Basic TDS TDP