EULYNX Initiative

Europe's Rail Joint Undertaking

Interface specification SCI-LC

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ID	Type	Requirement	Func. Pkg.
Eu.SCI-LC.PDI.1	Head	**1 Introduction**	
Eu.SCI-LC.PDI.2	Head	**1.1 Release information**	
Eu.SCI-LC.PDI.3	Info	[Eu.Doc.109] Interface specification SCI-LC CENELEC Phase: 5 Version: 2.1 (0.A) Approval date: 15.06.2023	
Eu.SCI-LC.PDI.4	Info	**Version history**	
Eu.SCI-LC.PDI.221	Info	version number: 2.0 (0.A) date 16.05.2022 author: Philipp Wolber review: CCB changes: EULX-490, EULX-501, EULX-508	
Eu.SCI-LC.PDI.222	Info	version number: 2.1 (0.A) date 26.06.2023 author: Philipp Wolber review: TACS Mirror Group changes: EULX-534, EULX-540, EULX-550, EULX-557, EULX-560, EULX-563	
Eu.SCI-LC.PDI.6	Head	**1.2 Impressum**	
Eu.SCI-LC.PDI.7	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	
Eu.SCI-LC.PDI.8	Info	Responsible for this document: EU-Rail System Pillar Trackside Assets Control and Supervision domain	

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ID	Type	Requirement	Func. Pkg.
Eu.SCI-LC.PDI.9	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-LC.PDI.10	Head	**1.3 Purpose**	
Eu.SCI-LC.PDI.11	Info	This document specifies the application layer of the standardised interface for safe communication between the Subsystem - Electronic Interlocking and Subsystem - Level Crossing (SCI-LC).	
Eu.SCI-LC.PDI.12	Info	This application layer is designated as SCI-LC.PDI.	
Eu.SCI-LC.PDI.13	Info	This document contains the general requirements and the technical specification (e.g. telegrams) of the SCI-LC.	
Eu.SCI-LC.PDI.14	Info	This specification does not define the detailed behaviour of the interfacing partners (Subsystem - Electronic Interlocking and Subsystem - Level Crossing), nor the situations in which the defined telegrams are sent. This behaviour is the subject of the individual system specifications.	
Eu.SCI-LC.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 have to be covered in the appropriate systems specification.	
Eu.SCI-LC.PDI.16	Info	This document is intended for the following users: • safety authorities • infrastructure managers • safety assessors • signalling system suppliers • validators	
Eu.SCI-LC.PDI.223	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-LC.PDI.17	Head	**1.4 Applicable standards and regulations**	
Eu.SCI-LC.PDI.18	Info	The applicable standards and regulations used in EULYNX are listed in the EULYNX Reference Document List [Eu.Doc.12].	
Eu.SCI-LC.PDI.19	Head	**1.5 Applicable documents**	

ID	Type	Requirement	Func. Pkg.
Eu.SCI-LC.PDI.20	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-LC.PDI.21	Head	**1.6 Appendices**	
Eu.SCI-LC.PDI.22	Info	*- intentionally left blank -*	
Eu.SCI-LC.PDI.23	Head	**1.7 Terms and abbreviations**	
Eu.SCI-LC.PDI.24	Info	The terms and abbreviations are listed in the EULYNX Glossary [Eu.Doc.9].	
Eu.SCI-LC.PDI.25	Head	**1.8 Variability management**	
Eu.SCI-LC.PDI.26	Info	This document describes harmonised requirements. Variability management is not applicable.	
Eu.SCI-LC.PDI.27	Head	**1.9 Definition of object types**	
Eu.SCI-LC.PDI.28	Info	The following definition for object types is applied in this document:	
Eu.SCI-LC.PDI.29	Info	• "Req" - This denotes a mandatory requirement.	
Eu.SCI-LC.PDI.30	Info	• "Info" - This denotes additional information to help understand the specification. These objects do not specify any additional requirements.	
Eu.SCI-LC.PDI.31	Info	• "Head" - This denotes chapter headings.	
Eu.SCI-LC.PDI.32	Head	**2 General requirements**	
Eu.SCI-LC.PDI.206	Req	All references to Eu.Doc.93 refer to Interface specification SCI Generic version 3.2 (0.A).	
Eu.SCI-LC.PDI.217	Req	All references to Eu.Doc.108 refer to Requirements specification for subsystem Level Crossing version 2.2 (0.A)	
Eu.SCI-LC.PDI.33	Head	**2.1 Version handling**	
Eu.SCI-LC.PDI.34	Info	The Version handling is described in Eu.Doc.93.	
Eu.SCI-LC.PDI.207	Req	The PDI-version of the SCI-LC as described in this document is 0x03.	
Eu.SCI-LC.PDI.35	Head	**2.2 Communication requirements**	

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ID	Type	Requirement	Func. Pkg.
Eu.SCI-LC.PDI.36	Info	The Communication requirements are described in Eu.Doc.93.	
Eu.SCI-LC.PDI.218	Head	**2.3 Functional requirements**	
Eu.SCI-LC.PDI.219	Info	The functional requirements for SCI-LC are described in Eu.Doc.108.	
Eu.SCI-LC.PDI.37	Head	**3 Telegrams SCI-LC.PDI**	
Eu.SCI-LC.PDI.38	Info	This chapter defines the SCI-LC.PDI telegrams.	Basic LC
Eu.SCI-LC.PDI.39	Head	**3.1 Telegram structure**	
Eu.SCI-LC.PDI.40	Info	The telegram structure is specified in Eu.Doc.93.	Basic LC
Eu.SCI-LC.PDI.41	Head	**3.2 Sender and Receiver Identifier**	
Eu.SCI-LC.PDI.42	Info	The identification of communications partners is specified in Eu.Doc.93.	Basic LC
Eu.SCI-LC.PDI.43	Head	**3.3 Message and command type overview**	
Eu.SCI-LC.PDI.44	Info	The following table shows permitted subsystem specific message types for the SCI-LC.PDI. The permitted generic message types are specified in Eu.Doc.93.	Basic LC Option LOH

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<table>
<tr><th>ID</th><th>Type</th><th>Requirement</th><th>Func. Pkg.</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><th>Message Type</th><th>Value</th><th>Sender</th><th>Receiver</th><th>Purpose</th></tr>
<tr><td>command
Activation</td><td>0x0001</td><td>Subsystem – Electronic Interlocking</td><td>Subsystem – Level Crossing</td><td>Command to activate</td></tr>
<tr><td>command
Deactivation</td><td>0x0002</td><td>Subsystem – Electronic Interlocking</td><td>Subsystem – Level Crossing</td><td>Command to deactivate</td></tr>
<tr><td>command
Local Operation Handover</td><td>0x0014</td><td>Subsystem – Electronic Interlocking</td><td>Subsystem – Level Crossing</td><td>Command to allow or return a handover of local operation to the Local operator according to the handover status.</td></tr>
<tr><td>command
Isolate LC</td><td>0x0006</td><td>Subsystem – Electronic Interlocking</td><td>Subsystem – Level Crossing</td><td>Command to prevent the activated Level Crossing</td></tr>
<tr><td>message
LC Functional Status</td><td>0x0003</td><td>Subsystem – Level Crossing</td><td>Subsystem – Electronic Interlocking</td><td>Report of a changed functional status</td></tr>
<tr><td>message
LC Monitoring Status</td><td>0x0004</td><td>Subsystem – Level Crossing</td><td>Subsystem – Electronic Interlocking</td><td>Report of a changed monitoring status</td></tr>
<tr><td>message
LC Failure Status</td><td>0x0005</td><td>Subsystem – Level Crossing</td><td>Subsystem – Electronic Interlocking</td><td>Report the current failure status</td></tr>
<tr><td>message
Local Operation Handover</td><td>0x0015</td><td>Subsystem – Level Crossing</td><td>Subsystem – Electronic Interlocking</td><td>Report to allow or return a handover of local operation to the Local operator</td></tr>
<tr><td>message
Detection Element Status</td><td>0x0017</td><td>Subsystem – Level Crossing</td><td>Subsystem – Electronic Interlocking</td><td>Report of a changed Detection element status</td></tr>
<tr><td>message
Obstacle Detection Status</td><td>0x0020</td><td>Subsystem – Level Crossing</td><td>Subsystem – Electronic Interlocking</td><td>Report of a changed Obstacle detection status</td></tr>
<tr><td>message
Local Request</td><td>0x0007</td><td>Subsystem – Level Crossing</td><td>Subsystem – Electronic Interlocking</td><td>Report of a local request</td></tr>
</table>
</td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.45</td><td>Head</td><td>3.4 Telegram definitions</td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.46</td><td>Info</td><td>In this chapter, specific telegrams for SCI-LC.PDI are defined. The generic telegrams are defined in Eu.Doc.93.</td><td>Basic LC</td></tr>
</table>

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<table>
<tr><th>ID</th><th>Type</th><th>Requirement</th><th>Func. Pkg.</th></tr>
<tr><td>Eu.SCI-LC.PDI.47</td><td>Head</td><td>3.4.1 Command "Activation"</td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.48</td><td>Info</td><td>With this telegram the Subsystem – Electronic Interlocking commands the Subsystem – Level Crossing to activate.
This telegram refines the InformationFlow “Cd_Activation” specified in the requirements specification (ID Eu.LC.2757).</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.49</td><td>Info</td><td>Telegram definition for command "Activation"

<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x60 (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>Activation type (1 Byte binary)</td></tr></table></td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.50</td><td>Req</td><td>Permitted values for command "Activation":</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.51</td><td>Req</td><td>Message Type
The message bytes 1 - 2 shall be set to 0x0001.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.52</td><td>Req</td><td>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.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.53</td><td>Req</td><td>Receiver Identifier
The message bytes 23 - 42 shall contain the operational identifier of the Subsystem - Level Crossing according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.54</td><td>Req</td><td>Activation type
The message byte 43 shall provide the Activation type. Permitted values are:

value ---------- meaning ----------</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.55</td><td>Req</td><td>0x01 Activation</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.56</td><td>Req</td><td>0x02 Pre-activation</td><td>Basic LC</td></tr>
</table>

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<table>
<tr><th>ID</th><th>Type</th><th>Requirement</th><th>Func. Pkg.</th></tr>
<tr><td>Eu.SCI-LC.PDI.57</td><td>Head</td><td><h2>3.4.2 Command "Deactivation"</h2></td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.58</td><td>Info</td><td>With this telegram the Subsystem – Electronic Interlocking commands the Subsystem – Level Crossing to deactivate.
This telegram refines the InformationFlows “Cd_Deactivation” specified in the requirements specification (ID Eu.LC.2758).</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.59</td><td>Info</td><td>Telegram definition for command "Deactivation"

<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x60 (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></table></td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.60</td><td>Req</td><td>Permitted values for command "Deactivation":</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.61</td><td>Req</td><td>Message Type
The message bytes 1 - 2 shall be set to 0x0002.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.62</td><td>Req</td><td>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.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.63</td><td>Req</td><td>Receiver Identifier
The message bytes 23 - 42 shall contain the operational identifier of the Subsystem - Level Crossing according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.64</td><td>Head</td><td><h2>3.4.3 Command "Local Operation Handover"</h2></td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.65</td><td>Info</td><td>With this telegram the Subsystem – Electronic Interlocking commands the Subsystem – Level Crossing to allow or revoke a handover of local operation to the Local operator according to the handover status.
This telegram refines the InformationFlow “Cd_Local_Operation_Handover” specified in the requirements specification (ID Eu.LC.2760).</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.66</td><td>Info</td><td>Telegram definition for command "Local Operation Handover"</td><td>Option LOH</td></tr>
</table>

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<table>
<tr><th>ID</th><th>Type</th><th>Requirement</th><th>Func. Pkg.</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><th>Byte-Nr.</th><th>Content</th></tr>
<tr><td>00</td><td>Protocol Type: 0x60 (1 Byte binary)</td></tr>
<tr><td>01..02</td><td>Message Type: 0x0014 (2 Bytes binary)</td></tr>
<tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr>
<tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr>
<tr><td>43</td><td>Handover status (1 Byte binary)</td></tr>
<tr><td>44</td><td>Handover index (1 Byte binary)</td></tr>
</table>
</td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.67</td><td>Req</td><td>Permitted values for command "Local Operation Handover":</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.68</td><td>Req</td><td>Message Type
The message bytes 1 - 2 shall be set to 0x0014.</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.69</td><td>Req</td><td>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.</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.70</td><td>Req</td><td>Receiver Identifier
The message bytes 23 - 42 shall contain the operational identifier of the Subsystem - Level Crossing according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.71</td><td>Req</td><td>Handover status
The message byte 43 shall provide the handover or the revoke of the handover to the Local operator. Permitted values are:
value meaning
---------- ----------</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.72</td><td>Req</td><td>0x01 No handover to local operator</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.73</td><td>Req</td><td>0x02 Handover to local operator initiated</td><td>Option LOH</td></tr>
</table>

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<table>
<tr><th>ID</th><th>Type</th><th>Requirement</th><th>Func. Pkg.</th></tr>
<tr><td>Eu.SCI-LC.PDI.74</td><td>Req</td><td>0x03 Handover to local operator established</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.75</td><td>Req</td><td>Handover index
The message byte 44 shall provide the Handover index. Permitted values are:

value meaning
---------- ----------</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.76</td><td>Req</td><td>0x01..0xFE Index of handover (e.g. track)</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.77</td><td>Head</td><td><h3>3.4.4 Command "Isolate LC"</h3></td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.78</td><td>Info</td><td>With this telegram the Subsystem - Electronic Interlocking commands the Subsystem - Level Crossing to prevent activation as a result of maintenance or reconfiguration work which requires deactivation of the Subsystem - Electronic Interlocking. This telegram refines the InformationFlow “Cd_Isolate_LC” specified in the requirements specification (ID Eu.LC.2759).</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.79</td><td>Info</td><td>Telegram definition for command "Isolate LC"

<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x60 (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>Isolation command (1 Byte binary)</td></tr></table></td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.80</td><td>Req</td><td>Permitted values for command "Isolate LC":</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.81</td><td>Req</td><td>Message Type
The message bytes 1 - 2 shall be set to 0x0006.</td><td>Basic LC</td></tr>
</table>

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<table>
<tr><th>ID</th><th>Type</th><th>Requirement</th><th>Func. Pkg.</th></tr>
<tr><td>Eu.SCI-LC.PDI.82</td><td>Req</td><td>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.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.83</td><td>Req</td><td>Receiver Identifier
The message bytes 23 - 42 shall contain the operational identifier of the Subsystem - Level Crossing according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.84</td><td>Req</td><td>Isolation command
The message byte 43 shall enable or disable isolation of the Subsystem - Level Crossing. Permitted values are:
value meaning
---------- ----------</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.85</td><td>Req</td><td>0x01 Enable isolation of the level crossing</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.86</td><td>Req</td><td>0x02 Disable isolation of the level crossing</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.87</td><td>Head</td><td><h3>3.4.5 Message "LC Functional Status"</h3></td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.88</td><td>Info</td><td>With this telegram the Subsystem – Level Crossing reports to the Subsystem – Electronic Interlocking a changed functional status.
This telegram refines the InformationFlow “Msg_LC_Functional_Status” specified in the requirements specification (ID Eu.LC.2763).</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.89</td><td>Info</td><td>Telegram definition for message "LC Functional Status"
<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x60 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0003 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43</td><td>Activation status (1 Byte binary)</td></tr></table></td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.90</td><td>Req</td><td>Permitted values for message "LC Functional Status":</td><td>Basic LC</td></tr>
</table>

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ID	Type	Requirement	Func. Pkg.
Eu.SCI-LC.PDI.91	Req	**Message Type** The message bytes 1 - 2 shall be set to 0x0003.	Basic LC
Eu.SCI-LC.PDI.92	Req	**Sender Identifier** The message bytes 3 - 22 shall contain the operational identifier of the Subsystem - Level Crossing according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Basic LC
Eu.SCI-LC.PDI.93	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 LC
Eu.SCI-LC.PDI.94	Req	**Activation status** The message byte 43 shall provide the Activation status. Permitted values are: value ---------- meaning ---------- ----------	Basic LC
Eu.SCI-LC.PDI.95	Req	0x01 Deactivated and Unprotected	Basic LC
Eu.SCI-LC.PDI.96	Req	0x02 Activated and Unprotected	Basic LC
Eu.SCI-LC.PDI.97	Req	0x03 Activated and Protected	Basic LC
Eu.SCI-LC.PDI.98	Req	0x04 Pre-activated	Basic LC
Eu.SCI-LC.PDI.99	Req	0x05 Isolated LC	Basic LC
Eu.SCI-LC.PDI.100	Head	**3.4.6 Message "LC Monitoring Status"**	
Eu.SCI-LC.PDI.101	Info	With this telegram the Subsystem – Level Crossing reports to the Subsystem – Electronic Interlocking a changed status of the LC protection facility. This telegram refines the InformationFlow "Msg_LC_Monitoring_Status" specified in the requirements specification (ID Eu.LC.2764).	Basic LC
Eu.SCI-LC.PDI.102	Info	Telegram definition for message "LC Monitoring Status"	Basic LC

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<table>
<tr><th>ID</th><th>Type</th><th>Requirement</th><th>Func. Pkg.</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><th>Byte-Nr.</th><th>Content</th></tr>
<tr><td>00</td><td>Protocol Type: 0x60 (1 Byte binary)</td></tr>
<tr><td>01..02</td><td>Message Type: 0x0004 (2 Bytes binary)</td></tr>
<tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr>
<tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr>
<tr><td>43</td><td>Barrier position (1 Byte binary)</td></tr>
<tr><td>44</td><td>Barrier movement (1 Byte binary)</td></tr>
<tr><td>45</td><td>Road lights status (1 Byte binary)</td></tr>
<tr><td>46</td><td>Timer overrun (1 Byte binary)</td></tr>
<tr><td>47</td><td>Hardware status (1 Byte binary)</td></tr>
<tr><td>48</td><td>Power supply status (1 Byte binary)</td></tr>
<tr><td>49</td><td>Barrier intact (1 Byte binary)</td></tr>
</table>
</td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.103</td><td>Req</td><td>Permitted values for message "LC Monitoring Status":</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.104</td><td>Req</td><td>Message Type
The message bytes 1 - 2 shall be set to 0x0004.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.105</td><td>Req</td><td>Sender Identifier
The message bytes 3 - 22 shall contain the operational identifier of the Subsystem - Level Crossing according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.106</td><td>Req</td><td>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.</td><td>Basic LC</td></tr>
</table>

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ID	Type	Requirement	Func. Pkg.
Eu.SCI-LC.PDI.107	Req	**Barrier position** The message byte 43 shall provide the Barrier position. Permitted values are: value ---------- meaning ---------- ----------	Basic LC
Eu.SCI-LC.PDI.108	Req	0x01 End position at the top	Basic LC
Eu.SCI-LC.PDI.109	Req	0x02 End position at the bottom	Basic LC
Eu.SCI-LC.PDI.110	Req	0x03 No End position	Basic LC
Eu.SCI-LC.PDI.111	Req	0xFF Barrier position is not applicable	Basic LC
Eu.SCI-LC.PDI.112	Info	If the Subsystem – Level Crossing is not configured to have information on the barrier position, the value 0xFF can be used.	Basic LC
Eu.SCI-LC.PDI.113	Req	**Barrier movement** The message byte 44 shall provide the Barrier movement. Permitted values are: value ---------- meaning ---------- ----------	Basic LC
Eu.SCI-LC.PDI.114	Req	0x01 Barrier movement downwards	Basic LC
Eu.SCI-LC.PDI.115	Req	0X02 Barrier movement upwards	Basic LC
Eu.SCI-LC.PDI.116	Req	0x03 No movement	Basic LC
Eu.SCI-LC.PDI.117	Req	0xFF Barrier movement is not applicable	Basic LC
Eu.SCI-LC.PDI.118	Info	If the Subsystem – Level Crossing is not configured to have information on the barrier movement, the value 0xFF can be used.	Basic LC
Eu.SCI-LC.PDI.119	Req	**Road lights status** The message byte 45 shall provide the Road lights status. Permitted values are: value ---------- meaning ---------- ----------	Basic LC
Eu.SCI-LC.PDI.120	Req	0x01 Road lights off	Basic LC

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ID	Type	Requirement	Func. Pkg.
Eu.SCI-LC.PDI.121	Req	0X02 Road lights on	Basic LC
Eu.SCI-LC.PDI.122	Req	0xFF Road lights status is not applicable	Basic LC
Eu.SCI-LC.PDI.123	Info	If the Subsystem – Level Crossing is not configured to have information on the road lights status, the value 0xFF can be used.	Basic LC
Eu.SCI-LC.PDI.124	Req	**Timer overrun** The message byte 46 shall provide the occurred Closure timer overrun. Permitted values are: value meaning ---------- ----------	Basic LC
Eu.SCI-LC.PDI.125	Req	0x01 No Closure timer overrun	Basic LC
Eu.SCI-LC.PDI.126	Req	0x02 Closure timer overrun occurred	Basic LC
Eu.SCI-LC.PDI.127	Req	0xFF Timer overrun is not applicable	Basic LC
Eu.SCI-LC.PDI.128	Info	If the Subsystem – Level Crossing is not configured to have information on the timer overrun, the value 0xFF can be used.	Basic LC
Eu.SCI-LC.PDI.129	Req	**Hardware status** The message byte 47 shall provide the Hardware status of half Barriers due to short level crossing activation time. Permitted values are: value meaning ---------- ----------	Basic LC
Eu.SCI-LC.PDI.130	Req	0x01 Hardware status is correct	Basic LC
Eu.SCI-LC.PDI.131	Req	0x02 Hardware status is not correct	Basic LC
Eu.SCI-LC.PDI.132	Req	0xFF Hardware status is not applicable	Basic LC
Eu.SCI-LC.PDI.133	Info	When the Subsystem – Level Crossing is not configured to have information on the hardware status, the value 0xFF can be used.	Basic LC

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ID	Type	Requirement	Func. Pkg.
Eu.SCI-LC.PDI.134	Req	**Power supply status** The message byte 48 shall provide the Power supply status. Permitted values are: value ---------- meaning ---------- 0x01 Power supply is working correctly 0X02 Power supply is not fully available 0xFF Power supply status is not applicable	Basic LC
Eu.SCI-LC.PDI.135	Req	0x01 Power supply is working correctly	Basic LC
Eu.SCI-LC.PDI.136	Req	0X02 Power supply is not fully available	Basic LC
Eu.SCI-LC.PDI.137	Req	0xFF Power supply status is not applicable	Basic LC
Eu.SCI-LC.PDI.138	Info	If the Subsystem – Level Crossing is not configured to have information on the power supply status, the value 0xFF can be used.	Basic LC
Eu.SCI-LC.PDI.208	Req	**Barrier intact status** The message byte 49 shall provide the Barrier intact status. Permitted values are: value ---------- meaning ---------- 0x01 intact 0x0F not intact 0xFF Barrier intact is not applicable	Basic LC
Eu.SCI-LC.PDI.209	Req	0x01 intact	Basic LC
Eu.SCI-LC.PDI.211	Req	0x0F not intact	Basic LC
Eu.SCI-LC.PDI.210	Req	0xFF Barrier intact is not applicable	Basic LC
Eu.SCI-LC.PDI.139	Head	**3.4.7 Message "LC Failure Status"**	
Eu.SCI-LC.PDI.140	Info	With this telegram the Subsystem – Level Crossing reports to the Subsystem – Electronic Interlocking the presence of failures. This telegram refines the InformationFlow “Msg_LC_Failure_Status” specified in the requirements specification (ID Eu.LC.2762).	Basic LC
Eu.SCI-LC.PDI.141	Info	Telegram definition for message "LC Failure Status"	Basic LC

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<table>
<tr><th>ID</th><th>Type</th><th>Requirement</th><th>Func. Pkg.</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><th>Byte-Nr.</th><th>Content</th></tr>
<tr><td>00</td><td>Protocol Type: 0x60 (1 Byte binary)</td></tr>
<tr><td>01..02</td><td>Message Type: 0x0005 (2 Bytes binary)</td></tr>
<tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr>
<tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr>
<tr><td>43</td><td>Non critical failure status (1 Byte binary)</td></tr>
<tr><td>44</td><td>Critical failure status (1 Byte binary)</td></tr>
</table>
</td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.142</td><td>Req</td><td>Permitted values for message "LC Failure Status":</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.143</td><td>Req</td><td>Message Type
The message bytes 1 - 2 shall be set to 0x0005.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.144</td><td>Req</td><td>Sender Identifier
The message bytes 3 - 22 shall contain the operational identifier of the Subsystem - Level Crossing according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.145</td><td>Req</td><td>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.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.146</td><td>Req</td><td>Non critical failure status
The message byte 43 shall provide the non critical failure status. Permitted values are:
value meaning
---------- ----------</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.147</td><td>Req</td><td>0x01 A non critical failure is present</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.148</td><td>Req</td><td>0x02 No non critical failure is present</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.151</td><td>Req</td><td>Critical failure status
The message byte 44 shall provide the Critical failure status. Permitted values are:
value meaning
---------- ----------</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.152</td><td>Req</td><td>0x01 A critical failure is present</td><td>Basic LC</td></tr>
</table>

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<table>
<tr><th>ID</th><th>Type</th><th>Requirement</th><th>Func. Pkg.</th></tr>
<tr><td>Eu.SCI-LC.PDI.153</td><td>Req</td><td>0x02 No critical failure is present</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.156</td><td>Head</td><td>3.4.8 Message "Local Operation Handover"</td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.157</td><td>Info</td><td>With this telegram the Subsystem – Level Crossing reports to the Subsystem – Electronic Interlocking the input to allow or return a handover of local operation to the Local operator.
This telegram refines the InformationFlow “Msg_Local_Operation_Handover” specified in the requirements specification (ID Eu.LC.2765).</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.158</td><td>Info</td><td>Telegram definition for message "Local Operation Handover":
<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x60 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0015 (2 Bytes binary)</td></tr><tr><td>03..22</td><td>Sender Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>23..42</td><td>Receiver Identifier (20 Bytes ISO IEC 8859-1:1998)</td></tr><tr><td>43</td><td>Handover (1 Byte binary)</td></tr><tr><td>44</td><td>Handover index (1 Byte binary)</td></tr></table></td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.159</td><td>Req</td><td>Permitted values for message "Local Operation Handover":</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.160</td><td>Req</td><td>Message Type
The message bytes 1 - 2 shall be set to 0x0015.</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.161</td><td>Req</td><td>Sender Identifier
The message bytes 3 - 22 shall contain the operational identifier of the Subsystem - Level Crossing according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.162</td><td>Req</td><td>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.</td><td>Option LOH</td></tr>
</table>

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<table>
<tr><th>ID</th><th>Type</th><th>Requirement</th><th>Func. Pkg.</th></tr>
<tr><td>Eu.SCI-LC.PDI.163</td><td>Req</td><td>Handover
The message byte 43 shall provide the handover or the return of the handover to the Local operator. Permitted values are:
value meaning
---------- ----------</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.164</td><td>Req</td><td>0x01 Allow handover to local operator</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.165</td><td>Req</td><td>0x02 Return handover from local operator</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.166</td><td>Req</td><td>Handover index
The message byte 44 shall provide the Handover index. Permitted values are:
value meaning
---------- ----------</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.167</td><td>Req</td><td>0x01..0xFE Index of handover (e.g. track)</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.168</td><td>Head</td><td>3.4.9 Message "Detection Element Status"</td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.169</td><td>Info</td><td>With this telegram the Subsystem – Level Crossing reports to the Subsystem – Electronic Interlocking the changed status of the Detection elements.
This telegram refines the InformationFlow “Msg_Detection_Element_Status” specified in the requirements specification (ID Eu.LC.2761).</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.170</td><td>Info</td><td>Telegram definition for message "Detection Element Status":
<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x60 (1 Byte binary)</td></tr><tr><td>01..02</td><td>Message Type: 0x0017 (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>Number k of following Detection Elements (1 Byte binary)</td></tr><tr><td>44..44+k-1</td><td>Status of Detection Element n (each 1 Byte binary) (1 <= n <= k)</td></tr></table></td><td>Basic LC</td></tr>
</table>

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ID	Type	Requirement	Func. Pkg.
Eu.SCI-LC.PDI.171	Req	Permitted values for message "Detection Element Status":	Basic LC
Eu.SCI-LC.PDI.172	Req	**Message Type** The message bytes 1 - 2 shall be set to 0x0017.	Basic LC
Eu.SCI-LC.PDI.173	Req	**Sender Identifier** The message bytes 3 - 22 shall contain the operational identifier of the Subsystem - Level Crossing according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.	Basic LC
Eu.SCI-LC.PDI.174	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 LC
Eu.SCI-LC.PDI.175	Req	**Number k of following Detection Elements** The message byte 43 shall contains the number k of below-given statuses for Detection Elements, transmitted in single bytes. As a maximum, 32 Detection Elements can be configured, therefore, the highest permitted value for byte 43 is 0x20.	Basic LC
Eu.SCI-LC.PDI.176	Req	**Detection Element Status** The message bytes 44..44+k-1 (1 <= n <= k) contain the current states of the particular Detection Element n. Permitted values are: value ---------- meaning ---------- ----------	Basic LC
Eu.SCI-LC.PDI.177	Req	0x01 Detection element is vacant	Basic LC
Eu.SCI-LC.PDI.178	Req	0x02 Detection element is occupied	Basic LC
Eu.SCI-LC.PDI.179	Req	0x03 Detection element is failed	Basic LC
Eu.SCI-LC.PDI.180	Head	**3.4.10 Message "Obstacle Detection Status"**	
Eu.SCI-LC.PDI.181	Info	With this telegram the Subsystem – Level Crossing reports to the Subsystem – Electronic Interlocking the changed status of the Obstacle detection. This telegram refines the InformationFlow “Msg_Obstacle_Detection_Status” specified in the requirements specification (ID Eu.LC.2767).	Basic LC
Eu.SCI-LC.PDI.182	Info	Telegram definition for message "Obstacle Detection Status":	Basic LC

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<table>
<tr><th>ID</th><th>Type</th><th>Requirement</th><th>Func. Pkg.</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><th>Byte-Nr.</th><th>Content</th></tr>
<tr><td>00</td><td>Protocol Type: 0x60 (1 Byte binary)</td></tr>
<tr><td>01..02</td><td>Message Type: 0x0020 (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>Obstacle detection (1 Byte binary)</td></tr>
</table>
</td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.183</td><td>Req</td><td>Permitted values for message "Obstacle Detection Status":</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.184</td><td>Req</td><td>Message Type
The message bytes 1 - 2 shall be set to 0x0020.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.185</td><td>Req</td><td>Sender Identifier
The message bytes 3 - 22 shall contain the operational identifier of the Subsystem - Level Crossing according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.186</td><td>Req</td><td>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.</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.187</td><td>Req</td><td>Obstacle detection
The message byte 43 shall provide the detected Obstacle in the conflict area. Permitted values are:
value meaning
---------- ----------</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.188</td><td>Req</td><td>0x01 No obstacle in the conflict area</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.189</td><td>Req</td><td>0x02 Obstacle detected in the conflict area</td><td>Basic LC</td></tr>
<tr><td>Eu.SCI-LC.PDI.192</td><td>Head</td><td><h3>3.4.11 Message "Local Request"</h3></td><td></td></tr>
<tr><td>Eu.SCI-LC.PDI.193</td><td>Info</td><td>With this telegram the Subsystem – Level Crossing reports to the Subsystem – Electronic Interlocking the presence of a local request. This telegram refines the InformationFlow “Msg_Local_Request” specified in the requirements specification (ID Eu.LC.2766).</td><td>Option LOH</td></tr>
</table>

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<table>
<tr><th>ID</th><th>Type</th><th>Requirement</th><th>Func. Pkg.</th></tr>
<tr><td>Eu.SCI-LC.PDI.194</td><td>Info</td><td>Telegram definition for message "Local Request":
<table><tr><th>Byte-Nr.</th><th>Content</th></tr><tr><td>00</td><td>Protocol Type: 0x60 (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>Local request (1 Byte binary)</td></tr><tr><td>44</td><td>Request index (1 Byte binary)</td></tr></table></td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.195</td><td>Req</td><td>Permitted values for message "Local Request":</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.196</td><td>Req</td><td>Message Type
The message bytes 1 - 2 shall be set to 0x0007.</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.197</td><td>Req</td><td>Sender Identifier
The message bytes 3 - 22 shall contain the operational identifier of the Subsystem - Level Crossing according to ID Eu.SCI-XX.PDI.59 in ISO IEC 8859-1:1998 format.</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.198</td><td>Req</td><td>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.</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.199</td><td>Req</td><td>Local request
The message byte 43 shall provide the local request. Permitted values are:
value meaning
---------- ----------</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.200</td><td>Req</td><td>0x01 Local request to activate the level crossing</td><td>Option LOH</td></tr>
<tr><td>Eu.SCI-LC.PDI.201</td><td>Req</td><td>0x02 Local request to deactivate the level crossing</td><td>Option LOH</td></tr>
</table>

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ID	Type	Requirement	Func. Pkg.
Eu.SCI-LC.PDI.202	Req	**Request index** The message byte 44 shall provide the Request index. Permitted values are: value meaning ---------- ----------	Option LOH
Eu.SCI-LC.PDI.203	Req	0x01..0xFE Index of request (e.g. track)	Option LOH

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