EULYNX Initiative

Europe's Rail Joint Undertaking

# Interface specification SDI-LS

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Version: 4.3 (2.A)

# Contents

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| Eu.SDI-LS.2 | Head | **1.1 Release information** | | | | | | | | |
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| Eu.SDI-LS.7 | Head | **1.2 Impressum** | | | | | | | | |
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| ID | Type | Requirement | Meaning | Model Type | Data Type | Trigger | Attribute Type | Sampling | Optionality | Func. Pkg. |
|---|---|---|---|---|---|---|---|---|---|---|
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| Eu.SDI-LS.11 | Head | **1.3 Purpose** | | | | | | | | |
| Eu.SDI-LS.12 | Info | This document specifies the diagnostic messages (data point IDs and values) as parts of the telegram contents of the standardised diagnosis interface for a communication between the Subsystem - Maintenance and Data Management and Subsystem – Light Signal (SDI-LS). | | | | | | | | |
| Eu.SDI-LS.31 | Info | This document contains the Subsystem - Light Signal specific diagnostic messages. The specifications defined in this document shall be complemented by the generic specification defined in Interface specification SDI Generic [Eu.Doc.94]. | | | | | | | | |
| Eu.SDI-LS.33 | 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.SDI-LS.14 | Info | This document is intended for the following users:<br>• safety authorities<br>• infrastructure managers<br>• safety assessors<br>• signalling system suppliers<br>• validators | | | | | | | | |
| Eu.SDI-LS.227 | 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.SDI-LS.15 | Head | **1.4 Applicable standards and regulations** | | | | | | | | |
| Eu.SDI-LS.16 | Info | The applicable standards and regulations used in EULYNX are listed in the EULYNX Reference Document List [Eu.Doc.12]. | | | | | | | | |
| Eu.SDI-LS.34 | Info | The references listed in the EULYNX Reference Document List [Eu.Doc.12] shall be considered where they are indicated as being applicable to SDI in the "Applies to" column of the EULYNX Reference Document List [Eu.Doc.12]. | | | | | | | | |
| Eu.SDI-LS.17 | Head | **1.5 Applicable documents** | | | | | | | | |
| Eu.SDI-LS.18 | 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.SDI-LS.19 | Head | **1.6 Appendices** | | | | | | | | |
| Eu.SDI-LS.20 | Info | *- intentionally left blank -* | | | | | | | | |
| Eu.SDI-LS.21 | Head | **1.7 Terms and abbreviations** | | | | | | | | |
| Eu.SDI-LS.22 | Info | The terms and abbreviations are listed in the EULYNX Glossary [Eu.Doc.9]. | | | | | | | | |
| Eu.SDI-LS.23 | Head | **1.8 Variability management** | | | | | | | | |
| Eu.SDI-LS.24 | Info | This document describes harmonised requirements. Variability management is not applicable. | | | | | | | | |
| Eu.SDI-LS.25 | Head | **1.9 Definition of object types** | | | | | | | | |
| Eu.SDI-LS.26 | Info | The following definition for object types is applied in this document: | | | | | | | | |
| Eu.SDI-LS.27 | Info | • "Req" - This denotes a mandatory requirement. | | | | | | | | |
| Eu.SDI-LS.28 | Info | • "Info" - This denotes additional information to help understand the specification. These objects do not specify any additional requirements. | | | | | | | | |
| Eu.SDI-LS.29 | Info | • "Head" - This denotes chapter headings. | | | | | | | | |
| Eu.SDI-LS.37 | Head | **2 Telegram SDI** | | | | | | | | Basic LS |
| Eu.SDI-LS.224 | Req | All references to [Eu.Doc.94] refer to Interface specification SDI Generic version 4.3. | | | | | | | | Basic LS |
| Eu.SDI-LS.341 | Req | The version number of the OPC UA Information model as described in this document is 1.1.0. | | | | | | | | Basic LS |
| Eu.SDI-LS.38 | Info | This chapter defines the diagnostic messages - specifically the data points and values applied in the SDI-LS telegrams. The generic data points are defined in [Eu.Doc.94]. | | | | | | | | Basic LS |
| Eu.SDI-LS.223 | Info | The defined diagnostic messages are mandatory only when the physical interfaces related to the specific diagnostic message are available on the Subsystem – Light Signal. | | | | | | | | Basic LS |
| Eu.SDI-LS.230 | Head | **2.1 Definition of columns** | | | | | | | | |

| ID | Type | Requirement | Meaning | Model Type | Data Type | Trigger | Attribute Type | Sampling | Optionality | Func. Pkg. |
|---|---|---|---|---|---|---|---|---|---|---|
| Eu.SDI-LS.231 | Info | **Model Type:** Column that marks whether an entry is a model class (Class), a diagnostic data point (Attribute), an enumeration header (ValueType (Enumeration)) or an enumeration value (Enumeration Literal). | | | | | | | | Basic LS |
| Eu.SDI-LS.232 | Info | **Data Type:** Column that indicates the data type for the diagnostic data points. Enumeration values are defined in the section 'Enumeration'. | | | | | | | | Basic LS |
| Eu.SDI-LS.233 | Info | **Trigger:** Column that indicates the precision of data that shall be provided by the back-end to the OPC UA server [OPC] on a subsystem. It represents the minimum level of change of the measures or reported value that shall trigger an update of the data point on the OPC UA server. For discrete data types (Boolean, enumeration, string), any change shall trigger an update on the OPC UA server. This is expressed as 'current value' in the column. For data that is part of an event class, the value 'on event' is used. | | | | | | | | Basic LS |
| Eu.SDI-LS.234 | Info | **Attribute Type:** Column that indicates the type of diagnostic information contained in the data point. Values are:<br>**raw data**: uninterpreted data that is measured.<br>**diagnosis**: an attribute with discrete values (enumeration or Boolean) that interprets the status of a system. There must be a table that directly links diagnostic enumeration values to statusTechnical values of that system.<br>**configuration**: data that is not measured but often set by the manufacturer or operator; it describes characteristics of the system.<br>**counter:** diagnostic information that counts occurrences of a specific data measurement or event. | | | | | | | | Basic LS |
| Eu.SDI-LS.337 | Info | **Sampling:** Column that indicates the required sampling interval of the data point, that is how often the OPC UA Server determines the values for an attribute, provided by the back-end. Value in milliseconds. | | | | | | | | Basic LS |
| Eu.SDI-LS.235 | Info | **Optionality:** Column that indicates whether a diagnostic data point is mandatory inside the model class, or optional. The diagnostic data of optional attributes may be required by national specifications. If an equipment or subsystem has the capability to collect and report the related diagnostic data, it must be reported in this data point.<br>Note: In future phases of the System Pillar, national specifications will be replaced by harmonised specifications. | | | | | | | | Basic LS |
| Eu.SDI-LS.39 | Head | **2.2 Telegrams SDI-LS** | | | | | | | | |
| Eu.SDI-LS.236 | Req | LightPoint | LightPoint denotes the entire installed unit in the signal screen, which consists of optics, lamps and other associated electronic elements. | Class | | | | | | Basic LS |
| Eu.SDI-LS.237 | Req | counterLightDurationDay | Total illumination time of the light point in Day mode since the last reset in seconds. The counter must also be reset when the physical device that implements the LightPoint is replaced. | Attribute | counterLightDurationDay : Long | >= 3600s | counter | 1000 | Mandatory | Basic LS |
| Eu.SDI-LS.238 | Req | counterLightDurationNight | Total illumination time of the light point in Night mode since the last reset in seconds. The counter must also be reset when the physical device that implements the LightPoint is replaced. | Attribute | counterLightDurationNight : Long | >= 3600s | counter | 1000 | Mandatory | Basic LS |
| Eu.SDI-LS.240 | Req | statusTechnical | Indicates the generic technical status of the light Point. Note: Enumeration values defined in in Interface specification SDI Generic [Eu.Doc.94]. | Attribute | statusTechnical : StatusTechnical | Current value | diagnosis | 1000 | Mandatory | Basic LS |
| Eu.SDI-LS.241 | Req | statusTechnicalManufacturerSpecificMessage | Must be used by the supplier to describe the reasons for a StatusTechnical != OK, that cannot be explained by existing datapoints (NOT including IM and manufacturer specific diagnostic messages).<br>This Information MUST be provided from the supplier. This should provide flexibility for future uses. Multiple states can be indicated at the same time if multiple diagnosis have not been included in the model during the design phase. The supplier specific reason may not overlap with reasons already covered in other attributes. | Attribute | statusTechnicalManufacturerSpecificMessage : MultiStateDiscreteTypeSupplier | Current value | diagnosis | 1000 | Optional | Basic LS |
| Eu.SDI-LS.298 | Req | logicalLightPointStatus | Current logical status of the light point. | Attribute | logicalLightPointStatus : LogicalLightPointStatus | Current value | diagnosis | 250 | Mandatory | Basic LS |
| Eu.SDI-LS.320 | Req | label | It is assigned to all classes representing physically identifiable entities. This string, corresponding to a physically identifiable label, facilitates consistent reference between the physical entities in the field and their digital representations within the model. | Attribute | label : String | Current value | configuration | 1000 | Optional | Basic LS |
| Eu.SDI-LS.242 | Req | LightPointMatrix | Matrix display for displaying a letter or a number. | Class | | | | | | Basic LS |
| Eu.SDI-LS.244 | Req | valueCurrent | The displayed value, e.g. a letter for the direction or the speed. If no value is displayed, "none" must be transmitted. | Attribute | valueCurrent : String | Current value | diagnosis | 250 | Mandatory | Basic LS |
| Eu.SDI-LS.245 | Req | LightPointSingleFilament | Filament of a conventional lamp. | Class | | | | | | Basic LS |
| Eu.SDI-LS.246 | Req | filamentStatus | Status of the lamp filament. | Attribute | filamentStatus : FilamentStatus | Current value | diagnosis | 1000 | Mandatory | Basic LS |
| Eu.SDI-LS.247 | Req | role | Describes whether a filament is main or auxiliary. | Attribute | role : LampWireRole | Current value | configuration | 1000 | Mandatory | Basic LS |
| Eu.SDI-LS.248 | Req | LightPointSingleLamp | Lamp with conventional filaments. | Class | | | | | | Basic LS |
| Eu.SDI-LS.249 | Req | LightPointSingleLED | Light point LED (Light Emitting Diode): LightPointSingleLED shall be used for single LightPoints consisting of several LEDs. | Class | | | | | | Basic LS |
| Eu.SDI-LS.250 | Req | degenerationGrade | The degree of degeneration of the light point in %. 100% means: all LEDs failed; 0% means: no LED failed. | Attribute | degenerationGrade : Real | 1% | diagnosis | 1000 | Mandatory | Basic LS |

| ID | Type | Requirement | Meaning | Model Type | Data Type | Trigger | Attribute Type | Sampling | Optionality | Func. Pkg. |
|---|---|---|---|---|---|---|---|---|---|---|
| Eu.SDI-LS.251 | Req | isElectronicFailure | True: There is a failure in the electronics of the light point. | Attribute | isElectronicFailure : Boolean | Current value | diagnosis | 1000 | Mandatory | Basic LS |
| Eu.SDI-LS.252 | Req | numberOfDefectLEDs | Number of defective LEDs in the light point. | Attribute | numberOfDefectLEDs : Integer | Current value | raw data | 1000 | Optional | Basic LS |
| Eu.SDI-LS.253 | Req | pNumberOfLEDs | Total number of LEDs in the light point. | Attribute | pNumberOfLEDs : Integer | Current value | configuration | 1000 | Optional | Basic LS |
| Eu.SDI-LS.254 | Req | LightSignal | The class represents the Subsystem - Light Signal. | Class | | | | | | Basic LS |
| Eu.SDI-LS.255 | Req | isLuminosityChangeable | True: Luminosity is changeable. | Attribute | isLuminosityChangeable : Boolean | Current value | configuration | 1000 | Mandatory | Basic LS |
| Eu.SDI-LS.256 | Req | luminosityCommanded | Reports the luminosity currently commanded by the electronic interlocking. | Attribute | luminosityCommanded : NightDay | Current value | diagnosis | 250 | Mandatory | Basic LS |
| Eu.SDI-LS.257 | Req | luminosityCurrent | Reports the currently indicated luminosity. | Attribute | luminosityCurrent : NightDay | Current value | diagnosis | 250 | Mandatory | Basic LS |
| Eu.SDI-LS.258 | Req | operationalIdentifier | Operational identifier of the connected subsystem (see Eu.SAS.1784 in [Eu.Doc.16]). | Attribute | operationalIdentifier : Byte [20] | Current value | configuration | 1000 | Mandatory | Basic LS |
| Eu.SDI-LS.259 | Req | signalInformationAdditionalCommanded | Reports the additional signal information currently commanded by the electronic interlocking. Corresponds to Bytes 49 until 60 of the telegram Cd_Indicate_Signal_Aspect. | Attribute | signalInformationAdditionalCommanded : Byte [12] | Current value | diagnosis | 250 | Mandatory | Basic LS |
| Eu.SDI-LS.260 | Req | signalInformationAdditionalCurrent | Reports the additional signal information currently indicated by the light signal. Corresponds to Bytes 49 until 60 of the telegram Msg_Indicated_Signal_Aspect. | Attribute | signalInformationAdditionalCurrent : Byte [12] | Current value | diagnosis | 250 | Mandatory | Basic LS |
| Eu.SDI-LS.261 | Req | signalVectorCommanded | Reports the signal aspect currently commanded by the electronic interlocking. Corresponds to bytes 43 until 48 of the telegram Cd_Indicate_Signal_Aspect. | Attribute | signalVectorCommanded : Byte [6] | Current value | diagnosis | 250 | Mandatory | Basic LS |
| Eu.SDI-LS.262 | Req | signalVectorCurrent | Reports the signal aspect currently indicated by the light signal. Corresponds to Bytes 43 until 48 of the telegram Msg_Indicated_Signal_Aspect. | Attribute | signalVectorCurrent : Byte [6] | Current value | diagnosis | 250 | Mandatory | Basic LS |
| Eu.SDI-LS.321 | Req | label | It is assigned to all classes representing physically identifiable entities. This string, corresponding to a physically identifiable label, facilitates consistent reference between the physical entities in the field and their digital representations within the model. | Attribute | label : String | Current value | configuration | 1000 | Optional | Basic LS |
| Eu.SDI-LS.264 | Req | LightSignalAdjacentOutputChannel | Output channel to the adjacent system Eurobalise or Legacy train protection system. | Class | | | | | | Option LS4<br>Option LS5 |
| Eu.SDI-LS.265 | Req | interfaceConnectionStatus | Indicates the connection status of the interface to the light signal adjacent system. | Attribute | interfaceConnectionStatus : InterfaceConnectionStatus | Current value | diagnosis | 1000 | Optional | Option LS4 |
| Eu.SDI-LS.266 | Req | statusTechnical | Indicates the generic technical status of the output channel to the adjacent system. Note: Enumeration values defined in Interface specification SDI Generic [Eu.Doc.94]. | Attribute | statusTechnical : StatusTechnical | Current value | diagnosis | 1000 | Mandatory | Option LS4<br>Option LS5 |
| Eu.SDI-LS.267 | Req | statusTechnicalManufacturerSpecificMessage | Must be used by the supplier to describe the reasons for a StatusTechnical != OK, that cannot be explained by existing datapoints (NOT including IM and manufacturer specific diagnostic messages).<br>This Information MUST be provided from the supplier. This should provide flexibility for future uses. Multiple states can be indicated at the same time if multiple diagnosis have not been included in the model during the design phase. The supplier specific reason may not overlap with reasons already covered in other attributes. | Attribute | statusTechnicalManufacturerSpecificMessage : MultiStateDiscreteTypeSupplier | Current value | diagnosis | 1000 | Optional | Option LS4<br>Option LS5 |
| Eu.SDI-LS.322 | Req | label | It is assigned to all classes representing physically identifiable entities. This string, corresponding to a physically identifiable label, facilitates consistent reference between the physical entities in the field and their digital representations within the model. | Attribute | label : String | Current value | configuration | 1000 | Optional | Option LS4<br>Option LS5 |
| Eu.SDI-LS.268 | Req | LightSignalAdjacentTrainControlElements | Representation of the adjacent system. | Class | | | | | | Option LS4<br>Option LS5 |
| Eu.SDI-LS.269 | Req | trainProtectionName | Name of the Legacy Train Protection System. | Attribute | trainProtectionName : String | Current value | configuration | 1000 | Optional | Option LS5 |
| Eu.SDI-LS.270 | Req | type | Describes whether the adjacent system is a Eurobalise or a Legacy Train Protection System. | Attribute | type : LightSignalAdjacentTrainControlSystem | Current value | configuration | 1000 | Mandatory | Option LS4<br>Option LS5 |
| Eu.SDI-LS.293 | Req | Indicator | A switchable frame that shows supplementary aspect information to a signal (for example route indicator, platform indicator). | Class | | | | | | Basic LS |
| Eu.SDI-LS.295 | Req | indicatorStatus | Current status of the indicator. | Attribute | indicatorStatus : IndicatorStatus | Current value | diagnosis | 250 | Mandatory | Basic LS |
| Eu.SDI-LS.319 | Req | label | It is assigned to all classes representing physically identifiable entities. This string, corresponding to a physically identifiable label, facilitates consistent reference between the physical entities in the field and their digital representations within the model. | Attribute | label : String | Current value | configuration | 1000 | Optional | Basic LS |
| Eu.SDI-LS.271 | Head | **2.2.1 Enumeration** | | | | | | | | |

| ID | Type | Requirement | Meaning | Model Type | Data Type | Trigger | Attribute Type | Sampling | Optionality | Func. Pkg. |
|---|---|---|---|---|---|---|---|---|---|---|
| Eu.SDI-LS.272 | Req | FilamentStatus | Enumeration: Status of the filament | ValueType (Enumeration) | | | | | | Basic LS |
| Eu.SDI-LS.275 | Req | Unknown | 0: The status unknown is used when the state is not yet established e.g. if connection to the system is lost | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.274 | Req | Ok | 1: Functioning according to specifications | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.273 | Req | Failure | 2: Not functioning | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.276 | Req | InterfaceConnectionStatus | Enumeration: Status of the output channel forming the interface connection to the adjacent system | ValueType (Enumeration) | | | | | | Option LS4 |
| Eu.SDI-LS.280 | Req | Unknown | 0: The status unknown is used when the state is not yet established e.g. if connection to the system is lost | Enumeration Literal | | | | | | Option LS4 |
| Eu.SDI-LS.277 | Req | Ok | 1: Functioning according to specifications | Enumeration Literal | | | | | | Option LS4 |
| Eu.SDI-LS.279 | Req | ShortCircuit | 2: A short circuit fault is detected in the output channel | Enumeration Literal | | | | | | Option LS4 |
| Eu.SDI-LS.278 | Req | OpenCircuit | 3: The interface connection is broken due to an open circuit | Enumeration Literal | | | | | | Option LS4 |
| Eu.SDI-LS.281 | Req | LampWireRole | Enumeration: Role of one filament within the lamp | ValueType (Enumeration) | | | | | | Basic LS |
| Eu.SDI-LS.343 | Req | Unknown | 0: Unknown | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.283 | Req | MainFilament | 1 | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.282 | Req | AuxiliaryFilament | 2 | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.284 | Req | LightSignalAdjacentTrainControlSystem | Enumeration: Type of adjacent system | ValueType (Enumeration) | | | | | | Option LS4<br>Option LS5 |
| Eu.SDI-LS.344 | Req | Unknown | 0: Unknown | Enumeration Literal | | | | | | Option LS4<br>Option LS5 |
| Eu.SDI-LS.285 | Req | Eurobalise | 1 | Enumeration Literal | | | | | | Option LS4 |
| Eu.SDI-LS.286 | Req | LegacyTrainProtectionSystem | 2 | Enumeration Literal | | | | | | Option LS5 |
| Eu.SDI-LS.287 | Req | NightDay | Enumeration: Luminosity value (day or night) | ValueType (Enumeration) | | | | | | Basic LS |
| Eu.SDI-LS.290 | Req | Unknown | 0: The status unknown is used when the state is not yet established e.g. if connection to the system is lost | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.288 | Req | Day | 1 | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.289 | Req | Night | 2 | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.315 | Req | IndicatorStatus | Enumeration: Status of the indicator | ValueType (Enumeration) | | | | | | Basic LS |
| Eu.SDI-LS.318 | Req | Unknown | 0: The status unknown is used when the state is not yet established e.g. if connection to the system is lost | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.317 | Req | Off | 1 | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.316 | Req | On | 2 | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.331 | Req | LogicalLightPointStatus | Enumeration: Value of the logical output channel | ValueType (Enumeration) | | | | | | Basic LS |
| Eu.SDI-LS.335 | Req | Unknown | 0: The status unknown is used when the state is not yet established e.g. if connection to the system is lost | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.333 | Req | SwitchedOff | 1 | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.334 | Req | SwitchedOn | 2 | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.332 | Req | Flashing | 3 | Enumeration Literal | | | | | | Basic LS |
| Eu.SDI-LS.291 | Head | **2.2.2 Light Signal class diagram** | | | | | | | | |
| Eu.SDI-LS.336 | Info | In the class diagram, classes presented in yellow indicate classes from the generic SDI model and are covered in [Eu.Doc.94]. Classes presented in blue are specific classes and covered in this document. | | | | | | | | Basic LS |
| Eu.SDI-LS.263 | Info | Light Signal class diagram<br>See Figure 1 on page 6. | The class diagram represents the static structure of the Subsystem - Light Signal from the point of view of diagnostics. | Class Diagram | | | | | | Basic LS |

Figure 1: From object 263 on page 5.