



Reference Manual
Hilscher Error Codes

Hilscher Gesellschaft für Systemautomation mbH

www.hilscher.com

DOC100802PR01EN | Revision 01 | English | 2011-10 | Released | Public

Table of Contents

1	INTRODUCTION.....	7
1.1.1	List of Revisions	7
1.2	Legal Notes.....	8
1.2.1	Copyright	8
1.2.2	Important Notes	8
1.2.3	Exclusion of Liability	9
1.2.4	Warranty	9
1.2.5	Export Regulations	10
2	CIFX DEVICE DRIVER	11
2.1	cifX Device Driver – Windows CE DRV	11
2.2	cifX Device Driver – Windows DRV	14
3	NETX DUAL-PORT MEMORY INTERFACE DPM.....	17
4	3964R PROTOCOL API.....	20
5	ASCII PROTOCOL API	22
6	AS-INTERFACE MASTER PROTOCOL API	23
6.1	Status/Error Codes APM-Task	25
7	CANOPEN MASTER PROTOCOL API.....	26
7.1	Codes of the CANopen-APM-Task.....	26
7.2	Codes of the CANopen Master-Task.....	27
8	CANOPEN SLAVE PROTOCOL API	31
8.1	Codes of the CANopen-APS-Task	31
8.2	Codes of the CANopen Slave-Task.....	32
9	CC-LINK SLAVE PROTOCOL API.....	34
9.1	Status/Error Codes CC-Link APS-Task	34
9.2	Status/Error Codes CC-Link Slave-Task	36
10	COMPONET SLAVE PROTOCOL API	38
10.1	Status/Error Codes CompoNet AP Task	38
10.2	Status/Error Codes CompoNet CPS Task.....	38
11	DEVICENET MASTER PROTOCOL API.....	40
11.1	Status/Error Codes DevNet AP – Task.....	40
11.2	Status/Error Codes DevNet FAL – Task.....	41

11.3	Status/Error Codes CAN DL – Task	44
12	DEVICENET SLAVE PROTOCOL API	45
12.1	Error Codes of the FAL-Task.....	45
12.2	Error Codes of the AP-Task.....	47
12.3	Error Codes of the CAN_DL-Task	48
13	ETHERCAT MASTER PROTOCOL API	49
13.1	Error Codes of the EtherCAT Master Task.....	49
13.2	Error Codes of the EtherCAT Master AP-Task.....	54
14	ETHERCAT SLAVE PROTOCOL API.....	55
14.1	Status/Error Codes of Base Stack	55
14.2	Status/Error Codes of CoE Stack	58
14.3	Status/Error Codes of SoE Stack	61
15	ETHERCAT SLAVE - INDUSTRIALNETWORX IMAGE API.....	65
15.1	Status/Error Codes of Base Stack	65
15.1.1	Diagnostic Codes of the Base Stack.....	68
15.2	Status/Error Codes of CoE Stack	70
15.2.1	Diagnostic Codes of the CoE Stack	73
15.3	Status/Error Codes of SoE Stack	74
15.3.1	Diagnostic Codes of the SoE Stack	78
16	ETHERNET PROTOCOL API	80
16.1	Packet Status/Error.....	80
16.1.1	Diagnostic Status/Error	82
17	ETHERNET/IP ADAPTER PROTOCOL API.....	83
17.1	Status/Error Codes EipObject-Task.....	83
17.1.1	Diagnostic Codes	85
17.2	Status/Error Codes EipEncap-Task.....	86
17.2.1	Diagnostic Codes	88
18	ETHERNET/IP SCANNER PROTOCOL API	90
18.1	Status/Error Codes EipObject-Task.....	90
18.1.1	Diagnostic Codes EipObject-Task.....	92
18.2	Status/Error Codes EipEncap-Task.....	93
18.2.1	Diagnostic Codes EipEncap-Task.....	95
18.3	Status/Error Codes APM-Task	97
18.3.1	Diagnostic Codes APM-Task	97
18.4	CIP General Error Codes.....	98
18.5	Status/Error Codes Eip_DLR-Task	100

19	IO-LINK MASTER API.....	101
19.1	Event Codes	101
19.2	Error Code	103
19.3	Additional Code	104
20	MODBUS RTU PROTOCOL API	105
21	OPENMODBUSTCP PROTOCOL API	107
21.1	Status/Error Codes OMB-Task.....	107
21.2	Status/Error codes OMB_AP-Task	111
22	POWERLINK CONTROLLED NODE PROTOCOL API	112
22.1	Status/Error Codes	112
23	PROFIBUS-DP MASTER PROTOCOL API	117
23.1	Error Codes of the FSPMM-Task	117
23.1.1	Diagnostic Codes of the FSPMM-Task	119
23.2	Error Codes of the FSPMM2-Task	120
23.3	Error Codes of the DL-Task.....	121
23.3.1	Diagnostic Codes of the DL-Task.....	122
23.4	Error Codes of the APM-Task.....	123
23.4.1	Diagnostic Codes of the APM-Task	124
24	PROFIBUS-DP SLAVE PROTOCOL API.....	125
24.1	Error Codes of the FSPMS-Task	125
24.1.1	Diagnostic Codes of the FSPMS-Task.....	127
24.2	Error Codes of the DL-Task.....	130
24.2.1	Diagnostic Codes of the DL-Task.....	132
24.3	Error Codes of the APS-Task	133
24.3.1	Diagnostic Codes of the APS-Task	133
25	PROFIBUS-DP SLAVE - INDUSTRIALNETWORX IMAGE API	134
25.1	Error Codes of the FSPMS-Task	134
25.1.1	Diagnostic Codes of the FSPMS-Task.....	136
25.2	Error Codes of the DL-Task.....	139
25.2.1	Diagnostic Codes of the DL-Task.....	141
25.3	Error Codes of the APS-Task	142
25.3.1	Diagnostic Codes of the APS-Task	142
26	PROFIBUS MPI PROTOCOL API.....	143
26.1	PROFIBUS MPI-Error Codes	143
26.2	Error Codes of the DL-Task.....	144
26.2.1	Diagnostic Codes of the DL-Task.....	146

27	PROFINET IO-CONTROLLER PROTOCOL API	147
27.1	Error Codes of the ACP – Task	147
27.1.1	Diagnostic Codes of the ACP –Task	148
27.2	Error Codes of the APCFG –Task	149
27.2.1	Diagnostic Codes of the APCFG -Task	152
27.3	Error Codes of the APCTL –Task	153
27.3.1	Diagnostic Codes of the APCTL -Task	155
27.4	Error Codes of the CMCTL –Task	156
27.4.1	Diagnostic Codes of the CMCTL –Task	159
27.5	Error Codes of the DCP –Task	160
27.5.1	Diagnostic Codes of the DCP –Task	162
27.6	Error Codes of the EDD –Task	162
27.6.1	Diagnostic Codes of the EDD –Task	162
27.7	Error Codes of the MGT –Task	163
27.7.1	Diagnostic Codes of the MGT –Task	165
27.8	Error Codes of the RPC –Task	166
27.8.1	Diagnostic Codes of the RPC –Task	168
27.9	Other Relevant Error Codes	169
28	PROFINET IO RT DEVICE V2 PROTOCOL API	172
28.1	Status/Error Codes Overview	172
29	PROFINET IO RT IRT DEVICE V3 PROTOCOL API	183
29.1	General Errors	183
29.2	Status/Error Codes for CM-Dev Task	194
29.2.1	CM-Dev-Task Diagnosis-Codes	199
29.3	Status/Error Codes for EDD Task	200
29.3.1	EDD-Task Diagnosis-Codes	200
29.4	Status/Error Codes for ACP Task	201
29.4.1	ACP-Task Diagnosis-Codes	204
29.5	Status/Error Codes for DCP Task	204
29.5.1	DCP-Task Diagnosis-Codes	208
29.6	Status/Error Codes for MGT Task	209
29.6.1	MGT-Task Diagnosis-Codes	212
30	PROFINET IO RT IRT DEVICE - INDUSTRIALNETWORKX IMAGE API	213
31	SERCOS III MASTER PROTOCOL API	224
31.1	Status/Error Codes SercosIIIMasterCP-Task	224
31.2	Status/Error Codes SercosIIIMasterSVC-Task	229
31.3	Status/Error Codes APM-Task	231
31.4	Status/Error Codes SercosIIIMasterNRT-Task	237

32	SERCOS III SLAVE PROTOCOL API.....	238
32.1	Error Codes of the AP-Task.....	238
32.2	Error Codes of the RTD-Task.....	239
32.3	Error Codes of the COM-Task.....	239
33	SERCOS III SLAVE PROTOCOL API.....	241
33.1	Status/Error Codes AP-Task.....	241
33.2	Status/Error Codes IDN-Task.....	241
33.3	Status/Error Codes COM-Task.....	243
33.4	Status/Error Codes Ethernet Interface.....	244
34	TCP IP PROTOCOL INTERFACE	245
35	LISTS	252
35.1	List of Tables	252
36	APPENDIX	255
36.1	Contacts.....	255

1 Introduction

1.1.1 List of Revisions

Index	Date	Chapter	Revision
1	10-08-30	All	created

1.2 Legal Notes

1.2.1 Copyright

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2 cifX Device Driver

2.1 cifX Device Driver – Windows CE DRV

Value	Symbol	Description
0x00000000	CIFX_NO_ERROR	No error
0x800Axxxx		
0x800A0001	CIFX_INVALID_POINTER	An invalid pointer (NULL) was passed to the function
0x800A0002	CIFX_INVALID_BOARD	No board with the given name / index available
0x800A0003	CIFX_INVALID_CHANNEL	No channel with the given index is available
0x800A0004	CIFX_INVALID_HANDLE	An invalid handle was passed to the function
0x800A0005	CIFX_INVALID_PARAMETER	Invalid parameter passed to function
0x800A0006	CIFX_INVALID_COMMAND	Command parameter is invalid
0x800A0007	CIFX_INVALID_BUFFERSIZE	The supplied buffer does not match the expected size
0x800A0008	CIFX_INVALID_ACCESS_SIZE	Invalid Access Size (e.g. IO Area is exceeded by Offset and size)
0x800A0009	CIFX_FUNCTION_FAILED	Generic Function failure
0x800A000A	CIFX_FILE_OPEN_FAILED	A file could not be opened
0x800A000B	CIFX_FILE_SIZE_ZERO	File size is zero
0x800A000C	CIFX_FILE_LOAD_INSUFF_MEM	Insufficient memory to load file
0x800A000E	CIFX_FILE_READ_ERROR	Error reading file data
0x800A000F	CIFX_FILE_TYPE_INVALID	The given file is invalid for the operation
0x800A0010	CIFX_FILE_NAME_INVALID	Invalid filename given
0x800A0011	CIFX_FUNCTION_NOT_AVAILABLE	Function is not available on the driver
0x800A0012	CIFX_BUFFER_TOO_SHORT	The passed buffer is too short, to fit the device data
0x800A0013	CIFX_MEMORY_MAPPING_FAILED	Error mapping dual port memory
0x800A0014	CIFX_NO_MORE_ENTRIES	No more entries available (e.g. while enumerating directories)
0x800A0015	CIFX_CALLBACK_MODE_UNKNOWN	Unkown callback handling mode
0x800A0016	CIFX_CALLBACK_CREATE_EVENT_FAILED	Failed to create callback events
0x800A0017	CIFX_CALLBACK_CREATE_RECV_BUFFER	Failed to create callback receive buffer
0x800A0018	CIFX_CALLBACK_ALREADY_USED	Callback already used
0x800A0019	CIFX_CALLBACK_NOT_REGISTERED	Callback was not registered before
0x800A001A	CIFX_INTERRUPT_DISABLED	Interrupt is disabled
0x800Bxxxx		
0x800B0001	CIFX_DRV_NOT_INITIALIZED	Driver not initialized
0x800B0002	CIFX_DRV_INIT_STATE_ERROR	Driver init state error
0x800B0003	CIFX_DRV_READ_STATE_ERROR	Driver read state error
0x800B0004	CIFX_DRV_CMD_ACTIVE	Command is active on device
0x800B0005	CIFX_DRV_DOWNLOAD_FAILED	General error during download
0x800B0006	CIFX_DRV_WRONG_DRIVER_VERSION	Wrong driver version

Table 1: Error Codes - cifX Device Driver – Windows CE DRV 01 (1)

Value	Symbol	Description
0x800B0030	CIFX_DRV_DRIVER_NOT_LOADED	CIFx driver is not running
0x800B0031	CIFX_DRV_INIT_ERROR	Failed to initialize the device
0x800B0032	CIFX_DRV_CHANNEL_NOT_INITIALIZED	Channel not initialized (xOpenChannel() not called)
0x800B0033	CIFX_DRV_IO_CONTROL_FAILED	IOControl call failed
0x800B0034	CIFX_DRV_NOT_OPENED	Driver was not opened
0x800B0040	CIFX_DRV_DOWNLOAD_STORAGE_UNKNOWN	Unknown download storage type (RAM/FLASH based) found
0x800B0041	CIFX_DRV_DOWNLOAD_FW_WRONG_CHANNEL	Channel number for a firmware download not supported
0x800B0042	CIFX_DRV_DOWNLOAD_MODULE_NO_BASEOS	Modules are not allowed without a Base OS firmware
0x800C0010	CIFX_DEV_DPM_ACCESS_ERROR	Dual port memory not accessible (board not found)
0x800C0011	CIFX_DEV_NOT_READY	Device not ready (ready flag failed)
0x800C0012	CIFX_DEV_NOT_RUNNING	Device not running (running flag failed)
0x800C0013	CIFX_DEV_WATCHDOG_FAILED	Watchdog test failed
0x800C0015	CIFX_DEV_SYSERR	Error in handshake flags
0x800C0016	CIFX_DEV_MAILBOX_FULL	Send mailbox is full
0x800C0017	CIFX_DEV_PUT_TIMEOUT	Send packet timeout
0x800C0018	CIFX_DEV_GET_TIMEOUT	Receive packet timeout
0x800C0019	CIFX_DEV_GET_NO_PACKET	No packet available
0x800C001A	CIFX_DEV_MAILBOX_TOO_SHORT	Mailbox is too short for a packet
0x800C0020	CIFX_DEV_RESET_TIMEOUT	Reset command timeout
0x800C0021	CIFX_DEV_NO_COM_FLAG	Communication flag not set
0x800C0022	CIFX_DEV_EXCHANGE_FAILED	I/O data exchange failed
0x800C0023	CIFX_DEV_EXCHANGE_TIMEOUT	I/O data exchange timeout
0x800C0024	CIFX_DEV_COM_MODE_UNKNOWN	Unknown I/O exchange mode
0x800C0025	CIFX_DEV_FUNCTION_FAILED	Device function failed
0x800C0026	CIFX_DEV_DPMSIZE_MISMATCH	DPM size differs from configuration
0x800C0027	CIFX_DEV_STATE_MODE_UNKNOWN	Unknown state mode
0x800C0028	CIFX_DEV_HW_PORT_IS_USED	Device is still accessed
0x800C0029	CIFX_DEV_CONFIG_LOCK_TIMEOUT	Configuration locking timeout
0x800C002A	CIFX_DEV_CONFIG_UNLOCK_TIMEOUT	Configuration unlocking timeout
0x800C002B	CIFX_DEV_HOST_STATE_SET_TIMEOUT	Set HOST state timeout
0x800C002C	CIFX_DEV_HOST_STATE_CLEAR_TIMEOUT	Clear HOST state timeout
0x800C002D	CIFX_DEV_INITIALIZATION_TIMEOUT	Timeout during channel initialization
0x800C002E	CIFX_DEV_BUS_STATE_ON_TIMEOUT	Timeout setting bus on flag
0x800C002F	CIFX_DEV_BUS_STATE_OFF_TIMEOUT	Timeout setting bus off flag
0x800C0040	CIFX_DEV_MODULE_ALREADY_RUNNING	Module already running
0x800C0041	CIFX_DEV_MODULE_ALREADY_EXISTS	Module already exists

Table 2: Error Codes - cifX Device Driver – Windows CE DRV 01 (2)

Value	Symbol	Description
0x800C0050	CIFX_DEV_DMA_INSUFF_BUFFER_COUNT	Number of configured DMA buffers insufficient
0x800C0051	CIFX_DEV_DMA_BUFFER_TOO_SMALL	DMA buffers size too small (min size 256Byte)
0x800C0052	CIFX_DEV_DMA_BUFFER_TOO_BIG	DMA buffers size too big (max size 63,75KByte)
0x800C0053	CIFX_DEV_DMA_BUFFER_NOT_ALIGNED	DMA buffer alignment failed (must be 256Byte)
0x800C0054	CIFX_DEV_DMA_HANSHAKEMODE_NOT_SUPPORTED	I/O data uncontrolled handshake mode not supported
0x800C0055	CIFX_DEV_DMA_IO_AREA_NOT_SUPPORTED	I/O area in DMA mode not supported (only area 0 possible)
0x800C0056	CIFX_DEV_DMA_STATE_ON_TIMEOUT	Set DMA ON Timeout
0x800C0057	CIFX_DEV_DMA_STATE_OFF_TIMEOUT	Set DMA OFF Timeout
0x800C0058	CIFX_DEV_SYNC_STATE_INVALID_MODE	Device is in invalid mode for this operation
0x800C0059	CIFX_DEV_SYNC_STATE_TIMEOUT	Waiting for synchronization event bits timed out

Table 3: Error Codes - cifX Device Driver – Windows CE DRV 01 (3)

2.2 cifX Device Driver – Windows DRV

Value	Symbol	Description
0x00000000	CIFX_NO_ERROR	No error
0x800Axxxx		
0x800A0001	CIFX_INVALID_POINTER	An invalid pointer (NULL) was passed to the function
0x800A0002	CIFX_INVALID_BOARD	No board with the given name / index available
0x800A0003	CIFX_INVALID_CHANNEL	No channel with the given index is available
0x800A0004	CIFX_INVALID_HANDLE	An invalid handle was passed to the function
0x800A0005	CIFX_INVALID_PARAMETER	Invalid parameter passed to function
0x800A0006	CIFX_INVALID_COMMAND	Command parameter is invalid
0x800A0007	CIFX_INVALID_BUFFERSIZE	The supplied buffer does not match the expected size
0x800A0008	CIFX_INVALID_ACCESS_SIZE	Invalid Access Size (e.g. IO Area is exceeded by Offset and size)
0x800A0009	CIFX_FUNCTION_FAILED	Generic Function failure
0x800A000A	CIFX_FILE_OPEN_FAILED	A file could not be opened
0x800A000B	CIFX_FILE_SIZE_ZERO	File size is zero
0x800A000C	CIFX_FILE_LOAD_INSUFF_MEM	Insufficient memory to load file
0x800A000E	CIFX_FILE_READ_ERROR	Error reading file data
0x800A000F	CIFX_FILE_TYPE_INVALID	The given file is invalid for the operation
0x800A0010	CIFX_FILE_NAME_INVALID	Invalid filename given
0x800A0011	CIFX_FUNCTION_NOT_AVAILABLE	Function is not available on the driver
0x800A0012	CIFX_BUFFER_TOO_SHORT	The passed buffer is too short, to fit the device data
0x800A0013	CIFX_MEMORY_MAPPING_FAILED	Error mapping dual port memory
0x800A0014	CIFX_NO_MORE_ENTRIES	No more entries available (e.g. while enumerating directories)
0x800A0015	CIFX_CALLBACK_MODE_UNKNOWN	Unknown callback handling mode
0x800A0016	CIFX_CALLBACK_CREATE_EVENT_FAILED	Failed to create callback events
0x800A0017	CIFX_CALLBACK_CREATE_RECV_BUFFER	Failed to create callback receive buffer
0x800A0018	CIFX_CALLBACK_ALREADY_USED	Callback already used
0x800A0019	CIFX_CALLBACK_NOT_REGISTERED	Callback was not registered before
0x800A001A	CIFX_INTERRUPT_DISABLED	Interrupt is disabled
0x800Bxxxx		
0x800B0001	CIFX_DRV_NOT_INITIALIZED	Driver not initialized
0x800B0002	CIFX_DRV_INIT_STATE_ERROR	Driver init state error
0x800B0003	CIFX_DRV_READ_STATE_ERROR	Driver read state error
0x800B0004	CIFX_DRV_CMD_ACTIVE	Command is active on device
0x800B0005	CIFX_DRV_DOWNLOAD_FAILED	General error during download
0x800B0006	CIFX_DRV_WRONG_DRIVER_VERSION	Wrong driver version

Table 4: Error Codes - cifX Device Driver – Windows DRV 16 (1)

Value	Symbol	Description
0x800B0030	CIFX_DRV_DRIVER_NOT_LOADED	CIFx driver is not running
0x800B0031	CIFX_DRV_INIT_ERROR	Failed to initialize the device
0x800B0032	CIFX_DRV_CHANNEL_NOT_INITIALIZED	Channel not initialized (xOpenChannel() not called)
0x800B0033	CIFX_DRV_IO_CONTROL_FAILED	IOControl call failed
0x800B0034	CIFX_DRV_NOT_OPENED	Driver was not opened
0x800C0010	CIFX_DEV_DPM_ACCESS_ERROR	Dual port memory not accessible (board not found)
0x800C0011	CIFX_DEV_NOT_READY	Device not ready (ready flag failed)
0x800C0012	CIFX_DEV_NOT_RUNNING	Device not running (running flag failed)
0x800C0013	CIFX_DEV_WATCHDOG_FAILED	Watchdog test failed
0x800C0015	CIFX_DEV_SYSERR	Error in handshake flags
0x800C0016	CIFX_DEV_MAILBOX_FULL	Send mailbox is full
0x800C0017	CIFX_DEV_PUT_TIMEOUT	Send packet timeout
0x800C0018	CIFX_DEV_GET_TIMEOUT	Receive packet timeout
0x800C0019	CIFX_DEV_GET_NO_PACKET	No packet available
0x800C001A	CIFX_DEV_MAILBOX_TOO_SHORT	Mailbox is too short for a packet
0x800C0020	CIFX_DEV_RESET_TIMEOUT	Reset command timeout
0x800C0021	CIFX_DEV_NO_COM_FLAG	Communication flag not set
0x800C0022	CIFX_DEV_EXCHANGE_FAILED	I/O data exchange failed
0x800C0023	CIFX_DEV_EXCHANGE_TIMEOUT	I/O data exchange timeout
0x800C0024	CIFX_DEV_COM_MODE_UNKNOWN	Unknown I/O exchange mode
0x800C0025	CIFX_DEV_FUNCTION_FAILED	Device function failed
0x800C0026	CIFX_DEV_DPMSIZE_MISMATCH	DPM size differs from configuration
0x800C0027	CIFX_DEV_STATE_MODE_UNKNOWN	Unknown state mode
0x800C0028	CIFX_DEV_HW_PORT_IS_USED	Device is still accessed
0x800C0029	CIFX_DEV_CONFIG_LOCK_TIMEOUT	Configuration locking timeout
0x800C002A	CIFX_DEV_CONFIG_UNLOCK_TIMEOUT	Configuration unlocking timeout
0x800C002B	CIFX_DEV_HOST_STATE_SET_TIMEOUT	Set HOST state timeout
0x800C002C	CIFX_DEV_HOST_STATE_CLEAR_TIMEOUT	Clear HOST state timeout
0x800C002D	CIFX_DEV_INITIALIZATION_TIMEOUT	Timeout during channel initialization
0x800C002E	CIFX_DEV_BUS_STATE_ON_TIMEOUT	Timeout setting bus on flag
0x800C002F	CIFX_DEV_BUS_STATE_OFF_TIMEOUT	Timeout setting bus off flag
0x800C0040	CIFX_DEV_MODULE_ALREADY_RUNNING	Module already running
0x800C0041	CIFX_DEV_MODULE_ALREADY_EXISTS	Module already exists

Table 5: Error Codes - cifX Device Driver – Windows DRV 16 (2)

Value	Symbol	Description
0x800C0050	CIFX_DEV_DMA_INSUFF_BUFFER_COUNT	Number of configured DMA buffers insufficient
0x800C0051	CIFX_DEV_DMA_BUFFER_TOO_SMALL	DMA buffers size too small (min size 256Byte)
0x800C0052	CIFX_DEV_DMA_BUFFER_TOO_BIG	DMA buffers size too big (max size 63,75KByte)
0x800C0053	CIFX_DEV_DMA_BUFFER_NOT_ALIGNED	DMA buffer alignment failed (must be 256Byte)
0x800C0054	CIFX_DEV_DMA_HANSHAKEMODE_NOT_SUPPORTED	I/O data uncontrolled handshake mode not supported
0x800C0055	CIFX_DEV_DMA_IO_AREA_NOT_SUPPORTED	I/O area in DMA mode not supported (only area 0 possible)
0x800C0056	CIFX_DEV_DMA_STATE_ON_TIMEOUT	Set DMA ON Timeout
0x800C0057	CIFX_DEV_DMA_STATE_OFF_TIMEOUT	Set DMA OFF Timeout
0x800C0058	CIFX_DEV_SYNC_STATE_INVALID_MODE	Device is in invalid mode for this operation
0x800C0059	CIFX_DEV_SYNC_STATE_TIMEOUT	Waiting for synchronization event bits timed out

Table 6: Error Codes - cifX Device Driver – Windows DRV 16 (3)

3 netX Dual-Port Memory Interface DPM

Value	Definition / Description
0x00000000	RCX_S_OK Success, Status Okay
0xC0000001	RCX_E_FAIL Fail
0xC0000002	RCX_E_UNEXPECTED Unexpected
0xC0000003	RCX_E_OUTOFMEMORY Out Of Memory
0xC0000004	RCX_E_UNKNOWN_COMMAND Unknown Command
0xC0000005	RCX_E_UNKNOWN_DESTINATION Unknown Destination
0xC0000006	RCX_E_UNKNOWN_DESTINATION_ID Unknown Destination ID
0xC0000007	RCX_E_INVALID_PACKET_LEN Invalid Packet Length
0xC0000008	RCX_E_INVALID_EXTENSION Invalid Extension
0xC0000009	RCX_E_INVALID_PARAMETER Invalid Parameter
0xC000000C	RCX_E_WATCHDOG_TIMEOUT Watchdog Timeout
0xC000000D	RCX_E_INVALID_LIST_TYPE Invalid List Type
0xC000000E	RCX_E_UNKNOWN_HANDLE Unknown Handle
0xC000000F	RCX_E_PACKET_OUT_OF_SEQ Out Of Sequence
0xC0000010	RCX_E_PACKET_OUT_OF_MEMORY Out Of Memory
0xC0000011	RCX_E_QUE_PACKETDONE Queue Packet Done
0xC0000012	RCX_E_QUE_SENDPACKET Queue Send Packet
0xC0000013	RCX_E_POOL_PACKET_GET Pool Packet Get
0xC0000015	RCX_E_POOL_GET_LOAD Pool Get Load
0xC000001A	RCX_E_REQUEST_RUNNING Request Already Running
0xC0000100	RCX_E_INIT_FAULT Initialization Fault
0xC0000101	RCX_E_DATABASE_ACCESS_FAILED Database Access Failed
0xC0000119	RCX_E_NOT_CONFIGURED Not Configured
0xC0000120	RCX_E_CONFIGURATION_FAULT Configuration Fault
0xC0000121	RCX_E_INCONSISTENT_DATA_SET Inconsistent Data Set
0xC0000122	RCX_E_DATA_SET_MISMATCH Data Set Mismatch

Value	Definition / Description
0xC0000123	RCX_E_INSUFFICIENT_LICENSE Insufficient License
0xC0000124	RCX_E_PARAMETER_ERROR Parameter Error
0xC0000125	RCX_E_INVALID_NETWORK_ADDRESS Invalid Network Address
0xC0000126	RCX_E_NO_SECURITY_MEMORY No Security Memory
0xC0000140	RCX_E_NETWORK_FAULT Network Fault
0xC0000141	RCX_E_CONNECTION_CLOSED Connection Closed
0xC0000142	RCX_E_CONNECTION_TIMEOUT Connection Timeout
0xC0000143	RCX_E_LONELY_NETWORK Lonely Network
0xC0000144	RCX_E_DUPLICATE_NODE Duplicate Node
0xC0000145	RCX_E_CABLE_DISCONNECT Cable Disconnected
0xC0000180	RCX_E_BUS_OFF Network Node Bus Off
0xC0000181	RCX_E_CONFIG_LOCKED Configuration Locked
0xC0000182	RCX_E_APPLICATION_NOT_READY Application Not Ready
0xC002000C	RCX_E_TIMER_APPL_PACKET_SENT Timer App Packet Sent
0xC02B0001	RCX_E_QUE_UNKNOWN Unknown Queue
0xC02B0002	RCX_E_QUE_INDEX_UNKNOWN Unknown Queue Index
0xC02B0003	RCX_E_TASK_UNKNOWN Unknown Task
0xC02B0004	RCX_E_TASK_INDEX_UNKNOWN Unknown Task Index
0xC02B0005	RCX_E_TASK_HANDLE_INVALID Invalid Task Handle
0xC02B0006	RCX_E_TASK_INFO_IDX_UNKNOWN Unknown Index
0xC02B0007	RCX_E_FILE_XFR_TYPE_INVALID Invalid Transfer Type
0xC02B0008	RCX_E_FILE_REQUEST_INCORRECT Invalid File Request
0xC02B000E	RCX_E_TASK_INVALID Invalid Task
0xC02B001D	RCX_E_SEC_FAILED Security EEPROM Access Failed
0xC02B001E	RCX_E_EEPROM_DISABLED EEPROM Disabled
0xC02B001F	RCX_E_INVALID_EXT Invalid Extension
0xC02B0020	RCX_E_SIZE_OUT_OF_RANGE Block Size Out Of Range

Value	Definition / Description
0xC02B0021	RCX_E_INVALID_CHANNEL Invalid Channel
0xC02B0022	RCX_E_INVALID_FILE_LEN Invalid File Length
0xC02B0023	RCX_E_INVALID_CHAR_FOUND Invalid Character Found
0xC02B0024	RCX_E_PACKET_OUT_OF_SEQ Packet Out Of Sequence
0xC02B0025	RCX_E_SEC_NOT_ALLOWED Not Allowed In Current State
0xC02B0026	RCX_E_SEC_INVALID_ZONE Security EEPROM Invalid Zone
0xC02B0028	RCX_E_SEC_EEPROM_NOT_AVAIL Security EEPROM Eeprom Not Available
0xC02B0029	RCX_E_SEC_INVALID_CHECKSUM Security EEPROM Invalid Checksum
0xC02B002A	RCX_E_SEC_ZONE_NOT_WRITEABLE Security EEPROM Zone Not Writeable
0xC02B002B	RCX_E_SEC_READ_FAILED Security EEPROM Read Failed
0xC02B002C	RCX_E_SEC_WRITE_FAILED Security EEPROM Write Failed
0xC02B002D	RCX_E_SEC_ACCESS_DENIED Security EEPROM Access Denied
0xC02B002E	RCX_E_SEC_EEPROM_EMULATED Security EEPROM Emulated
0xC02B0038	RCX_E_INVALID_BLOCK Invalid Block
0xC02B0039	RCX_E_INVALID_STRUCT_NUMBER Invalid Structure Number
0xC02B4352	RCX_E_INVALID_CHECKSUM Invalid Checksum
0xC02B4B54	RCX_E_CONFIG_LOCKED Configuration Locked
0xC02B4D52	RCX_E_SEC_ZONE_NOT_READABLE Security EEPROM Zone Not Readable
else	Others are reserved

Table 7: Error Codes – netX Dual-Port Memory Interface DPM 09

4 3964R Protocol API

Definition	Value	Description
TLR_S_OK	(0x00000000)	Status ok
TLR_E_INVALID_PACKET_LEN	(0xC0000007)	Packet length is invalid
TLR_E_INVALID_PARAMETER	(0xC0000009)	Found invalid Parameter in packet
TLR_E_APPLICATION_ALREADY_REGISTERED	(0xC0000201)	Application is already registered
TLR_E_NOT_CONFIGURED	(0xC0000119)	Configuration not available
TLR_E_CONFIG_LOCK	(0xC0000181)	Changing configuration is not allowed
TLR_E_BUS_OFF	0xC0000180	Bus Off flag is set
TLR_E_P3964R_APP_COMMAND_INVALID	(0xC0900001)	Unknown command
TLR_E_P3964R_APP_RINGBUFFER_FULL	(0xC0900002)	Ring buffer is full
TLR_E_P3964R_APP_RINGBUFFER_EMPTY	(0x40900003)	Ring buffer is empty
TLR_E_P3964R_APP_RINGBUFFER_INIT_ERROR	(0xC0900004)	Error initializing the ring buffer, possibly not enough memory available
TLR_E_P3964R_COMMAND_INVALID	(0xC08F0001)	Invalid command received
TLR_E_P3964R_STACK_PACKET_TOO_LONG	(0xC08F0002)	Packet is too long
TLR_E_P3964R_STACK_LED_NOT_SUPPORTED	(0xC08F0003)	LED is not supported
TLR_E_P3964R_INIT_CONFLICT_HIGH_PRIO	(0xC08F0004)	Init conflict, both devices have high priority
TLR_E_P3964R_INIT_CONFLICT_LOW_PRIO	(0xC08F0005)	Init conflict, both devices have low priority
Errors during Transmission:		
TLR_E_P3964R_TX_NEG_ACK_TO_CON_CLEARDOWN	(0xC08F0006)	Negative acknowledge at connection clear down
TLR_E_P3964R_TX_NEG_ACK_TO_CON_BUILDUP	(0xC08F0007)	Negative acknowledge at connection buildup
TLR_E_P3964R_TX_TRANSM_ABORT_BY_RECEIVER	(0xC08F0008)	Transmission aborted by receiver
TLR_E_P3964R_TX_ACK_TIMEOUT_AT_BUILDUP	(0xC08F0009)	Acknowledge timeout at connection build up
TLR_E_P3964R_TX_ACK_TIMEOUT_AT_CLEARDOWN	(0xC08F000A)	Acknowledge timeout at connection clear down
TLR_E_P3964R_TX_DATA_TRANSM_INTERRUPTED	(0xC08F001B)	Transmission interrupted by receiver
TLR_E_P3964R_TX_RAND_CHAR_TO_CON_BUILDUP	(0xC08F000C)	Received arbitrary character at connection build up
TLR_E_P3964R_TX_RAND_CHAR_TO_CON_CLEARDOWN	(0xC08F000D)	Received arbitrary character at connection clear down
Errors during Reception:		
TLR_E_P3964R_RX_FRAME_TOO_LONG	(0xC08F000E)	Received frame was too long
TLR_E_P3964R_RX_DLE_NOT_DOUBLED	(0xC08F000F)	DLE was not doubled
TLR_E_P3964R_RX_RANDOM_CHAR_RECVD_IN_IDLE	(0xC08F0010)	Other character than STX received in idle state

Definition	Value	Description
TLR_E_P3964R_RX_CHARACTER_TIMEOUT	(0xC08F0011)	Character timeout
TLR_E_P3964R_RX_CHECKSUM_ERROR	(0xC08F0012)	Checksum (BCC) error
TLR_E_P3964R_RX_NO_MEM_SEG_AVAILABLE	(0xC08F0013)	No memory segment available
UART Errors		
TLR_E_P3964R_UART_PARITY_ERROR	(0xC08F0014)	UART parity error
TLR_E_P3964R_UART_BREAK	(0xC08F0015)	UART break
TLR_E_P3964R_UART_FRAME_ERROR	(0xC08F0016)	UART framing error
TLR_E_P3964R_UART_OVERRUN	(0xC08F0017)	UART overrun

Table 8: Status/Error Codes Overview - 3964R Protocol API

5 ASCII Protocol API

Definition / (Value)		Description
TLR_S_OK (0x00000000)		Status ok
Definition	Value	Description
TLR_E_ASCII_STACK_COMMAND_INVALID	0xC07E0001	
TLR_E_ASCII_STACK_DATA_SIZE_INVALID	0xC07E0002	
TLR_E_ASCII_STACK_BUSY	0xC07E0003	
TLR_E_ASCII_STACK_PACKET_TOO_LONG	0xC07E0004	
TLR_E_ASCII_STACK_DATA_OVERLAPPED	0xC07E0005	
TLR_E_ASCII_STACK_RESPONCE_TIMEOUT	0xC07E0006	
TLR_E_ASCII_STACK_WAITING_RESPONCE	0xC07E0007	
TLR_E_ASCII_STACK_LED_NOT_SUPPORTED	0xC07E0008	
TLR_E_ASCII_MSG_MODE_DISABLED	0xC07E0009	

Table 9: Packet Status/Error – ASCII Protocol API

6 AS-Interface Master Protocol API

Definition / (Value)	Description
TLR_S_OK (0x00000000)	Status ok
TLR_E_ASI_MASTER_PARAM_CYCLETIME (0xC07A0001L)	Invalid value for parameter cycle time.
TLR_E_ASI_MASTER_PARAM_XC_INSTANCE (0xC07A0002L)	Invalid value for parameter xC instance.
TLR_E_ASI_MASTER_PARAM_QUEUE_ELEMENT (0xC07A0003L)	Invalid value for parameter queue element.
TLR_E_ASI_MASTER_PARAM_POOL_ELEMENT (0xC07A0004L)	Invalid value for parameter pool element.
TLR_E_ASI_MASTER_PARAM_MIN_CYCLE_TIME (0xC07A0005L)	Invalid value for parameter min cycle timer.
TLR_E_ASI_MASTER_PARAM_OPERATION_MODE (0xC07A0006L)	Invalid value for parameter operation mode.
TLR_E_ASI_MASTER_PARAM_DATA_EXCHANGE (0xC07A0007L)	Invalid value for parameter data exchange.
TLR_E_ASI_MASTER_PARAM_AUTO_ADDRESS_ENABLE (0xC07A0008L)	Invalid value for parameter auto address enable.
TLR_E_ASI_MASTER_PARAM_MANAGEMENT_PHASE (0xC07A0009L)	Invalid value for parameter management phase.
TLR_E_ASI_MASTER_PARAM_PROCESS_DATA_MODE (0xC07A000AL)	Invalid value for parameter process data mode.
TLR_E_ASI_MASTER_PARAM_DATA_FORMAT (0xC07A000BL)	Invalid value for parameter process data format.
TLR_E_ASI_MASTER_INIT_BUFFER (0xC07A000CL)	Failed to initialize data buffer.
TLR_E_ASI_MASTER_INITIALIZING (0xC07A000DL)	Master is initializing.
TLR_E_ASI_MASTER_DATA_COUNT (0xC07A000EL)	Invalid data count.
TLR_E_ASI_MASTER_DATA_OFFSET (0xC07A000FL)	Invalid data offset.
TLR_E_ASI_MASTER_NOT_ALLOWED_IN_PROTECTED_MODE (0xC07A0010L)	Request is not allowed in protected mode.
TLR_E_ASI_MASTER_AUTO_CLEAR (0xC07A0011L)	Master is in auto-clear state.
TLR_E_ASI_MASTER_CONTROL_ERROR (0xC07A0012L)	Control error detected.
TLR_E_ASI_MASTER_SLAVE_MISSING (0xC07A0013L)	Slave is missing.
TLR_E_ASI_MASTER_POWER_FAILURE (0xC07A0014L)	Power failure detected.
TLR_E_ASI_MASTER_OFFLINE_READY (0xC07A0015L)	Master is in offline ready state.
TLR_E_ASI_MASTER_NOT_IN_NORMAL_OPERATION (0xC07A0016L)	Master is not in normal operation.
TLR_E_ASI_MASTER_INVALID_SLAVE_ADDRESS (0xC07A0017L)	Invalid slave address.
TLR_E_ASI_MASTER_SLAVE_ACTIVATED (0xC07A0018L)	Slave is activated.
TLR_E_ASI_MASTER_SLAVE_NOT_ACTIVATED (0xC07A0019L)	Slave is not activated.
TLR_E_ASI_MASTER_SLAVE_DETECTED (0xC07A001AL)	Slave is detected.

Definition / (Value)	Description
TLR_E_ASI_MASTER_SLAVE_NOT_DETECTED (0xC07A001BL)	Slave is not detected.
TLR_E_ASI_MASTER_TIMEOUT (0xC07A001CL)	Timeout detected.
TLR_E_ASI_MASTER_SLAVE_0_DETECTED (0xC07A001DL)	Slave at address 0 detected.
TLR_E_ASI_MASTER_NEW_SLAVE_DETECTED (0xC07A001EL)	Slave at new address detected.
TLR_E_ASI_MASTER_DELETE_ADDRESS (0xC07A001FL)	Error with deletion of address.
TLR_E_ASI_MASTER_READ_EXT_ID1 (0xC07A0020L)	Error with reading extended ID code 1.
TLR_E_ASI_MASTER_SET_EXT_ID1 (0xC07A0021L)	Error with setting extended ID code 1.
TLR_E_ASI_MASTER_ADDRESS_SET_TEMPORARY (0xC07A0022L)	New address stored temporarily.
TLR_E_ASI_MASTER_SET_ADDRESS (0xC07A0023L)	Error with setting new address.
TLR_E_ASI_MASTER_EXT_ID1_SET_TEMPORARY (0xC07A0024L)	Extended ID code 1 stored temporarily.
TLR_E_ASI_MASTER_INVALID_SLAVE_PROFILE (0xC07A0025L)	Invalid slave profile.
TLR_E_ASI_MASTER_SLAVE_CONFIG (0xC07A0026L)	Invalid slave configuration.
TLR_E_ASI_MASTER_SLAVE_ALREADY_CONFIGURED (0xC07A0027L)	Slave is already configured.
TLR_E_ASI_MASTER_STRING_TRANSFER_DATA_OVERFLOW (0xC07A0028L)	Data overflow during string transfer detected.
TLR_E_ASI_MASTER_PARAM_AUTOCLEAR_WITH_AUTOADDRESS (0xC07A0029L)	Invalid value for parameter autoclear in combination with value for parameter autoaddress.
TLR_E_ASI_MASTER_PARAM_AUTOCLEAR_WITH_CONFIG_MODE (0xC07A002AL)	Invalid value for parameter autoclear in combination with value for parameter operationmode.
TLR_E_ASI_MASTER_COMMAND_NOT_ALLOWED_WITH_AUTOCLEAR (0xC07A002BL)	Command is not allowed if autoclear is active.

Table 10: Status/Error Codes ASIMASTER –Task - AS-Interface Master Protocol API

6.1 Status/Error Codes APM-Task

Definition / (Value)	Description
TLR_S_OK (0x00000000)	Status ok
TLR_E_ASI_APM_PARAM_CYCLETIME (0xC07B0001L)	Invalid value for parameter cycle time.
TLR_E_ASI_APM_PARAM_CHN_INSTANCE (0xC07B0002L)	Invalid value for parameter channel instance.
TLR_E_ASI_APM_PARAM_QUEUE_ELEMENT (0xC07B0003L)	Invalid value for parameter queue element.
TLR_E_ASI_APM_PARAM_POOL_ELEMENT (0xC07B0004L)	Invalid value for parameter pool element.
TLR_E_ASI_APM_PARAM_AUTO_CLEAR (0xC07B0005L)	Invalid value for parameter auto-clear.
TLR_E_ASI_APM_SLAVE_ALREADY_CONFIGURED (0xC07B0006L)	Slave is already configured.
TLR_E_ASI_APM_INVALID_DBM_VERSION (0xC07B0007L)	Invalid version of database.
TLR_E_ASI_APM_STORE_CONFIGURATION_NOT_POSSIBLE (0xC07B0008L)	Permanent storage of configuration is not possible.
TLR_E_ASI_APM_INVALID_SLAVE_PARAMETER (0xC07B0009L)	Invalid slave parameter.
TLR_E_ASI_APM_ACTIVATE_WATCHDOG (0xC07B000AL)	Failed to activate watchdog supervision.
TLR_E_ASI_APM_NOT_ALLOWED_IN_PROTECTED_MODE (0xC07B000BL)	Request is not allowed in protected mode.

Table 11: Status/Error Codes APM-Task

7 CANopen Master Protocol API

7.1 Codes of the CANopen-APM-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0000001	TLR_E_FAIL Common error, detailed error information optionally present in the data area of packet
0xC0490004	TLR_E_CANOPEN_APM_WATCHDOG_PARAMETER Invalid parameter for watchdog.
0x40490005	TLR_I_CANOPEN_APM_OPEN_DBM_FILE Database file not found.
0xC0490006	TLR_E_CANOPEN_APM_DATASET Failed to open configuration dataset.
0xC0490007	TLR_E_CANOPEN_APM_TABLE_GLOBAL Failed to open GLOBAL configuration dataset.
0xC0490008	TLR_E_CANOPEN_APM_TABLE_BUS_CAN Failed to open BUS_CAN configuration dataset.
0xC0490009	TLR_E_CANOPEN_APM_TABLE_BUS_CAN_EXT Failed to open BUS_CAN_EXT configuration dataset.
0xC049000A	TLR_E_CANOPEN_APM_TABLE_NODES Failed to open NODES configuration dataset.
0xC049000B	TLR_E_CANOPEN_APM_WATCHDOG_ACTIVATE Failed to activate watchdog supervision.
0xC049000C	TLR_E_CANOPEN_APM_SIZE_TABLE_BUS_CAN Invalid size of BUS_CAN configuration dataset.
0xC049000D	TLR_E_CANOPEN_APM_SIZE_TABLE_BUS_CAN_EXT Invalid size of BUS_CAN_EXT configuration dataset.
0xC049000E	TLR_E_CANOPEN_APM_NODE_ALREADY_CONFIGURED Node already configured.
0xC049000F	TLR_E_CANOPEN_APM_INVALID_NODE_ID Invalid Node ID.
0xC0490010	TLR_E_CANOPEN_APM_DATABASE_FOUND Configuration database found.
0xC0490011	TLR_E_CANOPEN_APM_REQUEST_RUNNING Request already running.

Table 12: Error Messages of the CANopen-APM-Task - CANopen Master Protocol API 08

7.2 Codes of the CANopen Master-Task

The following table defined the error messages of the CANopen Master-Task:

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0000001	TLR_E_FAIL Common error, detailed error information optionally present in the data area of packet
0xC0420003	TLR_E_CANOPEN_MASTER_DATA_COUNT Invalid data count.
0xC0420004	TLR_E_CANOPEN_MASTER_DATA_OFFSET Invalid data offset.
0xC0420005	TLR_E_CANOPEN_MASTER_DATA_COUNT_WITH_OFFSET Invalid data count in combination with offset.
0xC0420006	TLR_E_CANOPEN_MASTER_MODE Invalid mode in command.
0xC0420007	TLR_E_CANOPEN_MASTER_STATE Command is not allowed in current state.
0xC0420008	TLR_E_CANOPEN_MASTER_NO_VALID_BUS_PARAM No valid bus configuration parameterized.
0xC042000A	TLR_E_CANOPEN_MASTER_BUS_RUNNING Command is not allowed because CANopen is running.
0xC042000B	TLR_E_CANOPEN_MASTER_BUS_PARAM_ALREADY_SET Bus parameters are already configured.
0xC042000C	TLR_E_CANOPEN_MASTER_LOCAL_NODE_ID Invalid Node ID for CANopen Master.
0xC042000D	TLR_E_CANOPEN_MASTER_BAUDRATE Invalid Baud rate.
0xC042000E	TLR_E_CANOPEN_MASTER_29BIT_SELECTOR Invalid parameter for 29 bit selector.
0xC042000F	TLR_E_CANOPEN_MASTER_SYNC_TIMER_VALUE Invalid parameter for SYNC timer.
0xC0420010L	TLR_E_CANOPEN_MASTER_COB_ID_SYNC Invalid parameter for COB-ID SYNC.
0xC0420011	TLR_E_CANOPEN_MASTER_PROD_HEARTBEAT_TIME Invalid parameter for Producer Heartbeat time.
0xC0420013	TLR_E_CANOPEN_MASTER_NODE_PARAM_SET_SIZE Invalid size of Node parameter set.
0xC0420014	TLR_E_CANOPEN_MASTER_NODE_PARAM_HEADER_SIZE Invalid size of Node parameter header.
0xC0420015	TLR_E_CANOPEN_MASTER_NODE_ALREADY_CONFIGURED Node is already configured.
0xC0420016	TLR_E_CANOPEN_MASTER_SLAVE_NODE_ID Invalid Node ID for Slave.
0xC0420017	TLR_E_CANOPEN_MASTER_NODE_ID_EQUAL Node ID of Slave is equal to Master Node ID.

Hexadecimal Value	Definition Description
0xC0420018	TLR_E_CANOPEN_MASTER_PARAMETER_SET_LENGTH Length of parameter set is different from length in parameter header.
0xC0420019	TLR_E_CANOPEN_MASTER_SDO_PARAMETER_SET_LENGTH Invalid size of SDO parameter set.
0xC042001A	TLR_E_CANOPEN_MASTER_PDO_PARAMETER_SET_LENGTH Invalid size of PDO parameter set.
0xC042001B	TLR_E_CANOPEN_MASTER_ADDR_TABLE_SET_LENGTH Invalid size of address table.
0xC042001C	TLR_E_CANOPEN_MASTER_ADDR_TABLE_LENGTH_INCONSISTENT Address table size is inconsistent.
0xC042001E	TLR_E_CANOPEN_MASTER_TPDO_CNT Invalid number of transmitted PDOs.
0xC042001F	TLR_E_CANOPEN_MASTER_RPDO_CNT Invalid number of received PDOs.
0xC0420020	TLR_E_CANOPEN_MASTER_COB_ID_EMCY Invalid value for COB-ID Emergency.
0xC0420021	TLR_E_CANOPEN_MASTER_COB_ID_GUARD Invalid value for COB-ID Guard.
0xC0420022	TLR_E_CANOPEN_MEMORY_ALLOCATION No memory for parameter set.
0xC0420023	TLR_E_CANOPEN_SDO_DATA_CNT Invalid value for SDO data count.
0xC0420024	TLR_E_CANOPEN_PDO_DATA_CNT Invalid value for PDO data count.
0xC0420025	TLR_E_CANOPEN_ADDR_TAB_DATA_CNT Invalid value for address table data count.
0xC0420026	TLR_E_CANOPEN_ADDR_TAB_PDO_CNT Invalid value for address table PDO count.
0xC0420027	TLR_E_CANOPEN_MASTER_NODE_SDO_TIMEOUT Timeout during SDO transfer.
0xC0420028	TLR_E_CANOPEN_MASTER_NODE_SDO_ERROR Error during SDO transfer.
0xC0420029	TLR_E_CANOPEN_MASTER_NO_PDO_AVAILABLE No further PDO available.
0xC042002A	TLR_E_CANOPEN_MASTER_AUTO_CLEAR_ACTIVE Master is in auto clear state.
0xC042002B	TLR_E_CANOPEN_MASTER_WATCHDOG_FAIL Watchdog failure detected.
0xC042002C	TLR_E_CANOPEN_MASTER_INVALID_INDEX Invalid index for request.
0xC042002D	TLR_E_CANOPEN_MASTER_NODE_STATE Request not possible in current Node state.
0xC042002F	TLR_E_CANOPEN_MASTER_SDO_REQUEST_FAILED SDO request failed.
0x40420030	TLR_I_CANOPEN_MASTER_ALREADY_IN_STATE Master is already in requested state.

Hexadecimal Value	Definition Description
0xC0420031	TLR_E_CANOPEN_MASTER_COB_ID_PDO Invalid value for PDO COB-ID.
0xC0420032	TLR_E_CANOPEN_MASTER_SEND_EMCY Send emergency-telegram failed.
0xC0420033	TLR_E_CANOPEN_MASTER_INIT_SDO_REQUEST Failed to initialize SDO request.
0xC0420034	TLR_E_CANOPEN_MASTER_SET_NMT_STATE Set NMT state failed.
0xC0420035	TLR_E_CANOPEN_MASTER_ERROR_PASSIVE CANopen is in error-passive state.
0xC0420036	TLR_E_CANOPEN_MASTER_BUS_OFF CANopen is in bus-off state.
(0x40420037	TLR_I_CANOPEN_MASTER_NODE_DEACTIVATED Node is deactivated in configuration.
0xC0420038	TLR_E_CANOPEN_MASTER_DL_REQ_FAILED CAN-DL request failed.
0xC0420039	TLR_E_CANOPEN_MASTER_PUT_OBJECT_DATA Failed to write object data.
0xC042003A	TLR_E_CANOPEN_MASTER_SET_OBJECT_DATA_VALID Failed to set object data valid.
0xC042003B	TLR_E_CANOPEN_MASTER_INIT_LIB Failed to initialize CANopen library.
0xC042003C	TLR_E_CANOPEN_MASTER_SET_COB_ID_FAILED COB-ID could not be set.
0xC042003D	TLR_E_CANOPEN_MASTER_ADD_REMOTE_NODE_REQUEST Failed to add remote Node.
0xC042003E	TLR_E_CANOPEN_MASTER_SET_HEARTBEAT_TIME Heartbeat time could not be set.
0xC042003F	TLR_E_CANOPEN_MASTER_DD_GUARDING_SLAVE Node could not be added to Node guarding list.
0xC0420040	TLR_E_CANOPEN_MASTER_SET_GUARDING_TIME Node guard time could not be set.
0xC0420041	TLR_E_CANOPEN_MASTER_START_NODE_GUARD Node guarding could not be started.
0xC0420042	TLR_E_CANOPEN_MASTER_RESET_NODE Reset Node failed.
0xC0420043	TLR_E_CANOPEN_MASTER_RESET_COMMUNICATION Failed to reset communication of Node.
0xC0420044	TLR_E_CANOPEN_MASTER_SET_NODE_PREOPERATIONAL Failed to set Node to preoperational state.
0xC0420045	TLR_E_CANOPEN_MASTER_STOP_NODE Failed to set Node to stop state.
0xC0420046	TLR_E_CANOPEN_MASTER_START_NODE Failed to set Node to operational state.
0xC0420047	TLR_E_CANOPEN_MASTER_SET_EMCY_COB_ID Failed to set Emergency COB-ID.

Hexadecimal Value	Definition Description
0xC0420048	TLR_E_CANOPEN_MASTER_START_SYNC Failed to start SYNC-telegram.
0xC0420049	TLR_E_CANOPEN_MASTER_STOP_SYNC Failed to stop SYNC-telegram.
0xC042004A	TLR_E_CANOPEN_MASTER_NODE_UNEXPECTED_STATE Node is not in expected state.
0xC042004B	TLR_E_CANOPEN_MASTER_NODE_LOST_CONNECTION Connection to Node lost.
0xC042004C	TLR_E_CANOPEN_MASTER_NODE_GUARDING_ERROR Node guarding error.
0xC042004D	TLR_E_CANOPEN_MASTER_NODE_HEARTBEAT_ERROR Heartbeat error.
0x4042004E	TLR_I_CANOPEN_MASTER_NODE_HEARTBEAT_STARTED Heartbeat supervision of Node started
0xC042004F	TLR_E_CANOPEN_MASTER_NODE_UNEXPECTED_BOOTUP Unexpected Boot up message from Node received.
0xC0420050	TLR_E_CANOPEN_MASTER_WRITE_PDO_REQ Failed to transmit PDO.
0xC0420051	TLR_E_CANOPEN_MASTER_READ_PDO_REQ Failed to request PDO.
0xC0420052	TLR_E_CANOPEN_MASTER_INIT_BUFFER Initialization of buffer failed
0x40420053	TLR_I_CANOPEN_MASTER_NODE_STATE_NOT_HANDLED State of Node not handled.
0xC0420054	TLR_E_CANOPEN_MASTER_NODE_DEVICE_TYPE Node Device Type unequal to configured Device Type.
0x40420055	TLR_I_CANOPEN_MASTER_NODE_EMERGENCY_RECEIVED Emergency message received from Node
0x40420056	TLR_I_CANOPEN_MASTER_INITIALIZE Master is initializing.
0x40420057	TLR_I_CANOPEN_MASTER_NODE_BOOTUP Boot up message from Node received.

Table 13: Error Messages of the CANopen Master-Task - CANopen Master Protocol API 08

8 CANopen Slave Protocol API

8.1 Codes of the CANopen-APS-Task

Definition / (Value)	Definition / Description
0x00000000	TLR_S_OK Status ok
0xC0000001	TLR_E_FAIL Common error, detailed error information optionally present in the data area of packet
0xC04A0002	TLR_E_CANOPEN_APS_DATABASE_FOUND Configuration database found.
0xC04A0003	TLR_E_CANOPEN_APS_NODE_ID_PARAMETER Invalid parameter for node id.
0xC04A0004	TLR_E_CANOPEN_APS_BAUDRATE_PARAMETER Invalid parameter for baudrate.
0xC04A0005	TLR_E_CANOPEN_APS_STATE Request not possible in current state.
0x404A0007	TLR_I_CANOPEN_APS_OPEN_DBM_FILE Failed to open configuration database.
0xC04A0008	TLR_E_CANOPEN_APS_DATASET Failed to open configuration dataset.
0xC04A0009	TLR_E_CANOPEN_APS_TABLE_GLOBAL Failed to open GLOBAL configuration dataset.
0xC04A000A	TLR_E_CANOPEN_APS_TABLE_BUS_CAN Failed to open BUS_CAN configuration dataset.
0xC04A000B	TLR_E_CANOPEN_APS_SIZE_TABLE_BUS_CAN Invalid size of BUS_CAN configuration dataset.
0x404A000C	TLR_I_CANOPEN_APS_CONFIG_LOCK Configuration is locked.
0xC04A000D	TLR_E_CANOPEN_APS_PACKET_LENGTH Invalid packet length.
0xC04A000E	TLR_E_CANOPEN_APS_WATCHDOG_PARAMETER Invalid parameter for watchdog supervision.
0xC04A000FL	TLR_E_CANOPEN_APS_WATCHDOG_ACTIVATE Failed to activate watchdog supervision.

Table 14: Error Messages of the CANopen-APS-Task - CANopen Slave Protocol API 06

8.2 Codes of the CANopen Slave-Task

The following table defined the error messages of the CANopen slave-task:

Definition / (Value)	Description
0x00000000	TLR_S_OK Status ok
0xC0000001	TLR_E_FAIL Common error, detailed error information optionally present in the data area of packet
0xC0430003	TLR_E_CANOPEN_SLAVE_DATA_COUNT Invalid data count.
0xC0430004	TLR_E_CANOPEN_SLAVE_DATA_OFFSET Invalid data offset.
0xC0430005	TLR_E_CANOPEN_SLAVE_DATA_COUNT_WITH_OFFSET Invalid data count in combination with offset.
0xC0430006	TLR_E_CANOPEN_SLAVE_MODE Invalid mode in command.
0xC0430007	TLR_E_CANOPEN_SLAVE_STATE Command is not allowed in current state.
0xC0430009	TLR_E_CANOPEN_SLAVE_BUS_RUNNING Command is not allowed because CANopen is running.
0xC043000A	TLR_E_CANOPEN_SLAVE_BUS_PARAM_ALREADY_SET Bus parameters are already configured.
0xC043000B	TLR_E_CANOPEN_SLAVE_LOCAL_NODE_ID Invalid Node ID for CANopen slave.
0xC043000C	TLR_E_CANOPEN_SLAVE_BAUDRATE Invalid Baudrate.
0xC043000D	TLR_E_CANOPEN_SLAVE_29BIT_SELECTOR Invalid parameter for 29 bit selector.
0x4043000F	TLR_I_CANOPEN_SLAVE_ALREADY_IN_STATE Slave is already in requested state.
0xC0430010	TLR_E_CANOPEN_SLAVE_SEND_EMCY Send emergency-telegram failed.
0xC0430011	TLR_E_CANOPEN_SLAVE_INIT_LIB Failed to initialize CANopen library.
0xC0430012	TLR_E_CANOPEN_SLAVE_ERROR_PASSIVE CANopen is in error-passive state.
0xC0430013	TLR_E_CANOPEN_SLAVE_BUS_OFF CANopen is in bus-off state.
0xC0430014	TLR_E_CANOPEN_SLAVE_PUT_OBJECT_DATA Failed to write object data.
0xC0430015	TLR_E_CANOPEN_SLAVE_SET_OBJECT_DATA_VALID Failed to set object data valid.

Definition / (Value)	Description
0xC0430016	TLR_E_CANOPEN_SLAVE_GET_OBJECT_DATA Failed to get object data.
0xC0430017	TLR_E_CANOPEN_SLAVE_WRITE_PDO_REQ Failed to transmit PDO.
0xC0430018	TLR_E_CANOPEN_SLAVE_GUARD_ERROR Guard error detected.
0xC0430019	TLR_E_CANOPEN_SLAVE_INIT_BUFFER Initialization of buffer failed.
0xC043001A	TLR_E_CANOPEN_SLAVE_DL_REQ_FAILED CAN-DL request failed.
0xC043001B	TLR_E_CANOPEN_SLAVE_INVALID_INDEX Invalid object index.
0xC043001C	TLR_E_CANOPEN_SLAVE_INVALID_SUB_INDEX Invalid sub-index.
0xC043001D	TLR_E_CANOPEN_SLAVE_INVALID_MAP_LENGTH Invalid mapping length.
0xC043001E	TLR_E_CANOPEN_SLAVE_INVALID_PDO_MODE Invalid transmission mode for PDO.
0xC043001F	TLR_E_CANOPEN_SLAVE_INVALID_PDO_LENGTH Invalid length for PDO.
0xC0430020	TLR_E_CANOPEN_SLAVE_NO_WRITE_PERM No write permission for object.
0xC0430021	TLR_E_CANOPEN_SLAVE_NO_READ_PERM No read permission for object.
0xC0430022	TLR_E_CANOPEN_SLAVE_VALUE_TOO_LOW Value for object too low.
0xC0430023	TLR_E_CANOPEN_SLAVE_VALUE_TOO_HIGH Value for object too high.
0xC0430024	TLR_E_CANOPEN_SLAVE_INVALID_PARAMETER Invalid parameter for object.
0xC0430025	TLR_E_CANOPEN_SLAVE_INVALID_PDO_STATE Invalid PDO state.
0x40430026	TLR_I_CANOPEN_SLAVE_INITIALIZE Slave is initializing.
0xC0430027L	TLR_E_CANOPEN_SLAVE_OBJECT_SIZE Invalid size for object.

Table 15: Error Messages of the CANopen Slave-Task

9 CC-Link Slave Protocol API

9.1 Status/Error Codes CC-Link APS-Task

Hexadecimal Value	Definition Description
0x	TLR_S_OK Status ok
0x406B0002	TLR_I_CCLINK_APS_OPEN_DBM_FILE Failed to open configuration database.
0xC06B0003	TLR_E_CCLINK_APS_DATASET Failed to open configuration dataset.
0xC06B0004	TLR_E_CCLINK_APS_TABLE_GLOBAL Failed to open GLOBAL configuration dataset.
0xC06B0005L	TLR_E_CCLINK_APS_TABLE_CCLS_INI Failed to open CCLS_INI configuration dataset.
0xC06B0006	TLR_E_CCLINK_APS_WATCHDOG_PARAMETER Invalid parameter for watchdog supervision.
0xC06B0007	TLR_E_CCLINK_APS_SIZE_TABLE_CCLS_INI Invalid size of CCLS_INI configuration dataset.
0xC06B000A	TLR_E_CCLINK_APS_DATABASE_FOUND Configuration database found.
0xC06B000BL	TLR_E_CCLINK_APS_SLAVE_STATION_ADDR_PARAMETER Invalid parameter for slave station address.
0xC06B000CL	TLR_E_CCLINK_APS_BAUDRATE_PARAMETER Invalid parameter for baudrate.
0xC06B000D	TLR_E_CCLINK_APS_NO_STATION_PARAMETER Invalid parameter for number of stations.
0xC06B000E	TLR_E_CCLINK_APS_MODE_PARAMETER Invalid parameter for mode.
0xC06B000F	TLR_E_CCLINK_APS_VENDOR_CODE_PARAMETER Invalid parameter for vendor code.
0xC06B0010	TLR_E_CCLINK_APS_MODEL_CODE_PARAMETER Invalid parameter for model code.
0xC06B0011	TLR_E_CCLINK_APS_SW_VERSION_PARAMETER Invalid parameter for software version.
0xC06B0012	TLR_E_CCLINK_APS_MODEL_TYPE_PARAMETER Invalid parameter for model type.
0xC06B0013	TLR_E_CCLINK_APS_IO_MODE_PARAMETER Invalid parameter for IO mode.
0xC06B0015	TLR_E_CCLINK_APS_INVALID_STATE Request not allowed in current state.
0xC06B0016	TLR_E_CCLINK_APS_PARAM_CYCLETIME Invalid parameter for cycle time.
0xC06B0017	TLR_E_CCLINK_APS_PARAM_CHN_INSTANCE Invalid parameter for DPM instance.
0xC06B0018	TLR_E_CCLINK_APS_SET_SWITCH_CHANGE_NOT_ALLOWED Change switch state not allowed.
0xC06B0019	TLR_E_CCLINK_APS_CCLINK_VERSION_PARAMETER

Hexadecimal Value	Definition Description
	Invalid parameter for CC-Link version.
0xC06B001A	TLR_E_CCLINK_APS_STATION_TYPE_PARAMETER Invalid parameter for station type.
0xC06B001B	TLR_E_CCLINK_APS_STATION_ADDR_WITH_NO_STATIONS_PARAMETER Invalid parameter for station address in combination with number of occupied stations.
0xC06B001C	TLR_E_CCLINK_APS_EXTENSION_CYCLE_PARAMETER Invalid parameter extension cycle.
0xC06B001D	TLR_E_CCLINK_APS_STATION_TYPE_WITH_CCLINK_VERSION_PARAMETER Invalid parameter for station type in combination with CC-Link version.
0xC06B001E	TLR_E_CCLINK_APS_PARAM_QUEUE_ELEMENT Invalid parameter for number of queue elements.
0xC06B001F	TLR_E_CCLINK_APS_PARAM_POOL_ELEMENT Invalid parameter for number of pool elements.
0xC06B0020	TLR_E_CCLINK_APS_PARAM_SWITCH Invalid parameter for switch parameter.
0xC06B0021	TLR_E_CCLINK_APS_PARAM_IO_TYPES_POINTS Invalid parameter for number of I/O types and I/O points.

Table 16: Status/Error Codes CC-Link APS-Task - CC-Link Slave Protocol API 06

9.2 Status/Error Codes CC-Link Slave-Task

Hexadecimal Value	Definition Description
0x	TLR_S_OK Status ok
0xC06A0003	TLR_I_CCLINK_SLAVE_ALREADY_IN_STATE Slave is already in requested state.
0xC06A0005	TLR_E_CCLINK_SLAVE_DATA_COUNT Invalid data count.
0xC06A0006	TLR_E_CCLINK_SLAVE_DATA_OFFSET Invalid data offset.
0xC06A0007	TLR_E_CCLINK_SLAVE_INIT_BUFFER Initialization of buffer failed.
0xC06A0008	TLR_E_CCLINK_SLAVE_INVALID_STATE Command is not allowed in current state.
0xC06A0009	TLR_E_CCLINK_SLAVE_MODE Invalid mode in command.
0xC06A000A	TLR_E_CCLINK_SLAVE_PARAM_BAUDRATE Invalid Baudrate.
0xC06A000B	TLR_E_CCLINK_SLAVE_PARAM_STATION_ADDR Invalid station address for CC-Link Slave.
0xC06A000C	TLR_E_CCLINK_SLAVE_PARAM_NO_STATIONS Invalid parameter for number of stations.
0xC06A000D	TLR_E_CCLINK_SLAVE_PARAM_VENDOR_CODE Invalid parameter for vendor code.
0xC06A000E	TLR_E_CCLINK_SLAVE_PARAM_MODEL_CODE Invalid parameter for model code.
0xC06A000F	TLR_E_CCLINK_SLAVE_PARAM_SW_VERSION Invalid parameter for software version.
0xC06A0010	TLR_E_CCLINK_SLAVE_PARAM_MODEL_TYPE Invalid parameter for model type.
0xC06A0011	TLR_E_CCLINK_SLAVE_PARAM_STATION_TYPE Invalid parameter for station type.
0xC06A0012	TLR_E_CCLINK_SLAVE_PARAM_CYCLETIME Invalid parameter for cycle time.
0xC06A0013	TLR_E_CCLINK_SLAVE_PARAM_XC_INSTANCE Invalid parameter for XC-Instance.
0xC06A0014	TLR_E_CCLINK_SLAVE_PARAM_STATION_ADDR_WITH_NO_STATIONS Invalid parameter for station address in combination with number of occupied stations.
0xC06A0015	TLR_E_CCLINK_SLAVE_PARAM_CCLINK_VERSION Invalid parameter for CC-Link version.
0xC06A0016	TLR_E_CCLINK_SLAVE_PARAM_EXTENSION_CYCLE Invalid parameter for extension cycle.
0xC06A0017	TLR_E_CCLINK_SLAVE_PARAM_STATION_TYPE_WITH_CCLINK_VERSION

Hexadecimal Value	Definition Description
	Invalid parameter for station type in combination with CC-Link version.
0xC06A0018	TLR_E_CCLINK_SLAVE_PARAM_QUEUE_ELEMENT Invalid parameter for number of queue elements.
0xC06A0019	TLR_E_CCLINK_SLAVE_PARAM_POOL_ELEMENT Invalid parameter for number of pool elements.
0xC06A001A	TLR_E_CCLINK_SLAVE_PARAM_IO_TYPES_POINTS Invalid parameter for number of I/O types and I/O points.

Table 17: Status/Error Codes CC-Link Slave-Task - CC-Link Slave Protocol API 06

10 CompoNet Slave Protocol API

10.1 Status/Error Codes CompoNet AP Task

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC07D0001L	TLR_E_COMPONET_SLAVE_APS_COMMAND_INVALID Invalid command received

Table 18: Status/Error Codes CompoNet AP Task - CompoNet Slave Protocol API 02

10.2 Status/Error Codes CompoNet CPS Task

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC07C0001L	TLR_E_COMPONET_SLAVE_COMMAND_INVALID Invalid command
0xC07C0002L	TLR_E_CPS_INIT_TRI_BUFFER Initialization error of triple buffer
0xC07C0003L	TLR_E_CPS_DIAG_TYPE Diagnosis type error
0xC07C0004L	TLR_E_CPS_DATA_LEN_INVALID Invalid data length
0xC07C0005L	TLR_E_CPS_WATCHDOG_INVALID_VALUE Invalid value for watchdog
0xC07C0006L	TLR_E_CPS_COMM_LOST Communication has been lost
0xC07C0007L	TLR_E_CPS_SLAVE_FATAL_ERROR Fatal error at slave
0xC07C0008L	TLR_E_CPS_IRQ_ENABLE_ERROR Error at IRQ Enable
0xC07C0009L	TLR_E_CPS_IRQ_DISABLE_ERROR Error at IRQ Disable
0xC07C000AL	TLR_E_CPS_UNKNOWN_PARAMETER Unknown parameter
0xC07C000BL	TLR_E_CPS_WRONG_CHANNEL Wrong channel
0xC07C000CL	TLR_E_CPS_WRONG_EVENT_LEN Wrong length of event
0xC07C000DL	TLR_E_CPS_WRONG_DEST_MAC_ID Wrong Dest MacID
0xC07C000EL	TLR_E_CPS_WRONG_EVENT_CMD_ID Wrong Event Command ID
0xC07C000FL	TLR_E_CPS_EVENT_NOT_RECEIVED Event not received

Hexadecimal Value	Definition Description
0xC07C0010L	TLR_E_CPS_DEVICE_NOT_ONLINE Device not online
0xC07C0011L	TLR_E_CPS_GENERAL_HAL_ERROR General HAL Error
0xC07C0012L	TLR_E_CPS_WRONG_BAUD_RATE Wrong Baud Rate
0xC07C0013L	TLR_E_CPS_WRONG_NODE_MODE Wrong Node Mode
0xC07C0014L	TLR_E_CPS_WRONG_IO_MODE Wrong IO Mode
0xC07C0015L	TLR_E_CPS_CLASS_ALREADY_REGISTERED Class already registered
0xC07C0016L	TLR_E_CPS_MAX_CLASS_NUMB_REACHED Maximum number of classes reached
0xC07C0017L	TLR_E_CPS_CLASS_DOES_NOT_EXIST Class does not exist

Table 19: Status/Error Codes CompoNet CPS Task - CompoNet Slave Protocol API 02

11 DeviceNet Master Protocol API

File	Description
TLR_global_error.h	Definition of global user status/error codes
CanDl_error.h	Definition of CAN DL Task status/error codes
DevNetFAL_error.h	Definition of DevNetFAL Task status/error codes

Table 20: Header Files containing Status/Error Codes - DeviceNet Master Protocol API 05

11.1 Status/Error Codes DevNet AP – Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC05B0001	TLR_E_DEVNET_AP_COMMAND_INVALID Invalid command received.
0xC05B0002	TLR_E_DEVNET_AP_SERVICE_NOT_SUPPORTED Service not supported.
0xC05B0010	TLR_E_DEVNET_AP_NO_DATA_BASE No data base found.
0xC05B0011	TLR_E_DEVNET_AP_ERR_OPEN_DATA_BASE Error while opening data base
0xC05B0012	TLR_E_DEVNET_AP_ERR_READ_DATA_BASE Error while reading data base.
0xC05B0013	TLR_E_DEVNET_AP_TABLE_NOT_FOUND Table not found in data base.
0xC05B0014	TLR_E_DEVNET_AP_INVALID_DNM_DATA_BASE No valid DeviceNet data base.
0xC05B0100	TLR_E_DEVNET_AP_NON_EXCHANGE_SLAVE No data exchange with at least one slave.
0xC05B0101	TLR_E_DEVNET_AP_NON_EXCHANGE_ALL No slave in data exchange.
0xC05B0110	TLR_E_DEVNET_AP_ILLEGAL_PACKET_LENGTH Illegal packet length.
0xC05B0111	TLR_E_DEVNET_AP_WRONG_WD_VALUE Wrong watchdog.

Table 21: Status/Error Codes DevNet AP – Task - DeviceNet Master Protocol API 05

11.2 Status/Error Codes DevNet FAL – Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0470002L	TLR_E_DEVNET_FAL_SERVICE_NOT_SUPPORTED Service not supported.
0xC0470003L	TLR_E_DEVNET_FAL_RESET_IN_REQUEST Reset is in request.
0xC0470004L	TLR_E_DEVNET_FAL_UNRECOVER_RESET_FAULT Unrecoverable reset fault.
0xC0470010L	TLR_E_DEVNET_FAL_SET_MODE_INVALID_MODE Invalid value for 'mode' of command.
0xC0470011L	TLR_E_DEVNET_FAL_SET_MODE_ALREADY_IN_REQUEST Command already in request.
0xC0470020L	TLR_E_DEVNET_FAL_CLR_CONFIG_NOT_ALLOWED_IN_ACTUAL_STATE Not allowed to clear configuration in actual mode.
0xC0470030L	TLR_E_DEVNET_FAL_DOWNLOAD_NOT_ALLOWED_IN_ACTUAL_STATE Download not allowed in actual state.
0xC0470031L	TLR_E_DEVNET_FAL_DOWNLOAD_INVALID_AREA_CODE Invalid value in 'AreaCode' of command.
0xC0470032L	TLR_E_DEVNET_FAL_DOWNLOAD_INVALID_SEQUENCE Sequence error.
0xC0470033L	TLR_E_DEVNET_FAL_DOWNLOAD_TO_MUCH_DATA Too much data.
0xC0470034L	TLR_E_DEVNET_FAL_DOWNLOAD_TO_LESS_DATA Less data.
0xC0470035L	TLR_E_DEVNET_FAL_DOWNLOAD_ALLREADY_CONFIGURED DeviceNet Stack already configured.
0xC0470036L	TLR_E_DEVNET_FAL_DOWNLOAD_FAULTY_CONFIGURATION DeviceNet Stack with an faulty configured loaded.
0xC0470037L	TLR_E_DEVNET_FAL_DPM_BYTE_ALREADY_MAPPED DPM Byte already mapped.
0xC0470038L	TLR_E_DEVNET_FAL_DPM_BYTE_OUT_OF_MEMORY DPM Byte out of DPM Memory.
0xC0470039L	TLR_E_DEVNET_FAL_UPLOAD_INVALID_AREA_CODE Invalid area code at upload
0xC0470100	TLR_E_DEVNET_FAL_BAUDRATE_OUT_OF_RANGE Invalid Baudrate.
0xC0470101	TLR_E_DEVNET_FAL_MAC_ID_OUT_OF_RANGE Invalid MAC ID.
0xC0470102	TLR_E_DEVNET_FAL_ADR_DOUBLE Slave already configured.
0xC0470103	TLR_E_DEVNET_FAL_DATA_SET_FIELD_LEN Invalid length of slave parameter set.
0xC0470104	TLR_E_DEVNET_FAL_PRED_MST_SL_ADD_LEN Invalid length of address table in parameter set.

Hexadecimal Value	Definition Description
0xC0470105	TLR_E_DEVNET_FAL_PRED_MSTSL_CFG_FIELD_LEN Invalid length of predefined master slave config table in parameter set.
0xC0470106	TLR_E_DEVNET_FAL_PRED_MST_SL_ADD_TAB_INCONS Inconsistency between address table and configured connection length.
0xC0470107	TLR_E_DEVNET_FAL_EXPL_PRM_FIELD_LEN Invalid Length of explicit parameter data in slave parameter set.
0xC0470108	TLR_E_DEVNET_FAL_PRED_MSTSL_CFG_ADD_INPUT_INCONS Inconsistency between number of input address offsets and configured input modules.
0xC0470109	TLR_E_DEVNET_FAL_PRED_MSTSL_CFG_ADD_OUTPUT_INCONS Inconsistency between number of output address offsets and configured output modules.
0xC047010A	TLR_E_DEVNET_FAL_UNKNOWN_DATA_TYPE Unknown data type in of the module definition.
0xC047010B	TLR_E_DEVNET_FAL_MODULE_DATA_SIZE Invalid data size in of the module definition.
0xC047010C	TLR_E_DEVNET_FAL_OUTPUT_OFF_RANGE Output address offset exceeds the maximum allowed area.
0xC047010D	TLR_E_DEVNET_FAL_INPUT_OFF_RANGE Input address offset exceeds the maximum allowed area.
0xC047010E	TLR_E_DEVNET_FAL_WRONG_TYPE_OF_CONNECTION Invalid type of connection configured.
0xC047010F	TLR_E_DEVNET_FAL_TYPE_CONNECTION_REDEFINITION Redefinition of connection type.
0xC0470110	TLR_E_DEVNET_FAL_EXP_PACKET_LESS_PROD_INHIBIT Configured 'Production Inhibit Time' is smaller then 'Expected Packet Rate'.
0xC0470111	TLR_E_DEVNET_FAL_PRM_FIELD_LEN_INCONSISTENT Invalid length of parameter field in slave parameter set.
0xC0470112	TLR_E_DEVNET_FAL_SET_BAUDRATE_FAIL Error while setting baudrate.
0xC0470113	TLR_E_DEVNET_FAL_REG_FRAG_TIMEOUT_OUT_OF_RANGE Invalid value of fragmentation timeout.
0xC0470114	TLR_E_DEVNET_FAL_PRM_OUT_MEMORY Out of memory for configuration data.
0xC0470211	TLR_E_DEVNET_FAL_CON_NA No response from device.
0xC0470215	TLR_E_DEVNET_FAL_CON_MDA Too much data received.
0xC0470233	TLR_E_DEVNET_FAL_CON_LE Invalid length of requested service.
0xC0470236	TLR_E_DEVNET_FAL_CON_AD Another service still active.
0xC0470239	TLR_E_DEVNET_FAL_CON_SE Sequence error in response sequence.
0xC0470240	TLR_E_DEVNET_FAL_CON_OC Explicite Message Handler is occupied.

Hexadecimal Value	Definition Description
0xC0470294	TLR_E_DEVNET_FAL_CON_ERR_RES Service Error Response.
0xC0470295	TLR_E_DEVNET_FAL_LIFELIST_IN_PROGRESS Lifelist request in progress.
0xC0470296	TLR_E_DEVNET_FAL_BTS_IN_PROGRESS Bit-strobe request in progress.
0xC0470297	TLR_E_DEVNET_FAL_BUS_NOT_ONLINE Bus not communicating.
0xC0471000	TLR_E_DEVNET_FAL_SLAVE_NOEXCHANGE Service Error Response.

Table 22: Status/Error Codes DevNet FAL – Task - DeviceNet Master Protocol API 05

11.3 Status/Error Codes CAN DL – Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC03F0001	TLR_E_CAN_DL_COMMAND_INVALID Invalid command.
0xC03F0002	TLR_E_CAN_DL_CMD_LENGTH_MISMATCH The length code of the command is invalid.
0xC03F0003	TLR_E_CAN_DL_UNKNOWN_PARAMETER_TYPE The parameter type of the command "Set Parameter" is invalid.
0xC03F0004	TLR_E_CAN_DL_SET_MODE_FAILED Within the command "Set Parameter" the function set "CAN Mode" failed.
0xC03F0005	TLR_E_CAN_DL_SET_BAUDRATE_FAILED Within the command "Set Parameter" the function set "Baudrate" failed.
0xC03F0006	TLR_E_CAN_DL_SET_TXABORT_TIME_FAILED Within the command "Set Parameter" the function set "Transmission Abort Timer" failed.
0xC03F0007	TLR_E_CAN_DL_SET_EVENTS_REQUESTED_FAILED Within the command "Set Parameter" the function set "Requested Events" failed.
0xC03F0008	TLR_E_CAN_DL_SET_FILTER_FAILED Within the command "Set Parameter" or "Set Filter the function set "CAN Filter" failed.
0xC03F0009	TLR_E_CAN_DL_SET_ENABLE_DISABLE_RXID_FAILED Within the command Enable or Disable of receive identifiers an error occurred.
0xC03F000A	TLR_E_CAN_DL_TX_FRAME_FAILED At least one CAN frame could not be sent. Normally because the send process was aborted by the transmission abort timer.
0xC03F000BL	TLR_E_CAN_DL_TX_BUFFER_OVERRUN The send request of CAN frames was rejected because the internal buffer for send requests is full.
0xC03F000CL	TLR_E_CAN_DL_UNKNOWN_DIAG_TYPE The diagnostic type of the command "Get Diag" is invalid.
0xC03F000DL	TRL_E_CAN_DL_TX_ABORT_ALREADY_IN_REQUEST The command "Transmission Abort" is already requested.
0xC03F000EL	TRL_E_CAN_DL_TX_ABORT The send process of can frames was aborted by "Transmission Abort" command.

Table 23: Status/Error Codes CAN DL – Task - DeviceNet Master Protocol API 05

12 DeviceNet Slave Protocol API

12.1 Error Codes of the FAL-Task

Hexadecimal value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0000001	TLR_E_FAIL Common error, detailed error information optionally present in the data area of packet
0xC0620001	TLR_E_DNS_FAL_DUPLICATE_MAC_ID Duplicate MAC ID found.
0xC0620002	TLR_E_DNS_FAL_INIT_TO_LESS_DATA Too less data for init command.
0xC0620003	TLR_E_DNS_FAL_FUNCTION_NOT_SUPPORTED Function not supported.
0xC0620006	TLR_E_DNS_FAL_PRM_ERR_CODE Invalid parameter in Init Stack request.
0xC0620007	TLR_E_DNS_FAL_BAUDRATE_OUT_RANGE Invalid Baudrate entered in Init Stack request.
0xC0620008	TLR_E_DNS_FAL_MAC_ID_OUT_RANGE Invalid MAC ID entered in Init Stack request.
0xC0620009	TLR_E_DNS_FAL_INVALID_PRODUCT_NAME Invalid Product Name Length entered in Init Stack request.
0xC062000A	TLR_E_DNS_FAL_INVALID_PRODUCED_SIZE Invalid Produced Size entered in Init Stack request.
0xC062000B	TLR_E_DNS_FAL_INVALID_CONSUMED_SIZE Invalid Consumed Size entered in Init Stack request.
0xC062000C	TLR_E_DNS_FAL_INVALID_MAJOR_REV Invalid Major Rev entered in Init Stack request.
0xC062000D	TLR_E_DNS_FAL_INVALID_MINOR_REV Invalid Minor Rev entered in Init Stack request.
0xC062000E	TLR_E_DNS_FAL_INVALID_VENDOR_ID Invalid Vendor ID entered in Init Stack request.
0xC062000F	TLR_E_DNS_FAL_INVALID_PRODUCT_TYPE Invalid Product Type entered in Init Stack request.
0xC0620010	TLR_E_DNS_FAL_INVALID_PRODUCT_CODE Invalid Product Code entered in Init Stack request.
0xC0620011	TLR_E_DNS_FAL_ALREADY_CONFIGURED Slave is already configured.
0xC0620012	TLR_E_DNS_FAL_SET_MODE_INVALID_MODE Invalid operation mode during Set Mode Request.
0xC0620013	TLR_E_DNS_FAL_SET_MODE_ALREADY_IN_REQUEST Slave is currently in the mode requested.
0xC0620014	TLR_E_DNS_FAL_GET_STATUS_INVALID_STATUS Reserved byte not set to zero.
0xC0620015	TLR_E_DNS_FAL_UPDATE_IO_INVALID_IN_LEN Invalid Input Length specified in Update I/O Command.

Hexadecimal value	Definition Description
0xC0620016	TLR_E_DNS_FAL_UPDATE_IO_INVALID_OUT_LEN Invalid Output Length specified in Update I/O Command.
0xC0620017	TLR_E_DNS_FAL_UPDATE_IO_INVALID_OUT_OFFSET Invalid Output Offset specified in Update I/O Command.
0xC0620018	TLR_E_DNS_FAL_UPDATE_IO_INVALID_IN_OFFSET Invalid Input Offset specified in Update I/O Command.
0xC0620019	TLR_E_DNS_FAL_SET_INPUT_INVALID_IN_LEN Invalid Input Length specified in Set Input Command.
0xC062001A	TLR_E_DNS_FAL_SET_INPUT_INVALID_IN_OFFSET Invalid Input Offset specified in Set Input Command.
0xC062001B	TLR_E_DNS_FAL_GET_OUTPUT_INVALID_OUT_LEN Invalid Output Length specified in Get Output Command.
0xC062001C	TLR_E_DNS_FAL_GET_OUTPUT_INVALID_OUT_OFFSET Invalid Output Offset specified in Get Output Command.
0xC062001E	TLR_E_DNS_FAL_DOWNLOAD_INVALID_AREA_CODE Invalid download area specified.
0xC062001F	TLR_E_DNS_FAL_DOWNLOAD_INVALID_SEQUENCE Invalid Download Sequence.
0xC0620020	TLR_E_DNS_FAL_DOWNLOAD_TO_MUCH_DATA Too much data received.
0xC0620021	TLR_E_DNS_FAL_DOWNLOAD_TO_LESS_DATA Not enough data received during the download.
0xC0620022	TLR_E_DNS_FAL_NO_CONFIGURATION No configuration.
0xC0620023	TLR_E_DNS_FAL_BUS_OFF_STATE No configuration.
0xC0620024	TLR_E_DNS_FAL_NO_NETWORK No network access.
0xC0620025	TLR_E_DNS_FAL_BUS_STOP Communication not released by application (BUS Stop).
0xC0620026	TLR_E_DNS_FAL_NO_COMMUNICATION No communication.
0xC0620027	TLR_E_DNS_FAL_SERVICE_DATA_LENGTH_INVALID Invalid length of service data.
0xC0620028	TLR_E_DNS_FAL_USER_OBJ_CONFIGURED User object already configured.
0xC0620029	TLR_E_DNS_FAL_USER_OBJ_LOCKED User object is locked and cannot be passed through.
0xC062002A	TLR_E_DNS_FAL_USER_OBJ_ALREADY_REGISTERED User object has already been registered.
0xC062002B	TLR_E_DNS_FAL_USER_OBJ_NOT_REGISTERED User object has not been registered.

Table 24: Error Codes of the FAL-Task - DeviceNet Slave Protocol API 08

12.2 Error Codes of the AP-Task

Hexadecimal value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0000001	TLR_E_FAIL Common error, detailed error information optionally present in the data area of packet
0xC0630000	TLR_E_DNS_APS_NOTREGISTERED User Application not registered.
0xC0630001	TLR_E_DNS_APS_ALREADY_REGISTERED User Application already registered.
0xC0630003	TLR_E_DNS_APS_ACCESS_FAIL Unregister application queue access failed.
0xC0630004	TLR_E_DNS_APS_CONFIG_LOCK Function not allowed because configuration locked.
0xC0630005	TLR_E_DNS_AP_NO_DATA_BASE No data base available.
0xC0630006	TLR_E_DNS_AP_OPEN_DATA_BASE Error open database.
0xC0630007	TLR_E_DNS_AP_IV_DNS_DATA_BASE Not a valid DeviceNet Slave database.
0xC0630008	TLR_E_DNS_AP_READ_DATA_BASE_TBL_GLB Error while reading table GLOBAL.
0xC0630009	TLR_E_DNS_AP_OPEN_DATA_BASE_TBL_GLB Error while open table GLOBAL.
0xC063000A	TLR_E_DNS_AP_OPEN_DATA_BASE_TBL_DNS Error while open table DNS.
0xC063000B	TLR_E_DNS_AP_READ_DATA_BASE_TBL_DNS Error while reading table DNS.

Table 25: Error Codes of the AP-Task - DeviceNet Slave Protocol API 08

12.3 Error Codes of the CAN_DL-Task

Hexadecimal value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0000001	TLR_E_FAIL Common error, detailed error information optionally present in the data area of packet
0xC03F0001	TLR_E_CAN_DL_COMMAND_INVALID Invalid command.
0xC03F0002	TLR_E_CAN_DL_CMD_LENGTH_MISMATCH The length code of the command is invalid.
0xC03F0003	TLR_E_CAN_DL_UNKNOWN_PARAMETER_TYPE The parameter type of the command "Set Parameter" is invalid.
0xC03F0004	TLR_E_CAN_DL_SET_MODE_FAILED Within the command "Set Parameter" the function set "CAN Mode" failed.
0xC03F0005	TLR_E_CAN_DL_SET_BAUDRATE_FAILED Within the command "Set Parameter" the function set "Baudrate" failed.
0xC03F0006	TLR_E_CAN_DL_SET_TXABORT_TIME_FAILED Within the command "Set Parameter" the function set "Transmission Abort Timer" failed.
0xC03F0007	TLR_E_CAN_DL_SET_EVENTS_REQUESTED_FAILED Within the command "Set Parameter" the function set "Requested Events" failed.
0xC03F0008	TLR_E_CAN_DL_SET_FILTER_FAILED Within the command "Set Parameter" or "Set Filter the function set "CAN Filter" failed.
0xC03F0009	TLR_E_CAN_DL_SET_ENABLE_DISABLE_RXID_FAILED Within the command Enable or Disable of receive identifiers an error occurred.
0xC03F000A	TLR_E_CAN_DL_TX_FRAME_FAILED At least one CAN frame could not be send. Normally because the send process was aborted by the transmission abort timer.
0xC03F000B	TLR_E_CAN_DL_TX_BUFFER_OVERRUN The send request of CAN frames was rejected because the internal buffer for send requests is full.
0xC03F000C	TLR_E_CAN_DL_UNKNOWN_DIAG_TYPE The diagnostic type of the command "Get Diag" is invalid.
0xC03F000D	TRL_E_CAN_DL_TX_ABORT_ALREADY_IN_REQUEST The command "Transmission Abort" is already requested.
0xC03F000E	TRL_E_CAN_DL_TX_ABORT The send process of CAN frames was aborted by "Transmission Abort" command.

Table 26: Error Codes of the CAN_DL-Task - DeviceNet Slave Protocol API 08

13 EtherCAT Master Protocol API

13.1 Error Codes of the EtherCAT Master Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0650001	TLR_E_ETHERCAT_MASTER_COMMAND_INVALID Invalid command received.
0xC0650002	TLR_E_ETHERCAT_MASTER_NO_LINK No link exists.
0xC0650003	TLR_E_ETHERCAT_MASTER_ERROR_READING_BUSCONFIG Error during reading the bus configuration.
0xC0650004	TLR_E_ETHERCAT_MASTER_ERROR_PARSING_BUSCONFIG Error during processing the bus configuration.
0xC0650005	TLR_E_ETHERCAT_MASTER_ERROR_BUSSCAN_FAILED Existing bus does not match configured bus.
0xC0650006	TLR_E_ETHERCAT_MASTER_NOT_ALL_SLAVES_AVAIL Not all slaves are available.
0xC0650007	TLR_E_ETHERCAT_MASTER_STOPMASTER_ERROR Error during Reset (stopping the master).
0xC0650008	TLR_E_ETHERCAT_MASTER_DEINITMASTER_ERROR Error during Reset (deinitialize the master).
0xC0650009	TLR_E_ETHERCAT_MASTER_CLEANUP_ERROR Error during Reset (cleanup the dynamic resources).
0xC065000A	TLR_E_ETHERCAT_MASTER_CRITIAL_ERROR_STATE Master is in critical error state, reset required.
0xC065000B	TLR_E_ETHERCAT_MASTER_INVALID_BUSCYCLETIME The requested bus cycle time is invalid.
0xC065000C	TLR_E_ETHERCAT_MASTER_INVALID_BROKEN_SLAVE_BEHAVIOUR_PARA Invalid parameter for broken slave behaviour.
0xC065000D	TLR_E_ETHERCAT_MASTER_WRONG_INTERNAL_STATE Master is in wrong internal state.
0xC065000E	TLR_E_ETHERCAT_MASTER_WATCHDOG_TIMEOUT_EXPIRED The watchdog expired.
0xC065000F	TLR_E_ETHERCAT_MASTER_COE_INVALID_SLAVEID Invalid SlaveId was used for CoE.
0xC0650010	TLR_E_ETHERCAT_MASTER_COE_NO_RESOURCE No available resources for CoE Transfer.
0xC0650011	TLR_E_ETHERCAT_MASTER_COE_INTERNAL_ERROR Internal error during CoE usage.
0xC0650012	TLR_E_ETHERCAT_MASTER_COE_INVALID_INDEX Invalid Index on Slave requested.
0xC0650013	TLR_E_ETHERCAT_MASTER_COE_INVALID_COMMUNICATION_STATE Invalid bus communication state for CoE-Usage.
0xC0650014	TLR_E_ETHERCAT_MASTER_COE_FRAME_LOST Frame with CoE data is lost.

Hexadecimal Value	Definition Description
0xC0650015	TLR_E_ETHERCAT_MASTER_COE_TIMEOUT Timeout during CoE service.
0xC0650016	TLR_E_ETHERCAT_MASTER_COE_SLAVE_NOT_ADDRESSABLE Slave is not addressable (not on bus or power down?).
0xC0650017	TLR_E_ETHERCAT_MASTER_COE_INVALID_LIST_TYPE Invalid list type requested (during GetOdList).
0xC0650018	TLR_E_ETHERCAT_MASTER_COE_SLAVE_RESPONSE_TOO_BIG Data in Slave Response is too big for confirmation packet.
0xC0650019	TLR_E_ETHERCAT_MASTER_COE_INVALID_ACCESSBITMASK Invalid access mask selected (during GetEntryDesc).
0xC065001A	TLR_E_ETHERCAT_MASTER_COE_WKC_ERROR Slave Working Counter Error during CoE service.
0xC065001B	TLR_E_ETHERCAT_MASTER_SERVICE_IN_USE The service is already in use.
0xC065001C	TLR_E_ETHERCAT_MASTER_INVALID_COMMUNICATION_STATE Command is not usable in the communication state.
0xC065001D	TLR_E_ETHERCAT_MASTER_DC_NOT_ACTIVATED Distributed Clocks must be activated for this command.
0xC065001E	TLR_E_ETHERCAT_MASTER_BUS_SCAN_CURRENTLY_RUNNING The scan is already running. It cannot be started twice at the same time.
0xC065001F	TLR_E_ETHERCAT_MASTER_BUS_SCAN_TIMEOUT Timeout during bus scan. But at least a link is established.
0xC0650020	TLR_E_ETHERCAT_MASTER_BUS_SCAN_NOT_READY_YET The bus scan was not started before or is not finish yet.
0xC0650021	TLR_E_ETHERCAT_MASTER_BUS_SCAN_INVALID_SLAVE The requested slave is invalid.
0xC0650022	TLR_E_ETHERCAT_MASTER_COE_INVALIDACCESS Slave does not allow reading or writing (CoE-Access).
0xC0650023	TLR_E_ETHERCAT_MASTER_COE_NO_MBX_SUPPORT Slave does not support a mailbox.
0xC0650024	TLR_E_ETHERCAT_MASTER_COE_NO_COE_SUPPORT Slave does not support CoE.
0xC0650025	TLR_E_ETHERCAT_MASTER_TASK_CREATION_FAILED Task could not be created during runtime.
0xC0650026	TLR_E_ETHERCAT_MASTER_INVALID_SLAVE_SM_CONFIGURATION The Sync Manager configuration of a slave is invalid.
0xC0650027	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_TOGGLE SDO abort code: Toggle bit not alternated.
0xC0650028	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_TIMEOUT DO abort code: SDO protocol timed out.
0xC0650029	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_CCS_SCS SDO abort code: Client/server command specifier not valid or unknown.
0xC065002A	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_BLK_SIZE SDO abort code: Invalid block size (block mode only).
0xC065002B	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_SEQNO SDO abort code: Invalid sequence number (block mode only).

Hexadecimal Value	Definition Description
0xC065002C	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_CRC SDO abort code: CRC error (block mode only).
0xC065002D	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_MEMORY SDO abort code: Out of memory.
0xC065002E	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_ACCESS SDO abort code: Unsupported access to an object.
0xC065002F	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_WRITEONLY SDO abort code: Attempt to read a write only object.
0xC0650030	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_READONLY SDO abort code: Attempt to write a read only object.
0xC0650031	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_INDEX SDO abort code: Object does not exist in the object dictionary.
0xC0650032	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_PDO_MAP SDO abort code: Object cannot be mapped to the PDO.
0xC0650033	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_PDO_LEN SDO abort code: The number and length of the objects to be mapped would exceed PDO length.
0xC0650034	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_P_INCOMP SDO abort code: General parameter incompatibility reason.
0xC0650035	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_I_INCOMP SDO abort code: General internal incompatibility in the device.
0xC0650036	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_HARDWARE SDO abort code: Access failed due to an hardware error.
0xC0650037	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_DATA_SIZE SDO abort code: Data type does not match, length of service parameter does not match.
0xC0650038	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_DATA_SIZE1 SDO abort code: Data type does not match, length of service parameter too high.
0xC0650039	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_DATA_SIZE2 SDO abort code: Data type does not match, length of service parameter too low.
0xC065003A	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_OFFSET SDO abort code: Sub-index does not exist.
0xC065003B	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_DATA_RANGE SDO abort code: Value range of parameter exceeded (only for write access).
0xC065003C	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_DATA_RANGE1 SDO abort code: Value of parameter written too high.
0xC065003D	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_DATA_RANGE2 SDO abort code: Value of parameter written too low.
0xC065003E	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_MINMAX SDO abort code: Maximum value is less than minimum value.
0xC065003F	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_GENERAL SDO abort code: general error.
0xC0650040	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_TRANSFER SDO abort code: Data cannot be transferred or stored to the application.
0xC0650041	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_TRANSFER1 SDO abort code: Data cannot be transferred or stored to the application because of local control.

Hexadecimal Value	Definition Description
0xC0650042	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_TRANSFER2 SDO abort code: Data cannot be transferred or stored to the application because of the present device state.
0xC0650043	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_DICTIONARY SDO abort code: Object dictionary dynamic generation fails or no object dictionary is present (e.g. object dictionary is generated from file and generation fails because of a file error).
0xC0650044	TLR_E_ETHERCAT_MASTER_SDO_ABORTCODE_UNKNOWN SDO abort code: unknown code.
0xC0650045	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_ERROR Slave status code: Unspecified error.
0xC0650046	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVREQSTATECNG Slave status code: Invalid requested state change.
0xC0650047	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_UNKREQSTATE Slave status code: Unknown requested state.
0xC0650048	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_BOOTSTRAPNSUPP Slave status code: Bootstrap not supported.
0xC0650049	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_NOVALIDFW Slave status code: No valid firmware.
0xC065004A	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVALIDMBXCNF1 Slave status code: Invalid mailbox configuration1.
0xC065004B	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVALIDMBXCNF2 Slave status code: Invalid mailbox configuration2.
0xC065004C	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVALIDSMCNF Slave status code: Invalid sync manager configuration.
0xC065004D	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_NOVALIDIN Slave status code: No valid inputs available.
0xC065004E	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_NOVALIDOUT Slave status code: No valid outputs.
0xC065004F	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_SYNCERROR Slave status code: Synchronization error.
0xC0650050	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_SMWATCHDOG Slave status code: Sync manager watchdog.
0xC0650051	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVSMTYPES Slave status code: Invalid Sync Manager Types.
0xC0650052	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVOUTCONFIG Slave status code: Invalid Output Configuration.
0xC0650053	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVINCONFIG Slave status code: Invalid Input Configuration.
0xC0650054	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVWDCONFIG Slave status code: Invalid Watchdog Configuration.
0xC0650055	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_SLVNEEDCOLDRS Slave status code: Slave needs cold start.
0xC0650056	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_SLVNEEDINIT Slave status code: Slave needs INIT.
0xC0650057	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_SLVNEEDPREOP Slave status code: Slave needs PREOP.
0xC0650058	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_SLVNEEDSAFEOP Slave status code: Slave needs SAFEOP.

Hexadecimal Value	Definition Description
0xC0650059	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVOUTFMMUCNFG Slave status code: Invalid Output FMMU Configuration.
0xC065005A	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVINFMMUCNFG Slave status code: Invalid Input FMMU Configuration.
0xC065005B	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVDCSYNCCNFG Slave status code: Invalid DC SYNCH Configuration.
0xC065005C	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVDCATCHCNFG Slave status code: Invalid DC Latch Configuration.
0xC065005D	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_PLLERROR Slave status code: PLL Error.
0xC065005E	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVDCIOERROR Slave status code: Invalid DC IO Error.
0xC065005F	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVDCOERROR Slave status code: Invalid DC Timeout Error.
0xC0650060	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_MBX_EOE Slave status code: MBX_EOE.
0xC0650061	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_MBX_COE Slave status code: MBX_COE.
0xC0650062	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_MBX_FOE Slave status code: MBX_FOE.
0xC0650063	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_MBX_SOE Slave status code: MBX_SOE.
0xC0650064	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_MBX_VOE Slave status code: MBX_VOE.
0xC0650065	TLR_E_ETHERCAT_MASTER_DEVICE_STATUSCODE_OTHER Slave status code: vendor specific error code.
0xC0650066	TLR_E_ETHERCAT_MASTER_PREVIOUS_PORT_MISSING Slave status code: PreviousPort configuration missing in bus configuration file (outdated configurator).

Table 27: Status/Error Codes of the EtherCAT Master Stack – Task - EtherCAT Master Protocol API 10

13.2 Error Codes of the EtherCAT Master AP-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0640001	TLR_E_ETHERCAT_MASTER_AP_COMMAND_INVALID Invalid command received.
0xC0640002	TLR_E_ETHERCAT_MASTER_AP_DPM_WATCHDOG_TIMEOUT_EXPIRED The watchdog expired.
0xC0640003	TLR_E_ETHERCAT_MASTER_AP_WATCHDOG_TIME_TOO_SMALL The requested Watchdog time is too small.
0xC0640004	TLR_E_ETHERCAT_MASTER_AP_WATCHDOG_TIME_TOO_LARGE The requested Watchdog time is too large.
0xC0640005	TLR_E_ETHERCAT_MASTER_AP_WATCHDOG_RESET_ERROR Error during Reset (resetting watchdog).
0xC0640006	TLR_E_ETHERCAT_MASTER_AP_CLEANUP_ERROR Error during Reset (cleanup the dynamic resources).
0xC0640007	TLR_E_ETHERCAT_MASTER_AP_CRITIAL_ERROR_STATE Master is in critical error state, reset required.
0xC0640008	TLR_E_ETHERCAT_MASTER_AP_WATCHDOG_ACTIVATE_ERROR Error activating the watchdog.
0xC0640009	TLR_E_ETHERCAT_MASTER_AP_INPUT_DATA_TOO_LARGE Size of configured input data is larger as cyclic DPM input data size.
0xC064000A	TLR_E_ETHERCAT_MASTER_AP_OUTPUT_DATA_TOO_LARGE Size of configured output data is larger as cyclic DPM output data size.
0xC064000B	TLR_E_ETHERCAT_MASTER_AP_ENABLE_BUS_SYNC_FAILED Bus Synchronous could not be activated.
0xC064000C	TLR_E_ETHERCAT_MASTER_AP_TASK_CREATION_FAILED Task could not be created during runtime.

Table 28: Error Codes of the EtherCAT Master AP-Task – Task - EtherCAT Master Protocol API 10

14 EtherCAT Slave Protocol API

14.1 Status/Error Codes of Base Stack

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC0200006	TLR_E_ECAT_BASE_TOO_MANY_ALCONTROL_RECEIVERS The ALcontrol notify table is full
0xC0200007	TLR_E_ECAT_BASE_QUEUE_DOES_NOT_EXIST The name does not refer to an existing queue
0xC020000A	TLR_E_ECAT_BASE_DEADSLAVE_CALLBACK_TABLE_FULL The DeadSlave callback table is full
0xC020000B	TLR_E_ECAT_BASE_NO_SUCH_ETHERCAT_STACK_NAME The name does not exist in the EtherCAT stack instance list
0xC020000C	TLR_E_ECAT_BASE_DUPLICATE_ETHERCAT_STACK_NAME The name exists already in the EtherCAT stack instance list
0xC020000D	TLR_E_ECAT_BASE_DYNAMICDATA_INVALID The dynamic data allocation for the EtherCAT stack handle failed
0xC020000E	TLR_E_ECAT_BASE_INVALID_TIMEOUT_PARAMS The timeouts specified to be set are not valid
0xC020000F	TLR_E_ECAT_BASE_NOT_ENOUGH_MEMORY Not enough memory to complete the operation
0xC0200010	TLR_E_ECAT_BASE_INVALID_ALSTATUS_STATE_CHANGE Not enough memory.
0xC0200011	TLR_E_ECAT_BASE_NO_DATA_AVAILABLE Not enough memory.
0xC0200012	TLR_E_ECAT_BASE_ALREADY_CONNECTED Not enough memory.
0x00230002	TLR_E_ECAT_EOE_VIRTUAL_SWITCH_NOT_PRESENT No virtual switch associated with EtherCAT stack handle
0x00230003	TLR_S_ECAT_EOE_IP_CONFIG_DATA_NOT_VALID The call completed successfully. However, the IP config data block is not valid.
0xC0230004	TLR_E_ECAT_EOE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters tried to be set
0xC0230005	TLR_E_ECAT_EOE_PARAM_UNSPECIFIED_ERROR Unspecified Error.
0xC0230006	TLR_E_ECAT_EOE_PARAM_UNSUPPORTED_FRAME_TYPE Unsupported Frame Type.
0xC0230007	TLR_E_ECAT_EOE_PARAM_NO_IP_SUPPORT No IP Support.
0xC0230008	TLR_E_ECAT_EOE_PARAM_NO_FILTER_SUPPORT No Filter Support.
0xC0240001	TLR_E_ECAT_FOE_COMMAND_INVALID Invalid command.
0x80240002	TLR_W_ECAT_FOE_INVALID_OPCODE Invalid FoE opcode.

Hexadecimal Value	Definition Description
0xC0240003	TLR_E_ECAT_FOE_UNKNOWN_FILESYSTEM Unknown filesystem.
0x40240004	TLR_I_ECAT_FOE_CONFIG_INTERFACE_NOT_INITIALIZED configuration interface not initialized.
0xC0240005	TLR_E_ECAT_FOE_INVALID_TIMEOUT_PARAMS The application tried to set invalid timeout parameters
0xC0250001	TLR_E_ECAT_AOE_COMMAND_INVALID Invalid command.
0x40250002	TLR_I_ECAT_AOE_CONFIG_INTERFACE_NOT_INITIALIZED configuration interface not initialized.
0xC0250003	TLR_E_ECAT_AOE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters.
0xC0260001	TLR_E_ECAT_VOE_COMMAND_INVALID Invalid command.
0x80260002	TLR_W_ECAT_VOE_NO_RECEIVER_FOR_VENDOR_PROFILE No receiver for vendor profile.
0xC0260003	TLR_E_ECAT_VOE_VENDOR_PROFILE_ALREADY_REGISTERED The vendor profile is already registered by someone else
0xC0260004	TLR_E_ECAT_VOE_VENDOR_PROFILE_NOT_REGISTERED Vendor profile is not registered.
0xC0260005	TLR_E_ECAT_VOE_OUT_OF_MEMORY Not enough memory to complete the operation
0xC0260006	TLR_E_ECAT_VOE_COULD_NOT_SEND_MBX_MESSAGE ECAT_VOE task could not send the message
0xC0260007	TLR_E_ECAT_VOE_NOT_ENOUGH_MEMORY Not enough memory.
0xC0280001	TLR_E_OD2_OBJECT_IN_USE The object is locked. I.e. the object cannot be deleted.
0xC0280002	TLR_E_OD2_INVALID_SUBINDEX The sub-object does not exist in the object.
0xC0280003	TLR_E_OD2_INVALID_DATATYPE The data type is not valid
0xC0280004	TLR_E_OD2_INVALID_BUFFER_PTR The buffer pointer is not valid i.e. a null pointer.
0xC0280005	TLR_E_OD2_INVALID_SECTOR The sector, which holds the sector, does not exist.
0xC0280006	TLR_E_OD2_INVALID_SUBSECTOR The sub sector, which holds the object, does not exist.
0xC0280007	TLR_E_OD2_INVALID_OBJECT The object does not exist
0xC0280008	TLR_E_OD2_INVALID_INDEX The object does not exist
0xC028000F	TLR_E_OD2_NOT_ENOUGH_MEMORY There was not enough memory available to perform the function call.
0xC0280010	TLR_E_OD2_CALLBACK_IS_LOCKED The callback is locked against changing

Hexadecimal Value	Definition Description
0xC0280011	TLR_E_OD2_DATATYPE_LENGTH_TOO_LONG Data type length is too long.
0xC0280012	TLR_E_OD2_PDO_LENGTH_WOULD_EXCEED PDO length would exceed maximum transfer size.
0xC0280013	TLR_E_OD2_OBJECT_CANNOT_BE_PDO_MAPPED An object cannot be mapped in a PDO.
0xC0280014	TLR_E_OD2_BUFFER_TOO_BIG Buffer too big.
0xC0280015	TLR_E_OD2_UNSUPPORTED_ACCESS Unsupported Access.
0xC0280016	TLR_E_OD2_VALUE_WRITTEN_TOO_HIGH Value written too high.
0xC0280017L)	TLR_E_OD2_VALUE_WRITTEN_TOO_LOW Value written too low.
0xC0280018	TLR_E_OD2_OBJECT_ALREADY_EXISTS Object already exists.
0xC0280019	TLR_E_OD2_SUBOBJECT_ALREADY_EXISTS Sub-Object already exists.
0xC028001A	TLR_E_OD2_SUBOBJECT_DOES_NOT_EXIST Sub-Object does not exist.
0xC028001B	TLR_E_OD2_OBJECT_CREATION_LOCKED Object creation locked.
0xC04C0002	TLR_E_ECAT_DPM_INVALID_IO_SIZE Invalid I/O size was tried to be configured

Table 29: Status/Error Codes Summary of Base Stack - EtherCAT Slave Protocol API 14

14.2 Status/Error Codes of CoE Stack

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC0210001	TLR_E_ECAT_COE_COMMAND_INVALID Invalid command received.
0x80210002	TLR_W_ECAT_COE_NO_SERVICE_RECEIVER_CONNECTED No CoE Service receiver connected.
0xC0210003	TLR_E_ECAT_COE_INVALID_SERVICE_TYPE Invalid CoE service type id.
0xC0210004	TLR_E_ECAT_COE_ALREADY_CONNECTED CoE service already connected.
0xC0210005	TLR_E_ECAT_COE_QUEUE_DOES_NOT_EXIST Queue does not exist.
0xC0210006	TLR_E_ECAT_COE_PDO_INVALID_ID Invalid PDO Id.
0xC0210007	TLR_E_ECAT_COE_PDO_UNDEFINED_ID Undefined PDO Id.
0xC0210008	TLR_E_ECAT_COE_PDO_MAPPING_FAILED_DUE_TO_MISSING_OBJECT PDO Mapping failed due to missing object.
0xC0210009	TLR_E_ECAT_COE_SDO_PROTOCOL_TIMEOUT SDO Protocol timeout
0xC021000A	TLR_E_ECAT_COE_SDO_SCS_SPECIFIER_INVALID Client/Server command specifier not valid or unknown
0xC021000B	TLR_E_ECAT_COE_SDO_OUT_OF_MEMORY Out of Memory
0xC021000C	TLR_E_ECAT_COE_SDO_UNSUPPORTED_ACCESS_TO_OBJECT Unsupported access to an object
0xC021000D	TLR_E_ECAT_COE_SDO_ATTEMPT_TO_READ_A_WRITE_ONLY_OBJECT Attempt to read a write only object
0xC021000E	TLR_E_ECAT_COE_SDO_ATTEMPT_TO_WRITE_A_READ_ONLY_OBJECT Attempt to write a read only object
0xC021000F	TLR_E_ECAT_COE_SDO_OBJECT_DOES_NOT_EXIST The object does not exist in the object dictionary
0xC0210010	TLR_E_ECAT_COE_SDO_OBJECT_CAN_NOT_BE_MAPPED_INTO_THE_PDO The object can not be mapped into the PDO
0xC0210011	TLR_E_ECAT_COE_SDO_OBJECTS_WOULD_EXCEED_PDO_LENGTH The number and length of the objects to be mapped would exceed the PDO length
0xC0210012	TLR_E_ECAT_COE_SDO_GENERAL_PARAMETER_INCOMPATIBILITY_REASON General parameter incompatibility reason
0xC0210013	TLR_E_ECAT_COE_SDO_GENERAL_INTERNAL_INCOMPATIBILITY_IN_DEVICE General internal incompatibility in the device
0xC0210014	TLR_E_ECAT_COE_SDO_ACCESS_FAILED_DUE_TO_A_HARDWARE_ERROR Access failed due to a hardware error
0xC0210015	TLR_E_ECAT_COE_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_DOES_NOT_MATCH Data type does not match, length of service parameter does not match

Hexadecimal Value	Definition Description
0xC0210016	TLR_E_ECACOE_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_TOO_HIGH Data type does not match, length of service parameter too high
0xC0210017	TLR_E_ECACOE_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_TOO_LOW Data type does not match, length of service parameter too low
0xC0210018	TLR_E_ECACOE_SDO_SUBINDEX_DOES_NOT_EXIST Sub index does not exist
0xC0210019	TLR_E_ECACOE_SDO_VALUE_RANGE_OF_PARAMETER_EXCEEDED Value range of parameter exceeded
0xC021001A	TLR_E_ECACOE_SDO_VALUE_OF_PARAMETER_WRITTEN_TOO_HIGH Value of parameter written too high
0xC021001B	TLR_E_ECACOE_SDO_VALUE_OF_PARAMETER_WRITTEN_TOO_LOW Value of parameter written too low
0xC021001C	TLR_E_ECACOE_SDO_MAXIMUM_VALUE_IS_LESS_THAN_MINIMUM_VALUE Maximum value is less than minimum value
0xC021001D	TLR_E_ECACOE_SDO_GENERAL_ERROR General error
0xC021001E	TLR_E_ECACOE_SDO_DATA_CANNOT_BE_TRANSFERRED_OR_STORED_TO_THE_APPLICATION Data cannot be transferred or stored to the application
0xC021001F	TLR_E_ECACOE_SDO_DATA_NO_TRANSFER_DUE_TO_LOCAL_CONTROL Data cannot be transferred or stored to the application because of local control
0xC0210020	TLR_E_ECACOE_SDO_DATA_NO_TRANSFER_DUE_TO_PRESENT_DEVICE_STATE Data cannot be transferred or stored to the application because of present device state
0xC0210021	TLR_E_ECACOE_SDO_NO_OBJECT_DICTIONARY_PRESENT Object dictionary dynamic generation fails or no object dictionary present
0xC0210022	TLR_E_ECACOE_SDO_UNKNOWN_ABORT_CODE Unknown SDO abort code
0xC0210023	TLR_E_ECACOE_SDO_TOGGLE_BIT_NOT_TOGGLED SDO toggle bit was not toggled
0xC0210024	TLR_E_ECACOE_SDO_CLIENT_STACK_BUSY SDO client stack busy
0xC0210025	TLR_E_ECACOE_SDO_CLIENT_STACK_NO_TRANSFER SDO client stack has no active transfer identified by station address
0xC0210026	TLR_E_ECACOE_PDO_SUBOBJECT_PTR_UNALIGNED Subobject data pointer is unaligned.
0xC0210027	TLR_E_ECACOE_COULD_NOT_SEND_MBX_MESSAGE The mailbox specific message could not be sent.
0xC0210028	TLR_E_ECACOE_INVALID_MBX_MESSAGE Invalid mailbox message
0xC0210029	TLR_E_ECACOE_NO_OBJECT_DICTIONARY_PRESENT No object dictionary available to access
0x8021002C	TLR_W_ECACOE_NO_OUTPUT_DATA No output data defined by PDO mapping and Sync Manager Assignment
0xC021002D	TLR_E_ECACOE_INVALID_TIMEOUT_PARAMS The application tried to set invalid timeout parameters

Hexadecimal Value	Definition Description
0xC021002E	TLR_E_ECAT_COE_SHUTDOWN_ACTIVE Shutdown on task is active.
0xC021002F	TLR_E_ECAT_COE_OD_NOTIFY_TABLE_FULL OD Notify Table Full.
0xC0210030	TLR_E_ECAT_COE_OD_UNDEFINED_NOTIFY_APPLICATION_ALREADY_REGISTERED An application already registered for the Undefined object notify.
0xC0210031	TLR_E_ECAT_COE_OD_SDOINFO_NOTIFY_APPLICATION_ALREADY_REGISTERED An application already registered for the SDOInfo packet hook.
0xC0210032	TLR_E_ECAT_COE_OD_DPM_MODE_OBJECTS_CAN_ONLY_BE_READONLY DPM Mode Objects can only be set readonly.
0xC0210033	TLR_E_ECAT_COE_OD_DPM_MODE_OBJECTS_DIRECTION_PARAMETER_INVALID Invalid direction parameter for DPM Mode Objects.
0xC0210034	TLR_E_ECAT_COE_OD_DPM_MODE_SUBOBJECT_OFFSET_OUT_OF_RANGE Invalid offset parameter for DPM Mode Objects.

Table 30: Status/Error Codes Summary of CoE Stack - EtherCAT Slave Protocol API 14

14.3 Status/Error Codes of SoE Stack

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC0220001	TLR_E_ECAT_SOE_COMMAND_INVALID Invalid command.
0x40220002	TLR_I_ECAT_SOE_CONFIG_INTERFACE_NOT_INITIALIZED Configuration interface not initialized.
0xC0220003	TLR_E_ECAT_SOE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters.
0xC0220004	TLR_E_ECAT_SOE_IDN_ALREADY_EXISTS The IDN already exists
0xC0220005	TLR_E_ECAT_SOE_IDN_ATTRIBUTE_INVALID The attribute is invalid
0xC0220006	TLR_E_ECAT_SOE_IDN_INVALID_MAX_DATA_SIZE_SPECIFIED Invalid Max Data Size specified
0xC0220007	TLR_E_ECAT_SOE_IDN_DRIVE_NUMBER_INVALID Drive number is invalid
0xC0220008	TLR_E_ECAT_SOE_IDN_UNDEFINED_NOTIFY_ALREADY_IN_USE The undefined IDN notify mechanism is already in use
0xC0220009	TLR_E_ECAT_SOE_IDN_INVALID_ELEMENT_ID Invalid element id
0xC022000A	TLR_E_ECAT_SOE_IDN_APP_PACKET_RESPONSE_INVALID App Packet Response is invalid
0xC022000B	TLR_E_ECAT_SOE_IDN_APP_SSC_TRANSFER_TOO_LONG Transfer of data is longer than expected
0xC022000C	TLR_E_ECAT_SOE_IDN_APP_SSC_TRANSFER_LENGTH_WRONG The length of the transfer is wrong
0xC022000D	TLR_E_ECAT_SOE_IDN_APP_MTU_TOO_LOW Applications packet MTU is lower than the minimum required for IDN read/write functions
0xC022000E	TLR_E_ECAT_SOE_IDN_INVALID_DEST_ID Invalid Dest Id
0xC022000F	TLR_E_ECAT_SOE_IDN_LISTS_CANNOT_HAVE_A_MINIMUM_VALUE IDN lists cannot have a minimum value
0xC0220010	TLR_E_ECAT_SOE_IDN_LISTS_CANNOT_HAVE_A_MAXIMUM_VALUE IDN lists cannot have a maximum value
0xC0220011	TLR_E_ECAT_SOE_IDN_NAME_EXCEEDS_ALLOCATED_LENGTH IDN name exceeds allocated maximum length
0xC0220012	TLR_E_ECAT_SOE_IDN_UNIT_EXCEEDS_ALLOCATED_LENGTH IDN unit exceeds allocated maximum length
0xC0220013	TLR_E_ECAT_SOE_IDN_OPDATA_EXCEEDS_ALLOCATED_LENGTH OpData exceeds allocated maximum length
0xC0220014	TLR_E_ECAT_SOE_IDN_INVALID_MAX_LIST_LENGTH Invalid Max List Length
0xC0220015	TLR_E_ECAT_SOE_IDN_DEFAULT_VALUE_EXCEEDS_ALLOCATED_LENGTH Default Value exceeds allocated maximum length

Hexadecimal Value	Definition Description
0xC0220016	TLR_E_ECAT_SOE_IDN_MINIMUM_AND_MAXIMUM_VALUE_MUST_BE_USED_TOGETHER Minimum and Maximum value must be used together
0xC0220017	TLR_E_ECAT_SOE_IDN_USER_APPLICATION_TRANSFER_ERROR IDN user application transfer error
0xC0221001	TLR_E_ECAT_SOE_SSC_NO_IDN No IDN
0xC0221009	TLR_E_ECAT_SOE_SSC_INVALID_ACCESS_TO_ELEMENT_1 Invalid Access to Element 1 (returned at write address)
0xC0222001	TLR_E_ECAT_SOE_SSC_NO_NAME IDN has no name
0xC0222002	TLR_E_ECAT_SOE_SSC_NAME_TRANSMISSION_IS_TOO_SHORT Name transmission is too short
0xC0222003	TLR_E_ECAT_SOE_SSC_NAME_TRANSMISSION_IS_TOO_LONG Name transmission is too long
0xC0222004	TLR_E_ECAT_SOE_SSC_NAME_CANNOT_BE_CHANGED Name cannot be changed (read only)
0xC0222005	TLR_E_ECAT_SOE_SSC_NAME_IS_WRITE_PROTECTED_AT_THIS_TIME Name is currently write protected
0xC0223002	TLR_E_ECAT_SOE_SSC_ATTRIBUTE_TRANSMISSION_IS_TOO_SHORT Attribute transmission is too short
0xC0223003	TLR_E_ECAT_SOE_SSC_ATTRIBUTE_TRANSMISSION_IS_TOO_LONG Attribute transmission is too long
0xC0223004	TLR_E_ECAT_SOE_SSC_ATTRIBUTE_CANNOT_BE_CHANGED Attribute cannot be changed (read only)
0xC0223005	TLR_E_ECAT_SOE_SSC_ATTRIBUTE_IS_WRITE_PROTECTED_AT_THIS_TIME Attribute is currently write protected
0xC0224001	TLR_E_ECAT_SOE_SSC_NO_UNIT IDN has no unit
0xC0224002	TLR_E_ECAT_SOE_SSC_UNIT_TRANSMISSION_IS_TOO_SHORT Unit transmission is too short
0xC0224003	TLR_E_ECAT_SOE_SSC_UNIT_TRANSMISSION_IS_TOO_LONG Unit transmission is too long
0xC0224004	TLR_E_ECAT_SOE_SSC_UNIT_CANNOT_BE_CHANGED Unit cannot be changed (read only)
0xC0224005	TLR_E_ECAT_SOE_SSC_UNIT_IS_WRITE_PROTECTED_AT_THIS_TIME Unit is currently write protected
0xC0225001	TLR_E_ECAT_SOE_SSC_NO_MINIMUM_VALUE IDN has no minimum value
0xC0225002	TLR_E_ECAT_SOE_SSC_MINIMUM_VALUE_TRANSMISSION_IS_TOO_SHORT Minimum value transmission is too short
0xC0225003	TLR_E_ECAT_SOE_SSC_MINIMUM_VALUE_TRANSMISSION_IS_TOO_LONG Minimum value transmission is too long
0xC0225004	TLR_E_ECAT_SOE_SSC_MINIMUM_VALUE_CANNOT_BE_CHANGED Minimum value cannot be changed (read only)
0xC0225005	TLR_E_ECAT_SOE_SSC_MINIMUM_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME Minimum value is currently write protected

Hexadecimal Value	Definition Description
0xC0226001	TLR_E_ECAT_SOE_SSC_NO_MAXIMUM_VALUE IDN has no maximum value
0x00226002	TLR_E_ECAT_SOE_SSC_MAXIMUM_VALUE_TRANSMISSION_IS_TOO_SHORT Maximum value transmission is too short
0x00226003	TLR_E_ECAT_SOE_SSC_MAXIMUM_VALUE_TRANSMISSION_IS_TOO_LONG Maximum value transmission is too long
0xC0226004	TLR_E_ECAT_SOE_SSC_MAXIMUM_VALUE_CANNOT_BE_CHANGED Maximum value cannot be changed (read only)
0xC0226005	TLR_E_ECAT_SOE_SSC_MAXIMUM_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME Maximum value is currently write protected
0xC0227002	TLR_E_ECAT_SOE_SSC_OPDATA_TRANSMISSION_IS_TOO_SHORT Operation data transmission is too short
0xC0227003	TLR_E_ECAT_SOE_SSC_OPDATA_TRANSMISSION_IS_TOO_LONG Operation data transmission is too long
0xC0227004	TLR_E_ECAT_SOE_SSC_OPDATA_CANNOT_BE_CHANGED Operation data cannot be changed (read only)
0xC0227005	TLR_E_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_THIS_TIME Operation data is currently write protected
0xC0227006	TLR_E_ECAT_SOE_SSC_OPDATA_IS_LOWER_THAN_MINIMUM_VALUE Operation data is lower than minimum value
0xC0227007	TLR_E_ECAT_SOE_SSC_OPDATA_IS_HIGHER_THAN_MAXIMUM_VALUE Operation data is higher than maximum value
0xC0227008	TLR_E_ECAT_SOE_SSC_OPDATA_IS_INVALID Operation data is invalid
0xC0227009	TLR_E_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_BY_PASSWORD Operation data is write protected by password
0xC022700A	TLR_E_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_DUE_CYCLICALLY_CONFIGURED Operation data is write protected due to being cyclically configured
0xC022700B	TLR_E_ECAT_SOE_SSC_OPDATA_INVALID_INDIRECT_ADDRESSING Invalid indirect addressing
0xC022700C	TLR_E_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_DUE_OTHER_SETTINGS Operation data is write protected due to other settings
0xC022700D	TLR_E_ECAT_SOE_SSC_OPDATA_INVALID_FLOATING_POINT_NUMBER Invalid floating point number in operation data
0xC022700E	TLR_E_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_PARAMETERIZATION_LEVEL Operation data is write protected at parameterization level
0xC022700F	TLR_E_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_OPERATION_LEVEL Operation data is write protected at operation level
0xC0227010	TLR_E_ECAT_SOE_SSC_OPDATA_PROCEDURE_COMMAND_ALREADY_ACTIVE Procedure command already active
0xC0227011	TLR_E_ECAT_SOE_SSC_OPDATA_PROCEDURE_COMMAND_NOT_INTERRUPTIBLE Procedure command not interruptible

Hexadecimal Value	Definition Description
0xC0227012	TLR_E_ECAT_SOE_SSC_OPDATA_PROCEDURE_COMMAND_NOT_EXECUTABLE_AT_THIS_TIME Procedure command not executable at this time
0xC0227013	TLR_E_ECAT_SOE_SSC_OPDATA_PROCEDURE_COMMAND_NOT_EXECUTABLE_INVALID_PARAM Procedure command not executable invalid parameter
0xC0228001	TLR_E_ECAT_SOE_SSC_NO_DEFAULT_VALUE IDN has no default value
0xC0228002	TLR_E_ECAT_SOE_SSC_DEFAULT_VALUE_TRANSMISSION_IS_TOO_SHORT Default value transmission is too short
0xC0228003	TLR_E_ECAT_SOE_SSC_DEFAULT_VALUE_TRANSMISSION_IS_TOO_LONG Default value transmission is too long
0xC0228004	TLR_E_ECAT_SOE_SSC_DEFAULT_VALUE_CANNOT_BE_CHANGED Default Value cannot be changed (read only)

Table 31: Status/Error Codes Summary of SoE Stack - EtherCAT Slave Protocol API 14

15 EtherCAT Slave - industrialNETworX Image API

15.1 Status/Error Codes of Base Stack

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC0200004	TLR_E_ECAT_BASE_MBX_INVALID_TYPE Invalid Mailbox type id.
0xC0200005	TLR_E_ECAT_BASE_MBX_ALREADY_CONNECTED Mailbox type is already connected to listener.
0xC0200006	TLR_E_ECAT_BASE_TOO_MANY_ALCONTROL_RECEIVERS The ALcontrol notify table is full
0xC0200007	TLR_E_ECAT_BASE_QUEUE_DOES_NOT_EXIST The name does not refer to an existing queue
0xC020000A	TLR_E_ECAT_BASE_DEADSLAVE_CALLBACK_TABLE_FULL The DeadSlave callback table is full
0xC020000B	TLR_E_ECAT_BASE_NO_SUCH_EtherCAT_STACK_NAME The name does not exist in the EtherCAT stack instance list
0xC020000C	TLR_E_ECAT_BASE_DUPLICATE_EtherCAT_STACK_NAME The name exists already in the EtherCAT stack instance list
0xC020000D	TLR_E_ECAT_BASE_DYNAMICDATA_INVALID The dynamic data allocation for the EtherCAT stack handle failed
0xC020000E	TLR_E_ECAT_BASE_INVALID_TIMEOUT_PARAMS The timeouts specified to be set are not valid
0xC020000F	TLR_E_ECAT_BASE_NOT_ENOUGH_MEMORY Not enough memory to complete the operation
0xC0200010	TLR_E_ECAT_BASE_INVALID_ALSTATUS_STATE_CHANGE Not enough memory.
0xC0200011	TLR_E_ECAT_BASE_NO_DATA_AVAILABLE Not enough memory.
0xC0200012	TLR_E_ECAT_BASE_ALREADY_CONNECTED Not enough memory.
0x00230002	TLR_E_ECAT_EOE_VIRTUAL_SWITCH_NOT_PRESENT No virtual switch associated with EtherCAT stack handle
0x00230003	TLR_S_ECAT_EOE_IP_CONFIG_DATA_NOT_VALID The call completed successfully. However, the IP config data block is not valid.
0xC0230004	TLR_E_ECAT_EOE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters tried to be set
0xC0230005	TLR_E_ECAT_EOE_PARAM_UNSPECIFIED_ERROR Unspecified Error.
0xC0230006	TLR_E_ECAT_EOE_PARAM_UNSUPPORTED_FRAME_TYPE Unsupported Frame Type.
0xC0230007	TLR_E_ECAT_EOE_PARAM_NO_IP_SUPPORT No IP Support.
0xC0230008	TLR_E_ECAT_EOE_PARAM_NO_FILTER_SUPPORT No Filter Support.
0xC0240005	TLR_E_ECAT_FOE_INVALID_TIMEOUT_PARAMS

Hexadecimal Value	Definition Description
	The application tried to set invalid timeout parameters
0xC0250001	TLR_E_ECAT_AOE_COMMAND_INVALID Invalid command.
0x40250002	TLR_I_ECAT_AOE_CONFIG_INTERFACE_NOT_INITIALIZED configuration interface not initialized.
0xC0250003	TLR_E_ECAT_AOE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters.
0xC0260003	TLR_E_ECAT_VOE_VENDOR_PROFILE_ALREADY_REGISTERED The vendor profile is already registered by someone else
0xC0260005	TLR_E_ECAT_VOE_OUT_OF_MEMORY Not enough memory to complete the operation
0xC0260006	TLR_E_ECAT_VOE_COULD_NOT_SEND_MBX_MESSAGE ECAT_VOE task could not send the message
0xC0260007	TLR_E_ECAT_VOE_NOT_ENOUGH_MEMORY Not enough memory.
0xC0280001	TLR_E_OD2_OBJECT_IN_USE The object is locked. I.e. the object cannot be deleted.
0xC0280002	TLR_E_OD2_INVALID_SUBINDEX The sub-object does not exist in the object.
0xC0280003	TLR_E_OD2_INVALID_DATATYPE The data type is not valid
0xC0280004	TLR_E_OD2_INVALID_BUFFER_PTR The buffer pointer is not valid i.e. a null pointer.
0xC0280005	TLR_E_OD2_INVALID_SECTOR The sector, which holds the sector, does not exist.
0xC0280006	TLR_E_OD2_INVALID_SUBSECTOR The sub sector, which holds the object, does not exist.
0xC0280007	TLR_E_OD2_INVALID_OBJECT The object does not exist
0xC0280008	TLR_E_OD2_INVALID_INDEX The object does not exist
0xC028000F	TLR_E_OD2_NOT_ENOUGH_MEMORY There was not enough memory available to perform the function call.
0xC0280010	TLR_E_OD2_CALLBACK_IS_LOCKED The callback is locked against changing
0xC0280011	TLR_E_OD2_DATATYPE_LENGTH_TOO_LONG Data type length is too long.
0xC0280012	TLR_E_OD2_PDO_LENGTH_WOULD_EXCEED PDO length would exceed maximum transfer size.
0xC0280013	TLR_E_OD2_OBJECT_CANNOT_BE_PDO_MAPPED An object cannot be mapped in a PDO.
0xC0280014	TLR_E_OD2_BUFFER_TOO_BIG Buffer too big.
0xC0280015	TLR_E_OD2_UNSUPPORTED_ACCESS Unsupported Access.
0xC0280016	TLR_E_OD2_VALUE_WRITTEN_TOO_HIGH Value written too high.

Hexadecimal Value	Definition Description
0xC0280017L)	TLR_E_OD2_VALUE_WRITTEN_TOO_LOW Value written too low.
0xC0280018	TLR_E_OD2_OBJECT_ALREADY_EXISTS Object already exists.
0xC0280019	TLR_E_OD2_SUBOBJECT_ALREADY_EXISTS Sub-Object already exists.
0xC028001A	TLR_E_OD2_SUBOBJECT_DOES_NOT_EXIST Sub-Object does not exist.
0xC028001B	TLR_E_OD2_OBJECT_CREATION_LOCKED Object creation locked.
0xC04C0002	TLR_E_ECAT_DPM_INVALID_IO_SIZE Invalid I/O size was tried to be configured

Table 32: Status/Error Codes Summary of Base Stack – EtherCAT Slave - indistriaNETworX Image API 13

15.1.1 Diagnostic Codes of the Base Stack

Hexadecimal Value	Definition Description
0xC0200001	TLR_DIAG_E_ECAT_BASE_LOST_PCK_ALARM Mailbox Packet Lost.
0x80200002	TLR_DIAG_W_ECAT_BASE_MAILBOX_POOL_EMPTY Mailbox stopped due to empty packet pool.
0xC0200002	TLR_DIAG_E_ECAT_BASE_INVALID_STARTUP_PARAMETER Invalid Startup Parameter.
0xC0200003	TLR_DIAG_E_ECAT_BASE_COULD_NOT_CREATE_STACK_DATA Could not create stack data storage.
0xC0200004	TLR_DIAG_E_ECAT_BASE_DYNAMIC_DATA_INVALID Dynamic Data invalid.
0xC0200005	TLR_DIAG_E_ECAT_BASE_URX0_OVERFLOW Urx0 overflow.
0xC0200006	TLR_DIAG_E_ECAT_BASE_UTX0_UNDERFLOW Utx0 underflow.
0xC0200007	TLR_DIAG_E_ECAT_BASE_URX1_OVERFLOW Urx1 overflow.
0xC0200008	TLR_DIAG_E_ECAT_BASE_UTX1_UNDERFLOW Utx1 underflow.
0xC0200009	TLR_DIAG_E_ECAT_BASE_ESM_QUEUE_IDENTIFY_FAILED Queue identification of EcatEsm-task queue failed.
0xC020000A	TLR_DIAG_E_ECAT_BASE_ESM_PACKET_POOL_IDENTIFY_FAILED Packet pool identification of EcatEsm-task pool failed.
0xC020000B	TLR_DIAG_E_ECAT_BASE_LOCK_CREATION_FAILED Creation of lock failed.
0xC020000C	TLR_DIAG_E_ECAT_BASE_INVALID_ESM_DBM_DATA Invalid ESM DBM data.
0xC020000D	TLR_DIAG_E_ECAT_BASE_INVALID_MBX_DBM_DATA Invalid MBX DBM data.
0xC020000E	TLR_DIAG_E_ECAT_BASE_TIMER_CREATE_FAILED Creation of timer failed.
0xC020000F	TLR_DIAG_E_ECAT_BASE_PACKET_GET_FAILED Retrieving a packet from pool failed.
0xC0200010	TLR_DIAG_E_ECAT_BASE_MBX_QUEUE_IDENTIFY_FAILED Queue identification of EcatMbx-task queue failed.
0xC0200011	TLR_DIAG_E_ECAT_BASE_MUTEX_CREATION_FAILED Creation of mutex failed.
0x00200012	TLR_DIAG_S_ECAT_BASE_STATE_INIT Slave is currently in state INIT.
0x00200013	TLR_DIAG_S_ECAT_BASE_STATE_PREOP Slave is currently in state PREOP.
0x00200014	TLR_DIAG_S_ECAT_BASE_STATE_SAFEOP Slave is currently in state SAFEOP.
0x00200015	TLR_DIAG_S_ECAT_BASE_STATE_OP Slave is currently in state OPERATIONAL.
0x80200012	TLR_DIAG_W_ECAT_BASE_STATE_ERR_INIT

Hexadecimal Value	Definition Description
	Slave is currently in state ERR INIT.
0x80200013	TLR_DIAG_W_ECAT_BASE_STATE_ERR_PREOP Slave is currently in state ERR PREOP.
0x80200014	TLR_DIAG_W_ECAT_BASE_STATE_ERR_SAFEOP lave is currently in state ERR SAFEOP.
0x80200015	TLR_DIAG_W_ECAT_BASE_STATE_ERR_OP Slave is currently in state ERR OP.
0x00200016	TLR_DIAG_S_ECAT_BASE_STATE_BOOTING Slave is currently booting.

Table 33: Diagnostic Codes of the Base Stack – EtherCAT Slave - indistriaNETworX Image API 13

15.2 Status/Error Codes of CoE Stack

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC0210001	TLR_E_ECAT_COE_COMMAND_INVALID Invalid command received.
0x80210002	TLR_W_ECAT_COE_NO_SERVICE_RECEIVER_CONNECTED No CoE Service receiver connected.
0xC0210003	TLR_E_ECAT_COE_INVALID_SERVICE_TYPE Invalid CoE service type id.
0xC0210004	TLR_E_ECAT_COE_ALREADY_CONNECTED CoE service already connected.
0xC0210005	TLR_E_ECAT_COE_QUEUE_DOES_NOT_EXIST Queue does not exist.
0xC0210006	TLR_E_ECAT_COE_PDO_INVALID_ID Invalid PDO Id.
0xC0210007	TLR_E_ECAT_COE_PDO_UNDEFINED_ID Undefined PDO Id.
0xC0210008	TLR_E_ECAT_COE_PDO_MAPPING_FAILED_DUE_TO_MISSING_OBJECT PDO Mapping failed due to missing object.
0xC0210009	TLR_E_ECAT_COE_SDO_PROTOCOL_TIMEOUT SDO Protocol timeout
0xC021000A	TLR_E_ECAT_COE_SDO_SCS_SPECIFIER_INVALID Client/Server command specifier not valid or unknown
0xC021000B	TLR_E_ECAT_COE_SDO_OUT_OF_MEMORY Out of Memory
0xC021000C	TLR_E_ECAT_COE_SDO_UNSUPPORTED_ACCESS_TO_OBJECT Unsupported access to an object
0xC021000D	TLR_E_ECAT_COE_SDO_ATTEMPT_TO_READ_A_WRITE_ONLY_OBJECT Attempt to read a write only object
0xC021000E	TLR_E_ECAT_COE_SDO_ATTEMPT_TO_WRITE_A_READ_ONLY_OBJECT Attempt to write a read only object
0xC021000F	TLR_E_ECAT_COE_SDO_OBJECT_DOES_NOT_EXIST The object does not exist in the object dictionary
0xC0210010	TLR_E_ECAT_COE_SDO_OBJECT_CAN_NOT_BE_MAPPED_INTO_THE_PDO The object can not be mapped into the PDO
0xC0210011	TLR_E_ECAT_COE_SDO_OBJECTS_WOULD_EXCEED_PDO_LENGTH The number and length of the objects to be mapped would exceed the PDO length
0xC0210012	TLR_E_ECAT_COE_SDO_GENERAL_PARAMETER_INCOMPATIBILITY_REASON General parameter incompatibility reason
0xC0210013	TLR_E_ECAT_COE_SDO_GENERAL_INTERNAL_INCOMPATIBILITY_IN_DEVICE General internal incompatibility in the device
0xC0210014	TLR_E_ECAT_COE_SDO_ACCESS_FAILED_DUE_TO_A_HARDWARE_ERROR Access failed due to a hardware error
0xC0210015	TLR_E_ECAT_COE_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_DOES_NOT_MATCH Data type does not match, length of service parameter does not match
0xC0210016	TLR_E_ECAT_COE_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_TOO

Hexadecimal Value	Definition Description
	_HIGH Data type does not match, length of service parameter too high
0xC0210017	TLR_E_ECAT_COE_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_TOO_LOW Data type does not match, length of service parameter too low
0xC0210018	TLR_E_ECAT_COE_SDO_SUBINDEX_DOES_NOT_EXIST Sub index does not exist
0xC0210019	TLR_E_ECAT_COE_SDO_VALUE_RANGE_OF_PARAMETER_EXCEEDED Value range of parameter exceeded
0xC021001A	TLR_E_ECAT_COE_SDO_VALUE_OF_PARAMETER_WRITTEN_TOO_HIGH Value of parameter written too high
0xC021001B	TLR_E_ECAT_COE_SDO_VALUE_OF_PARAMETER_WRITTEN_TOO_LOW Value of parameter written too low
0xC021001C	TLR_E_ECAT_COE_SDO_MAXIMUM_VALUE_IS_LESS_THAN_MINIMUM_VALUE Maximum value is less than minimum value
0xC021001D	TLR_E_ECAT_COE_SDO_GENERAL_ERROR General error
0xC021001E	TLR_E_ECAT_COE_SDO_DATA_CANNOT_BE_TRANSFERRED_OR_STORED_TO_THE_APP Data cannot be transferred or stored to the application
0xC021001F	TLR_E_ECAT_COE_SDO_DATA_NO_TRANSFER_DUE_TO_LOCAL_CONTROL Data cannot be transferred or stored to the application because of local control
0xC0210020	TLR_E_ECAT_COE_SDO_DATA_NO_TRANSFER_DUE_TO_PRESENT_DEVICE_STATE Data cannot be transferred or stored to the application because of present device state
0xC0210021	TLR_E_ECAT_COE_SDO_NO_OBJECT_DICTIONARY_PRESENT Object dictionary dynamic generation fails or no object dictionary present
0xC0210022	TLR_E_ECAT_COE_SDO_UNKNOWN_ABORT_CODE Unknown SDO abort code
0xC0210023	TLR_E_ECAT_COE_SDO_TOGGLE_BIT_NOT_TOGGLED SDO toggle bit was not toggled
0xC0210024	TLR_E_ECAT_COE_SDO_CLIENT_STACK_BUSY SDO client stack busy
0xC0210025	TLR_E_ECAT_COE_SDO_CLIENT_STACK_NO_TRANSFER SDO client stack has no active transfer identified by station address
0xC0210026	TLR_E_ECAT_COE_PDO_SUBOBJECT_PTR_UNALIGNED Subobject data pointer is unaligned.
0xC0210027	TLR_E_ECAT_COE_COULD_NOT_SEND_MBX_MESSAGE The mailbox specific message could not be sent.
0xC0210028	TLR_E_ECAT_COE_INVALID_MBX_MESSAGE Invalid mailbox message
0xC0210029	TLR_E_ECAT_COE_NO_OBJECT_DICTIONARY_PRESENT No object dictionary available to access
0x8021002C	TLR_W_ECAT_COE_NO_OUTPUT_DATA No output data defined by PDO mapping and Sync Manager Assignment
0xC021002D	TLR_E_ECAT_COE_INVALID_TIMEOUT_PARAMS The application tried to set invalid timeout parameters
0xC021002E	TLR_E_ECAT_COE_SHUTDOWN_ACTIVE

Hexadecimal Value	Definition Description
	Shutdown on task is active.
0xC021002F	TLR_E_ECAT_COE_OD_NOTIFY_TABLE_FULL OD Notify Table Full.
0xC0210030	TLR_E_ECAT_COE_OD_UNDEFINED_NOTIFY_APPLICATION_ALREADY_REGISTERED An application already registered for the Undefined object notify.
0xC0210031	TLR_E_ECAT_COE_OD_SDOINFO_NOTIFY_APPLICATION_ALREADY_REGISTERED An application already registered for the SDOInfo packet hook.
0xC0210032	TLR_E_ECAT_COE_OD_DPM_MODE_OBJECTS_CAN_ONLY_BE_READONLY DPM Mode Objects can only be set readonly.
0xC0210033	TLR_E_ECAT_COE_OD_DPM_MODE_OBJECTS_DIRECTION_PARAMETER_INVALID Invalid direction parameter for DPM Mode Objects.
0xC0210034	TLR_E_ECAT_COE_OD_DPM_MODE_SUBOBJECT_OFFSET_OUT_OF_RANGE Invalid offset parameter for DPM Mode Objects.

Table 34: Status/Error Codes Summary of CoE Stack – EtherCAT Slave - industrialNETworX Image API 13

15.2.1 Diagnostic Codes of the CoE Stack

Hexadecimal Value	Definition Description
0x80210001	TLR_DIAG_W_ECAT_COE_NOT_INITIALIZED CoE stack not initialized.
0xC0210002	TLR_DIAG_E_ECAT_COE_PDO_STAGE2_FAILED PDO configuration could not be loaded.
0xC0210003	TLR_DIAG_E_ECAT_COE_INVALID_STARTUP_PARAMETER Invalid Startup Parameter.
0xC0210004	TLR_DIAG_E_ECAT_COE_COULD_NOT_CREATE_STACK_DATA Could not create stack data storage.
0xC0210005	TLR_DIAG_E_ECAT_COE_COULD_NOT_CREATE_OBJECT_DICTIONARY Could not create object dictionary.
0xC0210006	TLR_DIAG_E_ECAT_COE_MBX_QUEUE_IDENTIFY_FAILED Queue identification of EcatMbx-task queue failed.
0xC0210007	TLR_DIAG_E_ECAT_COE_COE_QUEUE_IDENTIFY_FAILED Queue identification of EcatCoE-task queue failed.
0xC0210008	TLR_DIAG_E_ECAT_COE_ESM_QUEUE_IDENTIFY_FAILED Queue identification of EcatEsm-task queue failed.
0xC021000A	TLR_DIAG_E_ECAT_COE_PACKET_GET_FAILED Retrieving a packet from pool failed.
0xC021000B	TLR_DIAG_E_ECAT_COE_TIMER_CREATE_FAILED Creation of a timer failed.
0xC021000C	TLR_DIAG_E_ECAT_COE_MUTEX_CREATION_FAILED Creation of mutex failed.
0xC021000D	TLR_DIAG_E_ECAT_COE_SDO_QUEUE_IDENTIFY_FAILED Queue identification of EcatSdo-task queue failed.
0xC021000E	TLR_DIAG_E_ECAT_COE_PDO_DBM_DATA_INVALID Invalid EcatPdo task DBM data.
0xC0210010	TLR_DIAG_E_ECAT_COE_PDO_QUEUE_IDENTIFY_FAILED Queue identification of EcatPdo-task queue failed.

Table 35: Diagnostic Codes of the CoE Stack – EtherCAT Slave - industrialNETworX Image API 13

15.3 Status/Error Codes of SoE Stack

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC0220001	TLR_E_ECAT_SOE_COMMAND_INVALID Invalid command.
0x40220002	TLR_I_ECAT_SOE_CONFIG_INTERFACE_NOT_INITIALIZED Configuration interface not initialized.
0xC0220003	TLR_E_ECAT_SOE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters.
0xC0220004	TLR_E_ECAT_SOE_IDN_ALREADY_EXISTS The IDN already exists
0xC0220005	TLR_E_ECAT_SOE_IDN_ATTRIBUTE_INVALID The attribute is invalid
0xC0220006	TLR_E_ECAT_SOE_IDN_INVALID_MAX_DATA_SIZE_SPECIFIED Invalid Max Data Size specified
0xC0220007	TLR_E_ECAT_SOE_IDN_DRIVE_NUMBER_INVALID Drive number is invalid
0xC0220008	TLR_E_ECAT_SOE_IDN_UNDEFINED_NOTIFY_ALREADY_IN_USE The undefined IDN notify mechanism is already in use
0xC0220009	TLR_E_ECAT_SOE_IDN_INVALID_ELEMENT_ID Invalid element id
0xC022000A	TLR_E_ECAT_SOE_IDN_APP_PACKET_RESPONSE_INVALID App Packet Response is invalid
0xC022000B	TLR_E_ECAT_SOE_IDN_APP_SSC_TRANSFER_TOO_LONG Transfer of data is longer than expected
0xC022000C	TLR_E_ECAT_SOE_IDN_APP_SSC_TRANSFER_LENGTH_WRONG The length of the transfer is wrong
0xC022000D	TLR_E_ECAT_SOE_IDN_APP_MTU_TOO_LOW Applications packet MTU is lower than the minimum required for IDN read/write functions
0xC022000E	TLR_E_ECAT_SOE_IDN_INVALID_DEST_ID Invalid Dest Id
0xC022000F	TLR_E_ECAT_SOE_IDN_LISTS_CANNOT_HAVE_A_MINIMUM_VALUE IDN lists cannot have a minimum value
0xC0220010	TLR_E_ECAT_SOE_IDN_LISTS_CANNOT_HAVE_A_MAXIMUM_VALUE IDN lists cannot have a maximum value
0xC0220011	TLR_E_ECAT_SOE_IDN_NAME_EXCEEDS_ALLOCATED_LENGTH IDN name exceeds allocated maximum length
0xC0220012	TLR_E_ECAT_SOE_IDN_UNIT_EXCEEDS_ALLOCATED_LENGTH IDN unit exceeds allocated maximum length
0xC0220013	TLR_E_ECAT_SOE_IDN_OPDATA_EXCEEDS_ALLOCATED_LENGTH OpData exceeds allocated maximum length
0xC0220014	TLR_E_ECAT_SOE_IDN_INVALID_MAX_LIST_LENGTH Invalid Max List Length
0xC0220015	TLR_E_ECAT_SOE_IDN_DEFAULT_VALUE_EXCEEDS_ALLOCATED_LENGTH Default Value exceeds allocated maximum length
0xC0220016	TLR_E_ECAT_SOE_IDN_MINIMUM_AND_MAXIMUM_VALUE_MUST_BE_USED_

Hexadecimal Value	Definition Description
	TOGETHER Minimum and Maximum value must be used together
0xC0220017	TLR_E_ECAT_SOE_IDN_USER_APPLICATION_TRANSFER_ERROR IDN user application transfer error
0xC0221001	TLR_E_ECAT_SOE_SSC_NO_IDN No IDN
0xC0221009	TLR_E_ECAT_SOE_SSC_INVALID_ACCESS_TO_ELEMENT_1 Invalid Access to Element 1 (returned at write address)
0xC0222001	TLR_E_ECAT_SOE_SSC_NO_NAME IDN has no name
0xC0222002	TLR_E_ECAT_SOE_SSC_NAME_TRANSMISSION_IS_TOO_SHORT Name transmission is too short
0xC0222003	TLR_E_ECAT_SOE_SSC_NAME_TRANSMISSION_IS_TOO_LONG Name transmission is too long
0xC0222004	TLR_E_ECAT_SOE_SSC_NAME_CANNOT_BE_CHANGED Name cannot be changed (read only)
0xC0222005	TLR_E_ECAT_SOE_SSC_NAME_IS_WRITE_PROTECTED_AT_THIS_TIME Name is currently write protected
0xC0223002	TLR_E_ECAT_SOE_SSC_ATTRIBUTE_TRANSMISSION_IS_TOO_SHORT Attribute transmission is too short
0xC0223003	TLR_E_ECAT_SOE_SSC_ATTRIBUTE_TRANSMISSION_IS_TOO_LONG Attribute transmission is too long
0xC0223004	TLR_E_ECAT_SOE_SSC_ATTRIBUTE_CANNOT_BE_CHANGED Attribute cannot be changed (read only)
0xC0223005	TLR_E_ECAT_SOE_SSC_ATTRIBUTE_IS_WRITE_PROTECTED_AT_THIS_TIME Attribute is currently write protected
0xC0224001	TLR_E_ECAT_SOE_SSC_NO_UNIT IDN has no unit
0xC0224002	TLR_E_ECAT_SOE_SSC_UNIT_TRANSMISSION_IS_TOO_SHORT Unit transmission is too short
0xC0224003	TLR_E_ECAT_SOE_SSC_UNIT_TRANSMISSION_IS_TOO_LONG Unit transmission is too long
0xC0224004	TLR_E_ECAT_SOE_SSC_UNIT_CANNOT_BE_CHANGED Unit cannot be changed (read only)
0xC0224005	TLR_E_ECAT_SOE_SSC_UNIT_IS_WRITE_PROTECTED_AT_THIS_TIME Unit is currently write protected
0xC0225001	TLR_E_ECAT_SOE_SSC_NO_MINIMUM_VALUE IDN has no minimum value
0xC0225002	TLR_E_ECAT_SOE_SSC_MINIMUM_VALUE_TRANSMISSION_IS_TOO_SHORT Minimum value transmission is too short
0xC0225003	TLR_E_ECAT_SOE_SSC_MINIMUM_VALUE_TRANSMISSION_IS_TOO_LONG Minimum value transmission is too long
0xC0225004	TLR_E_ECAT_SOE_SSC_MINIMUM_VALUE_CANNOT_BE_CHANGED Minimum value cannot be changed (read only)
0xC0225005	TLR_E_ECAT_SOE_SSC_MINIMUM_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME Minimum value is currently write protected
0xC0226001	TLR_E_ECAT_SOE_SSC_NO_MAXIMUM_VALUE

Hexadecimal Value	Definition Description
	IDN has no maximum value
0xC0226002	TLR_E_ECAT_SOE_SSC_MAXIMUM_VALUE_TRANSMISSION_IS_TOO_SHORT Maximum value transmission is too short
0xC0226003	TLR_E_ECAT_SOE_SSC_MAXIMUM_VALUE_TRANSMISSION_IS_TOO_LONG Maximum value transmission is too long
0xC0226004	TLR_E_ECAT_SOE_SSC_MAXIMUM_VALUE_CANNOT_BE_CHANGED Maximum value cannot be changed (read only)
0xC0226005	TLR_E_ECAT_SOE_SSC_MAXIMUM_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME Maximum value is currently write protected
0xC0227002	TLR_E_ECAT_SOE_SSC_OPDATA_TRANSMISSION_IS_TOO_SHORT Operation data transmission is too short
0xC0227003	TLR_E_ECAT_SOE_SSC_OPDATA_TRANSMISSION_IS_TOO_LONG Operation data transmission is too long
0xC0227004	TLR_E_ECAT_SOE_SSC_OPDATA_CANNOT_BE_CHANGED Operation data cannot be changed (read only)
0xC0227005	TLR_E_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_THIS_TIME Operation data is currently write protected
0xC0227006	TLR_E_ECAT_SOE_SSC_OPDATA_IS_LOWER_THAN_MINIMUM_VALUE Operation data is lower than minimum value
0xC0227007	TLR_E_ECAT_SOE_SSC_OPDATA_IS_HIGHER_THAN_MAXIMUM_VALUE Operation data is higher than maximum value
0xC0227008	TLR_E_ECAT_SOE_SSC_OPDATA_IS_INVALID Operation data is invalid
0xC0227009	TLR_E_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_BY_PASSWORD Operation data is write protected by password
0xC022700A	TLR_E_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_DUE_CYCLICALLY_CONFIGURED Operation data is write protected due to being cyclically configured
0xC022700B	TLR_E_ECAT_SOE_SSC_OPDATA_INVALID_INDIRECT_ADDRESSING Invalid indirect addressing
0xC022700C	TLR_E_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_DUE_OTHER_SETTINGS Operation data is write protected due to other settings
0xC022700D	TLR_E_ECAT_SOE_SSC_OPDATA_INVALID_FLOATING_POINT_NUMBER Invalid floating point number in operation data
0xC022700E	TLR_E_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_PARAMETERIZATION_LEVEL Operation data is write protected at parameterization level
0xC022700F	TLR_E_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_OPERATION_LEVEL Operation data is write protected at operation level
0xC0227010	TLR_E_ECAT_SOE_SSC_OPDATA_PROCEDURE_COMMAND_ALREADY_ACTIVE Procedure command already active
0xC0227011	TLR_E_ECAT_SOE_SSC_OPDATA_PROCEDURE_COMMAND_NOT_INTERRUPT

Hexadecimal Value	Definition Description
	TIBLE Procedure command not interruptible
0xC0227012	TLR_E_ECAT_SOE_SSC_OPDATA_PROCEDURE_COMMAND_NOT_EXECUTABLE_AT_THIS_TIME Procedure command not executable at this time
0xC0227013	TLR_E_ECAT_SOE_SSC_OPDATA_PROCEDURE_COMMAND_NOT_EXECUTABLE_INVALID_PARAM Procedure command not executable invalid parameter
0xC0228001	TLR_E_ECAT_SOE_SSC_NO_DEFAULT_VALUE IDN has no default value
0xC0228002	TLR_E_ECAT_SOE_SSC_DEFAULT_VALUE_TRANSMISSION_IS_TOO_SHORT Default value transmission is too short
0xC0228003	TLR_E_ECAT_SOE_SSC_DEFAULT_VALUE_TRANSMISSION_IS_TOO_LONG Default value transmission is too long
0xC0228004	TLR_E_ECAT_SOE_SSC_DEFAULT_VALUE_CANNOT_BE_CHANGED Default Value cannot be changed (read only)

Table 36: Status/Error Codes Summary of SoE Stack – EtherCAT Slave - industrialNETworX Image API 13

15.3.1 Diagnostic Codes of the SoE Stack

Hexadecimal Value	Definition Description
0x80220001	TLR_DIAG_W_ECAT_SOE_NOT_INITIALIZED SoE stack not initialized.
0xC0220002	TLR_DIAG_E_ECAT_SOE_INVALID_STARTUP_PARAMETER Invalid Startup Parameter.
0xC0220003	TLR_DIAG_E_ECAT_SOE_COULD_NOT_CREATE_STACK_DATA Could not create stack data storage.
0xC0220004	TLR_DIAG_E_ECAT_SOE_MBX_QUEUE_IDENTIFY_FAILED Queue identification of EcatMbx task queue failed.
0xC0220005	TLR_DIAG_E_ECAT_SOE_ESM_QUEUE_IDENTIFY_FAILED Queue identification of EcatEsm task queue failed.
0x80230001	TLR_DIAG_W_ECAT_EOE_NOT_INITIALIZED EoE stack not initialized.
0xC0230001	TLR_DIAG_E_ECAT_EOE_INVALID_STARTUP_PARAMETER Invalid Startup Parameter.
0xC0230002	TLR_DIAG_E_ECAT_EOE_COULD_NOT_CREATE_STACK_DATA Could not create stack data storage.
0xC0230003	TLR_DIAG_E_ECAT_EOE_MUTEX_CREATE_FAILED Creation of mutex failed.
0xC0230004	TLR_DIAG_E_ECAT_EOE_VSWITCH_CREATE_FAILED Creation of virtual switch failed.
0xC0230005	TLR_DIAG_E_ECAT_EOE_ESM_QUEUE_IDENTIFY_FAILED Queue identification of EcatEsm task queue failed.
0xC0230006	TLR_DIAG_E_ECAT_EOE_MBX_QUEUE_IDENTIFY_FAILED Queue identification of EcatMbx task queue failed.
0xC0230007	TLR_DIAG_E_ECAT_EOE_INVALID_DBM_DATA Invalid EcatEoE task DBM data.
0xC0230008	TLR_DIAG_E_ECAT_EOE_CONFIG_SETUP_FAILED Setup of configuration access failed.
0xC0230009	TLR_DIAG_E_ECAT_EOE_VSWITCH_PORT_CREATE_FAILED Creation of Virtual Switch port failed.
0xC023000A	TLR_DIAG_E_ECAT_EOE_PACKET_GET_FAILED Retrieving a packet from pool failed.
0xC023000B	TLR_DIAG_E_ECAT_EOE_TIMER_CREATE_FAILED Creation of a timer failed.
0xC023000C	TLR_DIAG_E_ECAT_EOE_TCPTASK_QUEUE_IDENTIFY_FAILED Queue identification of TCP-task failed.
0x80240001	TLR_DIAG_W_ECAT_FOE_NOT_INITIALIZED FoE stack not initialized.
0xC0240001	TLR_DIAG_E_ECAT_FOE_INVALID_STARTUP_PARAMETER Invalid Startup Parameter.
0xC0240002	TLR_DIAG_E_ECAT_FOE_COULD_NOT_CREATE_STACK_DATA Could not create stack data storage.
0xC0240003	TLR_DIAG_E_ECAT_FOE_MBX_QUEUE_IDENTIFY_FAILED Queue identification of EcatMbx task queue failed.
0xC0240004	TLR_DIAG_E_ECAT_FOE_ESM_QUEUE_IDENTIFY_FAILED

	Queue identification of EcatEsm task queue failed.
0xC0240005	TLR_DIAG_E_ECAT_FOE_DBM_DATA_INVALID Invalid EcatFoE task DBM data.
0xC0240006	TLR_DIAG_E_ECAT_FOE_DEF_HANDLER_INIT_FAILED Initialization of default FoE handler failed.
0xC0240007	TLR_DIAG_E_ECAT_FOE_TIMER_CREATE_FAILED Creation of timer failed.
0x80250001	TLR_DIAG_W_ECAT_AOE_NOT_INITIALIZED AoE stack not initialized.
0xC0250001	TLR_DIAG_E_ECAT_AOE_INVALID_STARTUP_PARAMETER Invalid Startup Parameter.
0xC0250002	TLR_DIAG_E_ECAT_AOE_COULD_NOT_CREATE_STACK_DATA Could not create stack data storage.
0x80260001	TLR_DIAG_W_ECAT_VOE_NOT_INITIALIZED VoE stack not initialized.
0xC0260001	TLR_DIAG_E_ECAT_VOE_INVALID_STARTUP_PARAMETER Invalid Startup Parameter.
0xC0260002	TLR_DIAG_E_ECAT_VOE_COULD_NOT_CREATE_STACK_DATA Could not create stack data storage.
0xC0260003	TLR_DIAG_E_ECAT_VOE_MBX_QUEUE_IDENTIFY_FAILED Queue identification of EcatMbx-task queue failed.
0xC0260004	TLR_DIAG_E_ECAT_VOE_ESM_QUEUE_IDENTIFY_FAILED Queue identification of EcatEsm-task queue failed.
0xC0260005	TLR_DIAG_E_ECAT_VOE_ESM_PACKET_SEND_FAILED Sending a packet to the EcatEsm-task failed.
0xC0260006	TLR_DIAG_E_ECAT_VOE_MBX_PACKET_SEND_FAILED Sending a packet to the EcatMbx-task failed.

Table 37: Diagnostic Codes of the SoE Stack – EtherCAT Slave - industrialNETworX Image API 13

16 Ethernet Protocol API

16.1 Packet Status/Error

The following status and error codes are sent to the application in the `ulSta` element of confirmation packets by the ETH_INTF task.

Definition / (Value)	Description
TLR_S_OK (0x00000000)	Status ok.
TLR_E_ETH_INTF_COMMAND_INVALID (0xC05D0001)	Invalid command received.
TLR_E_ETH_INTF_CONFIG_LOCK (0xC05D0002)	Configuration is locked.
TLR_E_ETH_INTF_INVALID_PACKET_LENGTH (0xC05D0003)	Invalid packet length.
TLR_E_ETH_INTF_INVALID_MODE (0xC05D0004)	Invalid mode in request.
TLR_E_ETH_INTF_PARAM_AUTO_NEGOTIATION_PORT_0 (0xC05D0005)	Invalid parameter for auto-negotiation port 0.
TLR_E_ETH_INTF_PARAM_AUTO_NEGOTIATION_PORT_1 (0xC05D0006)	Invalid parameter for auto-negotiation port 1.
TLR_E_ETH_INTF_PARAM_DUPLEX_MODE_PORT_0 (0xC05D0007)	Invalid parameter for duplex mode port 0.
TLR_E_ETH_INTF_PARAM_DUPLEX_MODE_PORT_1 (0xC05D0008)	Invalid parameter for duplex mode port 1.
TLR_E_ETH_INTF_PARAM_TRANSMISSION_RATE_PORT_0 (0xC05D0009)	Invalid parameter for transmission rate port 0.
TLR_E_ETH_INTF_PARAM_TRANSMISSION_RATE_PORT_1 (0xC05D000A)	Invalid parameter for transmission rate port 1.
TLR_E_ETH_INTF_PARAM_AUTO_CROSSOVER_PORT_0 (0xC05D000B)	Invalid parameter for auto cross-over port 0.
TLR_E_ETH_INTF_PARAM_AUTO_CROSSOVER_PORT_1 (0xC05D000C)	Invalid parameter for auto cross-over port 1.
TLR_E_ETH_INTF_NO_CONFIGURATION (0xC05D000D)	Task is not configured.
TLR_E_ETH_INTF_APP_NOT_REGISTERED (0xC05D000E)	No application registered.
TLR_E_ETH_INTF_APP_SET_NOT_READY (0xC05D000F)	Application set not ready.
TLR_E_ETH_INTF_LINK_DOWN (0xC05D0010)	No Ethernet link.
TLR_E_ETH_INTF_GET_SEND_BUFFER (0xC05D0011)	Failed to get send buffer.
TLR_E_ETH_INTF_SEND_FRAME (0xC05D0012)	Failed to send Ethernet frame.
TLR_E_ETH_INTF_SET_DRV_EDD_CFG (0xC05D0013)	Failed to set driver EDD configuration.

Definition / (Value)	Description
TLR_E_ETH_INTF_INVALID_ETH_PORT (0xC05D0014)	Invalid parameter for Ethernet port.
TLR_E_ETH_INTF_UNKNOWN_ERROR (0xC05DFFFF)	Unknown error detected.

Table 38: Packet Status/Error Codes Overview - Ethernet Protocol API 05

16.1.1 Diagnostic Status/Error

The following status and error codes can be read by the application from the extended diagnostic block in the dual-port memory.

Definition / (Value)	Description
TLR_S_OK (0x00000000)	Status ok.
TLR_DIAG_E_ETH_INTF_INVALID_STARTUP_PARAMETER (0xC05D0001)	Invalid start-up parameter.
TLR_DIAG_I_ETH_INTF_UNKNOWN_COMMAND_RECEIVED (0x405D0002)	Unknown command received.
TLR_DIAG_E_ETH_INTF_SEND_PACKET_FAILED (0xC05D0003)	Failed to send packet.
TLR_DIAG_E_ETH_INTF_GET_PACKET_FAILED (0xC05D0004)	Failed to get packet.
TLR_DIAG_E_ETH_INTF_PACKET_DONE_FAILED (0xC05D0005)	Failed to return or release packet.
TLR_DIAG_E_ETH_INTF_SET_DRV_EDD_CFG (0xC05D0006)	Failed to set driver EDD configuration.
TLR_DIAG_E_ETH_INTF_GET_BUFFER (0xC05D0007)	Failed to get Ethernet buffer.
TLR_DIAG_E_ETH_INTF_FREE_BUFFER (0xC05D0008)	Failed to free Ethernet buffer.
TLR_DIAG_E_ETH_INTF_SEND_BUFFER (0xC05D0009)	Failed to send Ethernet buffer.
TLR_DIAG_E_ETH_INTF_GET_DRV_EDD_DIAG (0xC05D000A)	Failed to get diagnostic information from driver EDD.
TLR_DIAG_E_ETH_INTF_INVALID_ETH_PORT (0xC05D000B)	Invalid parameter for Ethernet port.

Table 39: Diagnostic Status/Error Codes Overview - Ethernet Protocol API 05

17 EtherNet/IP Adapter Protocol API

17.1 Status/Error Codes EipObject-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC01F0002	TLR_E_EIP_OBJECT_OUT_OF_MEMORY System is out of memory
0xC01F0003	TLR_E_EIP_OBJECT_OUT_OF_PACKETS Task runs out of empty packets at the local packet pool
0xC01F0004	TLR_E_EIP_OBJECT_SEND_PACKET Sending a packet failed
0xC01F0010	TLR_E_EIP_OBJECT_AS_ALLREADY_EXIST Assembly instance already exists
0xC01F0011	TLR_E_EIP_OBJECT_AS_INVALID_INST Invalid Assembly Instance
0xC01F0012	TLR_E_EIP_OBJECT_AS_INVALID_LEN Invalid Assembly length
0xC01F0020	TLR_E_EIP_OBJECT_CONN_OVERRUN No free connection buffer available
0xC01F0021	TLR_E_EIP_OBJECT_INVALID_CLASS Object class is invalid
0xC01F0022	TLR_E_EIP_OBJECT_SEGMENT_FAULT Segment of the path is invalid
0xC01F0023	TLR_E_EIP_OBJECT_CLASS_ALLREADY_EXIST Object Class is already used
0xC01F0024	TLR_E_EIP_OBJECT_CONNECTION_FAIL Connection failed.
0xC01F0025	TLR_E_EIP_OBJECT_CONNECTION_PARAM Unknown format of connection parameter
0xC01F0026	TLR_E_EIP_OBJECT_UNKNOWN_CONNECTION Invalid connection ID
0xC01F0027	TLR_E_EIP_OBJECT_NO_OBJ_RESSOURCE No resource for creating a new class object available
0xC01F0028	TLR_E_EIP_OBJECT_ID_INVALID_PARAMETER Invalid request parameter
0xC01F0029	TLR_E_EIP_OBJECT_CONNECTION_FAILED General connection failure. See also General Error Code and Extended Error Code for more details.
0xC01F0031	TLR_E_EIP_OBJECT_READONLY_INST Access denied. Instance is read only
0xC01F0032	TLR_E_EIP_OBJECT_DPM_USED DPM address is already used by an other instance.
0xC01F0033	TLR_E_EIP_OBJECT_SET_OUTPUT_RUNNING Set Output command is already running

Hexadecimal Value	Definition Description
0xC01F0034	TLR_E_EIP_OBJECT_TASK_RESETING EtherNet/IP Object Task is running a reset.
0xC01F0035	TLR_E_EIP_OBJECT_SERVICE_ALREADY_EXIST Object Service already exists

Table 40: Status/Error Codes EipObject-Task - EtherNet/IP Adapter Protocol API 08

17.1.1 Diagnostic Codes

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC01F0001	TLR_DIAG_E_EIP_OBJECT_NO_SERVICE_RES_PACKET No free packet available to create a response of the request.
0xC01F0002	TLR_DIAG_E_EIP_OBJECT_NO_GET_INP_PACKET No free packet available to send the input data.
0xC01F0003	TLR_DIAG_E_EIP_OBJECT_ROUTING_SEND_PACKET_FAIL Routing a request to an object failed. A error occurred at the destination packet queue.
0xC01F0004	TLR_DIAG_E_EIP_OBJECT_ROUTING_SEND_PACKET_CNF_FAIL Sending the confirmation of a request failed. A error occurred at the packet queue.
0xC01F0005	TLR_DIAG_E_EIP_OBJECT_GETTING_UNKNOWN_CLASS_ID Getting a confirmation of a request from a unknown object.
0xC01F0006	TLR_DIAG_E_EIP_OBJECT_NO_CC_INSTANCE_MEMORY Instance of the CC object could not created. No free memory available.
0xC01F0007	TLR_DIAG_E_EIP_OBJECT_CLOSE_SEND_PACKET_FAIL Completing a connection close command failed. Sending the command to the packet queue failed.
0xC01F0008	TLR_DIAG_E_EIP_OBJECT_OPEN_SEND_PACKET_FAIL Completing a connection open command failed. Sending the command to the packet queue failed.
0xC01F0009	TLR_DIAG_E_EIP_OBJECT_DEL_TRANSP_SEND_PACKET_FAIL Sending the delete transport command failed. Encap Queue signal an error.
0xC01F000A	TLR_DIAG_E_EIP_OBJECT_FW_OPEN_SEND_PACKET_FAIL Sending the forward open command failed. Encap Queue signal an error.
0xC01F000B	TLR_DIAG_E_EIP_OBJECT_START_TRANSP_SEND_PACKET_FAIL Sending the start transport command failed. Encap Queue signal an error.
0xC01F000C	TLR_DIAG_E_EIP_OBJECT_CM_UNKNOWN_CNF Connection manager received a confirmation of unknown service.
0xC01F000D	TLR_DIAG_E_EIP_OBJECT_FW_CLOSE_SEND_PACKET_FAIL Sending the forward close command failed. Encap Queue signal an error.
0xC01F000E	TLR_DIAG_E_EIP_OBJECT_NO_RESET_PACKET Fail to complete reset command. We did not get a empty packet.

Table 41: Diagnostic Codes EipObject-Task - EtherNet/IP Adapter Protocol API 08

17.2 Status/Error Codes EipEncap-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC01E0002	TLR_E_EIP_ENCAP_NOT_INITIALIZED Encapsulation layer is not initialized
0xC01E0003	TLR_E_EIP_ENCAP_OUT_OF_MEMORY System is out of memory
0xC01E0010	TLR_E_EIP_ENCAP_OUT_OF_PACKETS Task runs out of empty packets at the local packet pool
0xC01E0011	TLR_E_EIP_ENCAP_SEND_PACKET Sending a packet failed
0xC01E0012	TLR_E_EIP_ENCAP_SOCKET_OVERRUN No free socket is available
0xC01E0013	TLR_E_EIP_ENCAP_INVALID_SOCKET Socket ID is invalid
0xC01E0014	TLR_E_EIP_ENCAP_CEP_OVERRUN Connection could not be opened. No resource for a new Connection Endpoint available
0xC01E0015	TLR_E_EIP_ENCAP_UCMM_OVERRUN Message could not send. All Unconnected Message Buffers are in use
0xC01E0016	TLR_E_EIP_ENCAP_TRANSP_OVERRUN Connection could not be opened. All transports are in use
0xC01E0017	TLR_E_EIP_ENCAP_UNKNOWN_CONN_TYP Received message includes an unknown connection type
0xC01E0018	TLR_E_EIP_ENCAP_CONN_CLOSED Connection was closed
0xC01E0019	TLR_E_EIP_ENCAP_CONN_RESETE Connection is reseted from remote device
0x001E001A	TLR_S_EIP_ENCAP_CONN_UNREGISTER We closed the connection successful. With an unregister command
0xC01E001B	TLR_E_EIP_ENCAP_CONN_STATE Wrong connection state for this service
0xC01E001C	TLR_E_EIP_ENCAP_CONN_INACTIV Encapsulation session was deactivated
0xC01E001D	TLR_E_EIP_ENCAP_INVALID_IPADDR received an invalid IP address
0xC01E001E	TLR_E_EIP_ENCAP_INVALID_TRANSP Invalid transport type
0xC01E001F	TLR_E_EIP_ENCAP_TRANSP_INUSE Transport is in use
0xC01E0020	TLR_E_EIP_ENCAP_TRANSP_CLOSED Transport is closed
0xC01E0021	TLR_E_EIP_ENCAP_INVALID_MSGID The received message has an invalid message ID
0xC01E0022	TLR_E_EIP_ENCAP_INVALID_MSG invalid encapsulation message received

Hexadecimal Value	Definition Description
0xC01E0023	TLR_E_EIP_ENCAP_INVALID_MSGLEN Received message with invalid length
0xC01E0030	TLR_E_EIP_ENCAP_CL3_TIMEOUT Class 3 connection runs into timeout
0xC01E0031	TLR_E_EIP_ENCAP_UCMM_TIMEOUT Unconnected message gets a timeout
0xC01E0032	TLR_E_EIP_ENCAP_CL1_TIMEOUT Timeout of a class 3 connection
0xC01E0033	TLR_W_EIP_ENCAP_TIMEOUT Encapsulation service is finished by timeout
0xC01E0034	TLR_E_EIP_ENCAP_CMDRUNNING Encapsulation service is still running
0xC01E0035	TLR_E_EIP_ENCAP_NO_TIMER No empty timer available
0xC01E0036	TLR_E_EIP_ENCAP_INVALID_DATA_IDX The data index is unknown by the task. Please ensure that it is the same as at the indication.
0xC01E0037	TLR_E_EIP_ENCAP_INVALID_DATA_AREA The parameter of the data area are invalid. Please check length and offset.
0xC01E0039	TLR_E_EIP_ENCAP_TASK_RESETING Ethernet/IP Encapsulation Layer runs a reset.

Table 42: Status/Error Codes EipEncap-Task - EtherNet/IP Adapter Protocol API 08

17.2.1 Diagnostic Codes

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC01E0001	TLR_DIAG_E_EIP_ENCAP_NO_LIDENTITY_PACKET No free packet available to indicate the received List Identity information.
0xC01E0002	TLR_DIAG_E_EIP_ENCAP_NO_ENCAP_CMD_PACKET No free packet available to send a request to the ethernet interface.
0xC01E0003	TLR_DIAG_E_EIP_ENCAP_NO_REGISTER_PACKET No free packet available to send a register session request to the Ethernet interface.
0xC01E0004	TLR_DIAG_E_EIP_ENCAP_CMD_TCP_SEND_PACKET_FAIL Send packet to the Ethernet interface failed.
0xC01E0005	TLR_DIAG_E_EIP_ENCAP_NO_LSERVICE_PACKET No free packet available to indicate the received List Service information.
0xC01E0006	TLR_DIAG_E_EIP_ENCAP_NO_LINTERFACE_PACKET No free packet available to indicate the received List Interface information.
0xC01E0007	TLR_DIAG_E_EIP_ENCAP_NO_MULTICAST_JOIN_PACKET No free packet available to join the multicast group.
0xC01E0008	TLR_DIAG_E_EIP_ENCAP_NO_MULTICAST_DROP_PACKET No free packet available to drop the multicast group.
0xC01E0009	TLR_DIAG_E_EIP_ENCAP_CONNECTING_INVALID_PACKET_ID By establishing a new connection an invalid packet ID was received.
0xC01E000A	TLR_DIAG_E_EIP_ENCAP_WAIT_CONN_INVALID_PACKET_ID By waiting for a connection an invalid packet ID was received.
0xC01E000B	TLR_DIAG_E_EIP_ENCAP_CEP_OVERRUN No free connection endpoints are available.
0xC01E000C	TLR_DIAG_E_EIP_ENCAP_CONNECTION_INACTIVE Receive data from a inactive or unknown connection.
0xC01E000D	TLR_DIAG_W_EIP_ENCAP_CONNECTION_CLOSED Connection is closed.
0xC01E000E	TLR_DIAG_W_EIP_ENCAP_CONNECTION_RESET Connection is reset
0xC01E000F	TLR_DIAG_E_EIP_ENCAP_RECEIVED_INVALID_DATA Receive invalid data, Connection is closed.
0xC01E0010	TLR_DIAG_E_EIP_ENCAP_UNKNOWN_CONNECTION_TYP Receive data from an unknown connection type
0xC01E0011	TLR_DIAG_E_EIP_ENCAP_CEP_STATE_ERROR Command is not allowed at the actual connection endpoint state.
0xC01E0012	TLR_DIAG_E_EIP_ENCAP_NO_INDICATION_PACKET No free packet available to send a indication of the received data.
0xC01E0013	TLR_DIAG_E_EIP_ENCAP_RECEIVER_OUT_OF_MEMORY No memory for a receive buffer is available, data could not received.
0xC01E0014	TLR_DIAG_E_EIP_ENCAP_NO_ABORT_IND_PACKET No free packet available to send a abort transport indication.
0xC01E0015	TLR_DIAG_E_EIP_ENCAP_START_CONNECTION_FAIL Starting the connection failed. Connection endpoint is invalid.

Hexadecimal Value	Definition Description
0xC01E0016	TLR_DIAG_E_EIP_ENCAP_NO_GET_TCP_CONFIG_PACKET No free packet for requesting the actual configuration from the TCP task

Table 43: Diagnostic Codes EipEncap-Task - EtherNet/IP Adapter Protocol API 08

18 EtherNet/IP Scanner Protocol API

18.1 Status/Error Codes EipObject-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC01F0002	TLR_E_EIP_OBJECT_OUT_OF_MEMORY System is out of memory
0xC01F0003	TLR_E_EIP_OBJECT_OUT_OF_PACKETS Task runs out of empty packets at the local packet pool
0xC01F0004	TLR_E_EIP_OBJECT_SEND_PACKET Sending a packet failed
0xC01F0010	TLR_E_EIP_OBJECT_AS_ALREADY_EXIST Assembly instance already exists
0xC01F0011	TLR_E_EIP_OBJECT_AS_INVALID_INST Invalid Assembly Instance
0xC01F0012	TLR_E_EIP_OBJECT_AS_INVALID_LEN Invalid Assembly length
0xC01F0020	TLR_E_EIP_OBJECT_CONN_OVERRUN No free connection buffer available
0xC01F0021	TLR_E_EIP_OBJECT_INVALID_CLASS Object class is invalid
0xC01F0022	TLR_E_EIP_OBJECT_SEGMENT_FAULT Segment of the path is invalid
0xC01F0023	TLR_E_EIP_OBJECT_CLASS_ALLREADY_EXIST Object Class is already used
0xC01F0024	TLR_E_EIP_OBJECT_CONNECTION_FAIL Connection failed.
0xC01F0025	TLR_E_EIP_OBJECT_CONNECTION_PARAM Unknown format of connection parameter
0xC01F0026	TLR_E_EIP_OBJECT_UNKNOWN_CONNECTION Invalid connection ID
0xC01F0027	TLR_E_EIP_OBJECT_NO_OBJ_RESSOURCE No resource for creating a new class object available
0xC01F0028	TLR_E_EIP_OBJECT_ID_INVALID_PARAMETER Invalid request parameter
0xC01F0029	TLR_E_EIP_OBJECT_CONNECTION_FAILED General connection failure. See also General Error Code and Extended Error Code for more details.
0xC01F0031	TLR_E_EIP_OBJECT_READONLY_INST Access denied. Instance is read only
0xC01F0032	TLR_E_EIP_OBJECT_DPM_USED DPM address is already used by an other instance.
0xC01F0033	TLR_E_EIP_OBJECT_SET_OUTPUT_RUNNING Set Output command is already running
0xC01F0034	TLR_E_EIP_OBJECT_TASK_RESETING EtherNet/IP Object Task is running a reset.

Hexadecimal Value	Definition Description
0xC01F0035	TLR_E_EIP_OBJECT_SERVICE_ALREADY_EXIST Object Service already exists

*Table 44: Status/Error Codes Codes *EipObject-Task* - EtherNet/IP Scanner Protocol API 09*

18.1.1 Diagnostic Codes EipObject-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC01F0001	TLR_DIAG_E_EIP_OBJECT_NO_SERVICE_RES_PACKET No free packet available to create a response of the request.
0xC01F0002	TLR_DIAG_E_EIP_OBJECT_NO_GET_INP_PACKET No free packet available to send the input data.
0xC01F0003	TLR_DIAG_E_EIP_OBJECT_ROUTING_SEND_PACKET_FAIL Routing a request to an object failed. A error occurred at the destination packet queue.
0xC01F0004	TLR_DIAG_E_EIP_OBJECT_ROUTING_SEND_PACKET_CNF_FAIL Sending the confirmation of a request failed. A error occurred at the packet queue.
0xC01F0005	TLR_DIAG_E_EIP_OBJECT_GETTING_UNKNOWN_CLASS_ID Getting a confirmation of a request from a unknown object.
0xC01F0006	TLR_DIAG_E_EIP_OBJECT_NO_CC_INSTANCE_MEMORY Instance of the CC object could not created. No free memory available.
0xC01F0007	TLR_DIAG_E_EIP_OBJECT_CLOSE_SEND_PACKET_FAIL Completing a connection close command failed. Sending the command to the packet queue failed.
0xC01F0008	TLR_DIAG_E_EIP_OBJECT_OPEN_SEND_PACKET_FAIL Completing a connection open command failed. Sending the command to the packet queue failed.
0xC01F0009	TLR_DIAG_E_EIP_OBJECT_DEL_TRANSP_SEND_PACKET_FAIL Sending the delete transport command failed. Encap Queue signals an error.
0xC01F000A	TLR_DIAG_E_EIP_OBJECT_FW_OPEN_SEND_PACKET_FAIL Sending the forward open command failed. Encap Queue signals an error.
0xC01F000B	TLR_DIAG_E_EIP_OBJECT_START_TRANSP_SEND_PACKET_FAIL Sending the start transport command failed. Encap Queue signals an error.
0xC01F000C	TLR_DIAG_E_EIP_OBJECT_CM_UNKNOWN_CNF Connection manager received a confirmation of unknown service.
0xC01F000D	TLR_DIAG_E_EIP_OBJECT_FW_CLOSE_SEND_PACKET_FAIL Sending the forward close command failed. Encap Queue signals an error.
0xC01F000E	TLR_DIAG_E_EIP_OBJECT_NO_RESET_PACKET Fail to complete reset command. We did not get an empty packet.

Table 45: Diagnostic Codes EipObject-Task - EtherNet/IP Scanner Protocol API 09

18.2 Status/Error Codes EipEncap-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC01E0002	TLR_E_EIP_ENCAP_NOT_INITIALIZED Encapsulation layer is not initialized
0xC01E0003	TLR_E_EIP_ENCAP_OUT_OF_MEMORY System is out of memory
0xC01E0010	TLR_E_EIP_ENCAP_OUT_OF_PACKETS Task runs out of empty packets at the local packet pool
0xC01E0011	TLR_E_EIP_ENCAP_SEND_PACKET Sending a packet failed
0xC01E0012	TLR_E_EIP_ENCAP_SOCKET_OVERRUN No free socket is available
0xC01E0013	TLR_E_EIP_ENCAP_INVALID_SOCKET Socket ID is invalid
0xC01E0014	TLR_E_EIP_ENCAP_CEP_OVERRUN Connection could not be opened. No resource for a new Connection Endpoint available
0xC01E0015	TLR_E_EIP_ENCAP_UCMM_OVERRUN Message could not send. All Unconnected Message Buffers are in use
0xC01E0016	TLR_E_EIP_ENCAP_TRANSP_OVERRUN Connection could not be opened. All transports are in use
0xC01E0017	TLR_E_EIP_ENCAP_UNKNOWN_CONN_TYP Received message includes an unknown connection type
0xC01E0018	TLR_E_EIP_ENCAP_CONN_CLOSED Connection was closed
0xC01E0019	TLR_E_EIP_ENCAP_CONN_RESETE Connection is reset from remote device
0x001E001A	TLR_S_EIP_ENCAP_CONN_UNREGISTER We closed the connection successful. With an unregister command
0xC01E001B	TLR_E_EIP_ENCAP_CONN_STATE Wrong connection state for this service
0xC01E001C	TLR_E_EIP_ENCAP_CONN_INACTIV Encapsulation session was deactivated
0xC01E001D	TLR_E_EIP_ENCAP_INVALID_IPADDR received an invalid IP address
0xC01E001E	TLR_E_EIP_ENCAP_INVALID_TRANSP Invalid transport type
0xC01E001F	TLR_E_EIP_ENCAP_TRANSP_INUSE Transport is in use
0xC01E0020	TLR_E_EIP_ENCAP_TRANSP_CLOSED Transport is closed
0xC01E0021	TLR_E_EIP_ENCAP_INVALID_MSGID The received message has an invalid message ID
0xC01E0022	TLR_E_EIP_ENCAP_INVALID_MSG invalid encapsulation message received

Hexadecimal Value	Definition Description
0xC01E0023	TLR_E_EIP_ENCAP_INVALID_MSGLEN Received message with invalid length
0xC01E0030	TLR_E_EIP_ENCAP_CL3_TIMEOUT Class 3 connection runs into timeout
0xC01E0031	TLR_E_EIP_ENCAP_UCMM_TIMEOUT Unconnected message gets a timeout
0xC01E0032	TLR_E_EIP_ENCAP_CL1_TIMEOUT Timeout of a class 3 connection
0xC01E0033	TLR_W_EIP_ENCAP_TIMEOUT Encapsulation service is finished by timeout
0xC01E0034	TLR_E_EIP_ENCAP_CMDRUNNING Encapsulation service is still running
0xC01E0035	TLR_E_EIP_ENCAP_NO_TIMER No empty timer available
0xC01E0036	TLR_E_EIP_ENCAP_INVALID_DATA_IDX The data index is unknown by the task. Please ensure that it is the same as at the indication.
0xC01E0037	TLR_E_EIP_ENCAP_INVALID_DATA_AREA The parameter of the data area are invalid. Please check length and offset.
0xC01E0039	TLR_E_EIP_ENCAP_TASK_RESETING Ethernet/IP Encapsulation Layer runs a reset.

Table 46: Status/Error Codes *EipEncap-Task* - EtherNet/IP Scanner Protocol API 09

18.2.1 Diagnostic Codes EipEncap-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC01E0001	TLR_DIAG_E_EIP_ENCAP_NO_LIDENTITY_PACKET No free packet available to indicate the received List Identity information.
0xC01E0002	TLR_DIAG_E_EIP_ENCAP_NO_ENCAP_CMD_PACKET No free packet available to send a request to the ethernet interface.
0xC01E0003	TLR_DIAG_E_EIP_ENCAP_NO_REGISTER_PACKET No free packet available to send a register session request to the ethernet interface.
0xC01E0004	TLR_DIAG_E_EIP_ENCAP_CMD_TCP_SEND_PACKET_FAIL Send packet to the ethernet interface failed.
0xC01E0005	TLR_DIAG_E_EIP_ENCAP_NO_LSERVICE_PACKET No free packet available to indicate the received List Service information.
0xC01E0006	TLR_DIAG_E_EIP_ENCAP_NO_LINTERFACE_PACKET No free packet available to indicate the received List Interface information.
0xC01E0007	TLR_DIAG_E_EIP_ENCAP_NO_MULTICAST_JOIN_PACKET No free packet available to join the multicast group.
0xC01E0008	TLR_DIAG_E_EIP_ENCAP_NO_MULTICAST_DROP_PACKET No free packet available to drop the multicast group.
0xC01E0009	TLR_DIAG_E_EIP_ENCAP_CONNECTING_INVALID_PACKET_ID By establishing a new connection an invalid packet ID was received.
0xC01E000A	TLR_DIAG_E_EIP_ENCAP_WAIT_CONN_INVALID_PACKET_ID By waiting for a connection an invalid packet ID was received.
0xC01E000B	TLR_DIAG_E_EIP_ENCAP_CEP_OVERRUN No free connection endpoints are available.
0xC01E000C	TLR_DIAG_E_EIP_ENCAP_CONNECTION_INACTIVE Receive data from an inactive or unknown connection.
0xC01E000D	TLR_DIAG_W_EIP_ENCAP_CONNECTION_CLOSED Connection is closed.
0xC01E000E	TLR_DIAG_W_EIP_ENCAP_CONNECTION_RESET Connection is reset.
0xC01E000F	TLR_DIAG_E_EIP_ENCAP_RECEIVED_INVALID_DATA Received invalid data, connection is closed.
0xC01E0010	TLR_DIAG_E_EIP_ENCAP_UNKNOWN_CONNECTION_TYP Receive data from an unknown connection type.
0xC01E0011L	TLR_DIAG_E_EIP_ENCAP_CEP_STATE_ERROR Command is not allowed at the current connection endpoint state.
0xC01E0012L	TLR_DIAG_E_EIP_ENCAP_NO_INDICATION_PACKET No free packet available to send a indication of the received data.
0xC01E0013L	TLR_DIAG_E_EIP_ENCAP_RECEIVER_OUT_OF_MEMORY No memory for a receive buffer is available, data could not received.
0xC01E0014L	TLR_DIAG_E_EIP_ENCAP_NO_ABORT_IND_PACKET No free packet available to send a abort transport indication.
0xC01E0015L	TLR_DIAG_E_EIP_ENCAP_START_CONNECTION_FAIL Starting the connection failed. Connection endpoint is invalid.

Hexadecimal Value	Definition Description
0xC01E0016L	TLR_DIAG_E_EIP_ENCAP_NO_GET_TCP_CONFIG_PACKET No free packet for requesting the actual configuration from the TCP task.

Table 47: Diagnostic Codes *EipEncap-Task* - EtherNet/IP Scanner Protocol API 09

18.3 Status/Error Codes APM-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC05A0001	TLR_E_EIP_APM_COMMAND_INVALID Invalid command received.
0xC05A0002	TLR_E_EIP_APM_PACKET_LENGTH_INVALID Invalid packet length.
0xC05A0003	TLR_E_EIP_APM_PACKET_PARAMETER_INVALID Parameter of the packet are invalid.
0xC05A0004	TLR_E_EIP_APM_TCP_CONFIG_FAIL Configuration of TCP/IP failed.
0xC05A0005	TLR_E_EIP_APM_CONNECTION_CLOSED Existing connection is closed.
0xC05A0006	TLR_E_EIP_APM_ALREADY_REGISTERED An application is already registered.
0xC05A0007	TLR_E_EIP_APM_ACCESS_FAIL Command is not allowed.
0xC05A0008	TLR_E_EIP_APM_STATE_FAIL Command not allowed at this state.
0xC05A0009	TLR_E_EIP_APM_NO_CONFIG_DBM Database config.dpm not found.
0xC05A000A	TLR_E_EIP_APM_NO_NWID_DBM Database nwid.dpm not found.
0xC05A000B	TLR_E_EIP_APM_CONFIG_DBM_INVALID Database config.dpm invalid.
0xC05A000C	TLR_E_EIP_APM_NWID_DBM_INVALID Database nwid.dpm invalid.
0xC05A000D	TLR_E_EIP_APM_FOLDER_NOT_FOUND Channel folder not found.
0xC05A000E	TLR_E_EIP_APM_IO_OFFSET_INVALID Invalid dual port memory I/O offset.

Table 48: Status/Error codes APM-Task - EtherNet/IP Scanner Protocol API 09

18.3.1 Diagnostic Codes APM-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC05A0001	TLR_DIAG_E_EIP_APM_TCP_CONFIG_FAIL TCP stack configuration failed.
0xC05A0002	TLR_DIAG_E_EIP_APM_CONNECTION_CLOSED Existing connection is closed.

Table 49: Diagnostic Codes APM-Task - EtherNet/IP Scanner Protocol API 09

18.4 CIP General Error Codes

The following table contains the possible General Error Codes defined within the EtherNet/IP standard.

General Status Code (specified hexadecimally)	Status Name	Description
00	Success	The service has successfully been performed by the specified object.
01	Connection failure	A connection-related service failed. This happened at any location along the connection path.
02	Resource unavailable	Some resources which were required for the object to perform the requested service were not available.
03	Invalid parameter value	See status code 0x20, which is usually applied in this situation.
04	Path segment error	A path segment error has been encountered. Evaluation of the supplied path information failed.
05	Path destination unknown	The path references an unknown object class, instance or structure element causing the abort of path processing.
06	Partial transfer	Only a part of the expected data could be transferred.
07	Connection lost	The connection for messaging has been lost.
08	Service not supported	The requested service has not been implemented or has not been defined for this object class or instance.
09	Invalid attribute value	Detection of invalid attribute data
0A	Attribute list error	An attribute in the Get_Attribute_List or Set_Attribute_List response has a status not equal to 0.
0B	Already in requested mode/state	The object is already in the mode or state which has been requested by the service
0C	Object state conflict	The object is not able to perform the requested service in the current mode or state
0D	Object already exists	It has been tried to create an instance of an object which already exists.
0E	Attribute not settable	It has been tried to change a non-modifiable attribute.
0F	Privilege violation	A check of permissions or privileges failed.
10	Device state conflict	The current mode or state of the device prevents the execution of the requested service.
11	Reply data too large	The data to be transmitted in the response buffer requires more space than the size of the allocated response buffer
12	Fragmentation of a primitive value	The service specified an operation that is going to fragment a primitive data value, i.e. half a REAL data type.
13	Not enough data	The service did not supply all required data to perform the specified operation.
14	Attribute not supported	An unsupported attribute has been specified in the request
15	Too much data	More data than was expected were supplied by the service.
16	Object does not exist	The specified object does not exist in the device.
17	Service fragmentation sequence not in progress	Fragmentation sequence for this service is not currently active for this data.

General Status Code (specified hexadecimally)	Status Name	Description
18	No stored attribute data	The attribute data of this object has not been saved prior to the requested service.
19	Store operation failure	The attribute data of this object could not be saved due to a failure during the storage attempt.
1A	Routing failure, request packet too large	The service request packet was too large for transmission on a network in the path to the destination. The routing device was forced to abort the service.
1B	Routing failure, response packet too large	The service response packet was too large for transmission on a network in the path from the destination. The routing device was forced to abort the service.
1C	Missing attribute list entry data	The service did not supply an attribute in a list of attributes that was needed by the service to perform the requested behavior.
1D	Invalid attribute value list	The service returns the list of attributes containing status information for invalid attributes.
1E	Embedded service error	An embedded service caused an error.
1F	Vendor specific error	A vendor specific error has occurred. This error should only occur when none of the other general error codes can correctly be applied.
20	Invalid parameter	A parameter which was associated with the request was invalid. The parameter does not meet the requirements of the CIP specification and/or the requirements defined in the specification of an application object.
21	Write-once value or medium already written	An attempt was made to write to a write-once medium for the second time, or to modify a value that cannot be changed after being established once.
22	Invalid reply received	An invalid reply is received. Possible causes can for instance be among others a reply service code not matching the request service code or a reply message shorter than the expectable minimum size.
23-24	Reserved	Reserved for future extension of CIP standard
25	Key failure in path	The key segment (i.e. the first segment in the path) does not match the destination module. More information about which part of the key check failed can be derived from the object specific status.
26	Path size Invalid	Path cannot be routed to an object due to lacking information or too much routing data have been included.
27	Unexpected attribute in list	It has been attempted to set an attribute which may not be set in the current situation.
28	Invalid member ID	The Member ID specified in the request is not available within the specified class/ instance or attribute
29	Member cannot be set	A request to modify a member which cannot be modified has occurred
2A	Group 2 only server general failure	This DeviceNet-specific error cannot occur in EtherNet/IP
2B-CF	Reserved	Reserved for future extension of CIP standard
D0-FF	Reserved for object class and service errors	An object class specific error has occurred.

Table 50: General Error Codes according to CIP Standard - EtherNet/IP Scanner Protocol API 09

18.5 Status/Error Codes Eip_DLR-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0950001	TLR_E_EIP_DLR_COMMAND_INVALID Invalid command received.
0xC0950002	TLR_E_EIP_DLR_NOT_INITIALIZED DLR task is not initialized.
0xC0950003	TLR_E_EIP_DLR_FNC_API_INVALID_HANDLE Invalid DLR handle at API function call.
0xC0950004	TLR_E_EIP_DLR_INVALID_ATTRIBUTE Invalid DLR object attribute.
0xC0950005	TLR_E_EIP_DLR_INVALID_PORT Invalid port.
0xC0950006	TLR_E_EIP_DLR_LINK_DOWN Port link is down.
0xC0950007	TLR_E_EIP_DLR_MAX_NUM_OF_TASK_INST_EXCEEDED Maximum number of EthernetIP task instances exceeded.
0xC0950008	TLR_E_EIP_DLR_INVALID_TASK_INST Invalid task instance.
0xC0950009	TLR_E_EIP_DLR_CALLBACK_NOT_REGISTERED Callback function is not registered.
0xC095000A	TLR_E_EIP_DLR_WRONG_DLR_STATE Wrong DLR state.
0xC095000B	TLR_E_EIP_DLR_NOT_CONFIGURED_AS_SUPERVISOR Not configured as supervisor.
0xC095000C	TLR_E_EIP_DLR_INVALID_CONFIG_PARAM Configuration parameter is invalid.
0xC095000D	TLR_E_EIP_DLR_NO_STARTUP_PARAM_AVAIL No startup parameters available.

Table 51: Status/Error Codes Eip_DLR-Task - EtherNet/IP Scanner Protocol API 09

19 IO-Link Master API

19.1 Event Codes

Using the *EventCode* parameter the reason of an event can be specified.

The following table contains the event codes defined in the IO-Link Communication Specification, IO-Link Consortium, Karlsruhe, 2009.

Code hex.	Meaning
0000	No malfunction
1000	General malfunction
1800 .. 1FFF	General malfunction (manufacturer specific)
4000	Temperature
4100	Ambient temperature
4110	Excess ambient temperature
4120	Too low ambient temperature
4200	Temperature device
4210	Excess temperature device
4220	Too low temperature device
4300	Temperature periphery
4310	Excess temperature periphery
4320	Too low temperature periphery
5000	Device hardware
5010	Component malfunction
5100	Supply
5110	Supply low voltage
5111	U1 = supply +/- 15 V
5112	U2 = supply + 24 V
5113	U3 = supply + 5 V
5114..5119	U4 .. U9 = manufacturer specific
5151	Short circuit
5160	Supply periphery
5200	Control
5300	Operating unit
5400	Power section
5410	Output stages
5450	Fuses
5451	S1 = L1
5452	S2 = L2
5453	S3 = L3
5454 .. 5459	S4 .. S9 = manufacturer specific
5500	Additional communication
5510	Communication interface no. 1
5520	Communication interface no. 2
6000	Device software

Code hex.	Meaning
6010	Software reset (watchdog)
6100	Internal software
6300	Data record
6310	Loss of parameter
6320	Parameter error
6330	Parameter not initialized
6340	Parameter non specific
6350	Parameter changed
8000	Monitoring
8100	Communication
8110	Process data monitoring
8C00	Application
8C10	Excess process variable RANGE
8C20	Excess measurement range
8C30	To low process variable range
8C40	Advance warning
8CA0 ... 8CFF	Manufacturer specific
8D00 ... 8DFF	User defined (customer specific event mapping)
9000	External malfunction
FF00 ... FFFF	IO-Link specific event codes

Table 52: Event Codes - IO-Link Master API 01

19.2 Error Code

The following error codes are defined in the IO-Link Communication Specification, Annex A:

Name	Type	Origin	Value (hex.)	Remark
S_PDU_BUFFER	PDU buffer overflow	Remote	52	Device buffer is too small for storing the complete PDU
M_PDU_CHECK	PDU checksum error (master)	Local	56	Calculated PDU checksum in master does not match actually received SPDU
S_PDU_CHECK	PDU checksum error (device)	Remote	56	Calculated PDU checksum in device does not match actually received SPDU
S_PDU_FLOW	PDU flow control error	Remote	56	Violation of flow control rule during transfer of SPDU between master and device
M_PDU_ILLEGAL	Illegal PDU service primitive (master)	Local	57	Unknown service primitive or wrong response e.g. Read Response on Write Request
S_PDU_ILLEGAL	Illegal PDU service primitive (device)	Remote	58	Unknown service primitive e.g. different protocol revision
COM_ERR	Communication error	Local / remote	10	Negative service response initiated by a communication error, e.g.. interruption of IO-Link connection
S_APP_DEV	Device application error	Remote	80	Service PDU transferred, but not processed due to device error. See error details in Additional Code.

Table 53: Error Code to be used in AL_ReadNegCon - IO-Link Master API 01

In column *Origin* local means the problem is located at the master, remote means it is located at the device.

19.3 Additional Code

For providing more detailed information about the error that has occurred, the additional code can be used.

The following additional codes are defined in the IO-Link Communication Specification, Annex A:

Type	Value (hex.)	Remark
No data	00	
Index not available	11	
Subindex not available	12	
Service temporarily not available	20	
Service temporarily not available, local control	21	local operation at device inhibits access
Service temporarily not available, device control	22	device state does not allow access. e.g. during teach or calibration
Access denied	23	e.g. write on read-only parameter
Parameter value out of range	30	
Parameter value above limit	31	
Parameter value below limit	32	
Interfering parameter	40	collision with other parameter values
Application failure	81	e.g. separate application and communication processors
Application not ready	82	e.g. separate application and communication processors
No data	00	
Index not available	11	
Subindex not available	12	
Service temporarily not available	20	
Service temporarily not available, local control	21	local operation at device inhibits access
Service temporarily not available, device control	22	device state does not allow access. e.g. during teach or calibration

Table 54: Additional Code to be used in AL_ReadNegCon - IO-Link Master API 01

20 MODBUS RTU Protocol API

Definition	Value	Description
TLR_E_MODBUS_RTU_COMMAND_INVALID	0xC06E0001L	Invalid command.
TLR_E_MODBUS_RTU_CONFIG_LOCK	0xC06E0002L	Configuration is locked.
TLR_E_MODBUS_RTU_OPEN_DBM_FILE	0xC06E0003L	Failed to open configuration database.
TLR_E_MODBUS_RTU_DATASET	0xC06E0004L	Failed to open configuration dataset.
TLR_E_MODBUS_RTU_TABLE_GLOBAL	0xC06E0005L	Failed to open GLOBAL configuration dataset.
TLR_E_MODBUS_RTU_TABLE_BUS_ON	0xC06E0006L	Failed to open BUS_ON configuration dataset.
TLR_E_MODBUS_RTU_SIZE_TABLE_BUS_ON	0xC06E0007L	Invalid size of BUS_ON configuration dataset.
TLR_E_MODBUS_RTU_TABLE_MAIN	0xC06E0008L	Failed to open MAIN configuration dataset.
TLR_E_MODBUS_RTU_SIZE_TABLE_MAIN	0xC06E0009L	Invalid size of MAIN configuration dataset.
TLR_E_MODBUS_RTU_COMMAND_RUNNING	0xC06E000AL	Request already running.
TLR_E_MODBUS_RTU_NO_ERROR	0xC06E000BL	Positive confirmation on carrying out of command.
TLR_E_MODBUS_RTU_TASK_NOT_INIT	0xC06E000CL	A command to the task has been rejected because the task has not been, or was incorrectly, initialized.
TLR_E_MODBUS_RTU_SERIAL_INT_OCC	0xC06E000DL	The serial interface has already been initialized by another task. Error in the "Communication line" parameter.
TLR_E_MODBUS_RTU_INIT_BAUDRATE	0xC06E000EL	Invalid value for the "Baudrate" initialization parameter.
TLR_E_MODBUS_RTU_INIT_PARITY	0xC06E000FL	Invalid value for the "Parity" initialization parameter.
TLR_E_MODBUS_RTU_INIT_DATABITS	0xC06E0010L	Invalid value for the "Databits" initialization parameter.
TLR_E_MODBUS_RTU_INIT_STOPBITS	0xC06E0011L	Invalid value for the "Stopbits" initialization parameter.
TLR_E_MODBUS_RTU_INIT_RTS_CONTROL	0xC06E0012L	Invalid value for the "RTS-Control" initialization parameter.
TLR_E_MODBUS_RTU_INIT_MODE	0xC06E0013L	Invalid value for the "Mode" initialization parameter.
TLR_E_MODBUS_RTU_INIT_MODBUS_ADDR	0xC06E0014L	Invalid value for the "Modbus address" initialization parameter.
TLR_E_MODBUS_RTU_INIT_TIMEOUT	0xC06E0015L	Invalid value for the "Timeout" initialization parameter.
TLR_E_MODBUS_RTU_INIT_RETRIES	0xC06E0016L	Invalid value for the "Retries" initialization parameter.
TLR_E_MODBUS_RTU_INIT_ERROR_LED	0xC06E0017L	Invalid value for the "Error-LED" initialization parameter.
TLR_E_MODBUS_RTU_PARITY	0xC06E0018L	The interface controller has detected a parity error.
TLR_E_MODBUS_RTU_FRAMING	0xC06E0019L	The interface controller has detected a "Framing error".
TLR_E_MODBUS_RTU_MUCH_LESS_DATA	0xC06E001AL	More than 240 user data have been received.
TLR_E_MODBUS_RTU_CRC	0xC06E001BL	A CRC error has been determined in the received telegram.
TLR_E_MODBUS_RTU_TIMEOUT_TELEGRAM	0xC06E001CL	The coupling partner has not answered within the monitoring time.
TLR_E_MODBUS_RTU_EXCEPTION_UNKNOWN	0xC06E001DL	This is an undefined "Exception response code", i.e. 0 or greater than 9 have been received.
TLR_E_MODBUS_RTU_EXCEPTION_1	0xC06E001EL	The accessed Slave has answered with an "Exception response code 1".
TLR_E_MODBUS_RTU_EXCEPTION_2	0xC06E001FL	The accessed Slave has answered with an "Exception response code 2".
TLR_E_MODBUS_RTU_EXCEPTION_3	0xC06E0020L	The accessed Slave has answered with an "Exception response code 3".
TLR_E_MODBUS_RTU_EXCEPTION_4	0xC06E0021L	The accessed Slave has answered with an "Exception response code 4".
TLR_E_MODBUS_RTU_EXCEPTION_5	0xC06E0022L	The accessed Slave has answered with an "Exception response code 5".
TLR_E_MODBUS_RTU_EXCEPTION_6	0xC06E0023L	The accessed Slave has answered with an "Exception response code 6".

Definition	Value	Description
TLR_E_MODBUS_RTU_EXCEPTION_7	0xC06E0024L	The accessed Slave has answered with an "Exception response code 7".
TLR_E_MODBUS_RTU_EXCEPTION_8	0xC06E0025L	The accessed Slave has answered with an "Exception response code 8".
TLR_E_MODBUS_RTU_EXCEPTION_9	0xC06E0026L	The accessed Slave has answered with an "Exception response code 9".
TLR_E_MODBUS_RTU_RCV_INV_SLAVE_ADDR	0xC06E0027L	The Slave address in the answering telegram is not that of the addressed Slave.
TLR_E_MODBUS_RTU_RCV_INV_FUNC_CODE	0xC06E0028L	The function information in the received Modbus telegram does not correspond with the issued function.
TLR_E_MODBUS_RTU_RCV_INV_BYTECOUNT	0xC06E0029L	The given data count in the received Modbus telegram (bytecount) does not correspond with the transmitted data count.
TLR_E_MODBUS_RTU_RCV_MUCH_LESS_DATA	0xC06E002AL	Incorrect data count in the received Modbus telegram.
TLR_E_MODBUS_RTU_RCV_INV_DATA_ADDR	0xC06E002BL	Incorrect data address in the received Modbus telegram.
TLR_E_MODBUS_RTU_RCV_INV_DIAG_CODE	0xC06E002CL	Only the 0 diagnostic code, i.e. "Loopback test", is permissible.
TLR_E_MODBUS_RTU_TIMEOUT_MESSAGE	0xC06E002DL	A time monitoring error has occurred as no answer has arrived from the application program in the parameterized Timeout.
TLR_E_MODBUS_RTU_FUNCTION	0xC06E002EL	Invalid Function Code.
TLR_E_MODBUS_RTU_FRAME_NOK	0xC06E002FL	There is an invalid reply from the slave.
TLR_E_MODBUS_RTU_CONFIG_BACKUP	0xC06E0030L	Creating a back up copy of the warm start parameters did not succeed.
TLR_E_MODBUS_RTU_INIT_ACTIVE	0xC06E0031L	The function information in the received Modbus telegram does not correspond with the issued function.
TLR_E_MODBUS_RTU_INIT_FAILED	0xC06E0032L	The given data count in the received Modbus telegram (bytecount) does not correspond with the transmitted data count.
TLR_E_MODBUS_RTU_INIT_UART_FAILED	0xC06E0033L	There is an error while UART initialization.
TLR_E_MODBUS_RTU_HOST_NOT_REGISTERED	0xC06E0034L	The Host application is not registered. All requests from it will be rejected.
TLR_E_MODBUS_RTU_INVALID_DIAG_TYPE	0xC06E0035L	The incoming diagnostic type is not valid.

Table 55: Status/Error Codes Overview - MODBUS RTU Protocol API 05

21 OpenModbusTCP Protocol API

21.1 Status/Error Codes OMB-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0000004	TLR_E_UNKNOWN_COMMAND Unknown Command in Packet received
0xC0000007	TLR_E_INVALID_PACKET_LEN Packet length is invalid.
0xC000001A	TLR_E_REQUEST_RUNNING Request is already running.
0xC0600002	TLR_E_OMB_OMBTASK_SEND_IP_SET_CONFIG_FAILED Failed to forward the SET_CONFIG information to TCP_UDP task (because of a resource problem).
0xC0600003	TLR_E_OMB_OMBTASK_SYSTEM_FUNCTION_CODE Wrong function code.
0xC0600004	TLR_E_OMB_OMBTASK_MOD_MEM_MOD_START_ADR Wrong Modbus start address.
0xC0600005	TLR_E_OMB_OMBTASK_MOD_MEM_LEN IO mode: Wrong length of Memory map.
0xC0600006	TLR_E_OMB_OMBTASK_MOD_MEM_START_MEM_OFF IO mode: Wrong Start byte offset in Memory map.
0xC0600007	TLR_E_OMB_OMBTASK_MOD_MEM_SYSTEM_ERROR IO mode: System error.
0xC0600009	TLR_E_OMB_OMBTASK_INVALID_STARTUP_PARAMETER_POOL_ELEM_CNT Invalid Startup Parameter ulPoolElemCnt.
0xC060000A	TLR_E_OMB_OMBTASK_INVALID_STARTUP_PARAMETER_START_FLAGS Invalid Startup Parameter ulStartFlags.
0xC060000B	TLR_E_OMB_OMBTASK_INVALID_STARTUP_PARAMETER_OMB_CYCLE_EVENT Invalid Startup Parameter ulOmbCycleEvent.
0xC060000C	TLR_E_OMB_OMBTASK_APPLICATION_TIMER_CREATE_FAILED Failed to create an application timer (Timer task).
0xC060000D	TLR_E_OMB_OMBTASK_APPLICATION_TIMER_INIT_PACKET_FAILED Failed to initialize a packet of application timer (Timer task).
0xC060000E	TLR_E_OMB_OMBTASK_TCP_UDP_IDENTIFY_FAILED Failed to identify the TCP_UDP task.
0xC000000C	TLR_E_WATCHDOG_TIMEOUT Watchdog error occurred.
0xC0000119	TLR_E_NOT_CONFIGURED Configuration not available
0xC060000F	TLR_E_OMB_OMBTASK_TCP_UDP_QUEUE_IDENTIFY_FAILED The queue identification of TCP_UDP task queue has failed.
0xC0600010	TLR_E_OMB_OMBTASK_BUFFER_QUEUE_CREATE_FAILED Creation of buffer queue failed.
0xC0600012	TLR_E_OMB_OMBTASK_FLAGS_VALUE Invalid parameter 'Flags' (ulFlags)

Hexadecimal Value	Definition Description
0xC0600034	TLR_E_OMB_OMBTASK_SERVER_CONNECT_VALUE Invalid configuration data
0xC0600035	TLR_E_OMB_OMBTASK_ANSWER_TIMEOUT_VALUE Invalid configuration data
0xC0600036	TLR_E_OMB_OMBTASK_OPEN_TIMEOUT_VALUE Invalid parameter 'Omb Open Time' (ulOmbOpenTime).
0xC0600037	TLR_E_OMB_OMBTASK_MODE_VALUE Invalid parameter 'Mode' (ulMode).
0xC0600038	TLR_E_OMB_OMBTASK_SEND_TIMEOUT_VALUE Invalid parameter 'Send Timeout' (ulSendTimeout)
0xC0600039	TLR_E_OMB_OMBTASK_CONNECT_TIMEOUT_VALUE Invalid parameter 'Connect Timeout' (ulConnectTimeout).
0xC060003A	TLR_E_OMB_OMBTASK_CLOSE_TIMEOUT_VALUE Invalid parameter 'Close Timeout' (ulCloseTimeout).
0xC060003B	TLR_E_OMB_OMBTASK_SWAB_VALUE Invalid parameter 'Swap' (ulSwap).
0xC060003C	TLR_E_OMB_OMBTASK_ERR_INIT_TCP_TASK_NOT_READY TCP_UDP task not found
0xC060003D	TLR_E_OMB_OMBTASK_ERR_INIT_PLC_TASK_NOT_READY PLC task not found
0xC0600070	TLR_E_OMB_OMBTASK_ERR_ANSWER TCP_UDP task answered with an error.
0xC0600071	TLR_E_OMB_OMBTASK_ERR_STATE No socket in specific status found.
0xC0600072	TLR_E_OMB_OMBTASK_ERR_VALUE Invalid value in command.
0xC0600073	TLR_E_OMB_OMBTASK_ERR_TCP_TASK_STATE Error in TCP_UDP task state.
0xC0600074	TLR_E_OMB_OMBTASK_ERR_MODBUS Error in Modbus telegram - for further information, see next section.
0xC0600075	TLR_E_OMB_OMBTASK_ERR_NO_SOCKET No free and unused socket found.
0xC0600076)	TLR_E_OMB_OMBTASK_ERR_UNKNOWN_SOCKET TCP_UDP command for an unknown socket received.
0xC0600077	TLR_E_OMB_OMBTASK_ERR_TIMEOUT The timeout for the Client-Job is expired. Timeout-Count starts after target has received the command.
0xC0600078	TLR_E_OMB_OMBTASK_ERR_UNEXPECTED_CLOSE Socket was unexpected closed.
0xC0600079	TLR_E_OMB_OMBTASK_USER_NOT_READY The User is not ready (not registered).
0xC060007A	TLR_E_OMB_OMBTASK_NO_SOCKET_AVAILABLE OMB task is not able to open sockets (TCP_UDP task is not ready).
0xC060007C	TLR_E_OMB_OMBTASK_ERR_IP_CONFIG TCP_UDP task is in configuration status.
0xC060007D	TLR_E_OMB_OMBTASK_PLC_TASK_NOT_INITIALIZED No Dualport-memory access.

Hexadecimal Value	Definition Description
0xC060007E	TLR_E_OMB_OMBTASK_SEVER_SOCKET_CLOSED Server Socket is Closed before Answer is received
0xC06000A1	TLR_E_OMB_OMBTASK_DEVICE_ADR Invalid device address (IP address).
0xC06000A5	TLR_E_OMB_OMBTASK_DATA_CNT Invalid Data count.
0xC06000A7	TLR_E_OMB_OMBTASK_FUNCTION Wrong Function code. Function code is not supported.
0xC0600100	TLR_E_OMB_OMBTASK_MOD_DATA_ADR IO mode: Wrong Modbus address. Modbus address is outside of Memory map.
0xC0600101	TLR_E_OMB_OMBTASK_MOD_DATA_CNT IO mode: Wrong Data count in conjunction with the Modbus address. The access area is outside of Memory map.
0xC0600102	TLR_E_OMB_OMBTASK_MOD_FUNCTION_CODE IO mode: Wrong Function code. Function code is not supported.
0xC0600103	TLR_E_OMB_OMBTASK_MOD_DATA_TYPE IO mode: Wrong data type.
0xC0600104	TLR_E_OMB_OMBTASK_MOD_BIT_AREA IO mode: Addressed coil is outside of the IO area.
0xC0600106	TLR_E_OMB_OMBTASK_SEND_TCP_CONFIG_RELOAD_FAILED Failed to forward the configuration reload to TCP_UDP task (because of a resource problem).
0xC0600107	TLR_E_OMB_OMBTASK_WRONG_CONFIG_RELOAD_STS Wrong configuration reload state.
0xC0600108	TLR_E_OMB_OMBTASK_RESOURCE_OCCUPIED System error: The requested resource is occupied.
0xC0600109	TLR_E_OMB_OMBTASK_AP_ALREADY_REGISTERED An application is already registered.
0xC060010A	TLR_E_OMB_OMBTASK_AP_NOT_REGISTERED An application is not registered.
0xC060010B	TLR_E_OMB_OMBTASK_START_STOP_MODE Wrong mode ulMode in command OMB_OMBTASK_CMD_START_STOP_OMB_REQ.
0xC060010C	TLR_E_OMB_OMBTASK_START_STOP_STATE_CHANGE No senseful state change request (Start/stop) in command OMB_OMBTASK_CMD_START_STOP_OMB_REQ.
0xC060010D	TLR_E_OMB_OMBTASK_IO_MODE_COMMAND_INVALID IO mode: Invalid command received
0xC060010E	TLR_E_OMB_OMBTASK_STATE_NOT_RUNNING The OMB stack is not in running state (Info status: ulTaskState is not OMB_ST_TASK_RUNNING) or the Communication state is not operating (ulCommunicationState is not RCX_COMM_STATE_OPERATE).
0xC060010F	TLR_E_OMB_OMBTASK_MBAP_HEADER Wrong MBAP header received (Transaction Identifier, Protocol Identifier)
0xC0600110	TLR_E_OMB_OMBTASK_UNIT_ID Invalid Unit identifier (ulUnitId).
0xC0600111	TLR_E_OMB_OMBTASK_EXCEPTION Invalid Exception code (ulException).

Hexadecimal Value	Definition Description
0xC0600112	TLR_E_OMB_OMBTASK_MBAP_LENGTH Invalid MBAP header Length value.
0xC0600113	TLR_E_OMB_OMBTASK_PDU_BYTE_COUNT Invalid PDU Byte count.
0xC0600114	TLR_E_OMB_OMBTASK_PDU_REF_NUMBER Invalid PDU Reference Number (Starting Address).
0xC0600115	TLR_E_OMB_OMBTASK_PDU_DATA_CNT Invalid PDU Data count (Quantity).
0xC0600116	TLR_E_OMB_OMBTASK_PDU_VALUE Invalid PDU Value.
0xC0600117	TLR_E_OMB_OMBTASK_DATA_ADR Wrong Modbus address. The Modbus address is outside of the Modbus Data model (Range 0 ... 65535).
0xC0600118	TLR_E_OMB_OMBTASK_DATA_ADR_CNT Wrong Data count in conjunction with the Modbus address. The access area is outside of the Modbus Data model (Range 0 ... 65535).

Table 56: Status/Error Codes OMB-Task - OpenModbusTCP Protocol API 05

21.2 Status/Error codes OMB_AP-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0000004	TLR_E_UNKNOWN_COMMAND Unknown Command in Packet received
0xC000001A	TLR_E_REQUEST_RUNNING Request is already running.
0xC0000181	TLR_E_CONFIG_LOCK Changing configuration is not allowed.
0xC0610003	TLR_E_OMB_OMBAPTASK_WATCHDOG_PARAMETER Invalid parameter for watchdog supervision.
0xC0610004	TLR_E_OMB_OMBAPTASK_WATCHDOG_ACTIVATE Failed to activate watchdog supervision.
0xC0610006	TLR_E_OMB_OMBAPTASK_SYS_FLAG_PARAMETER Invalid parameter for system flags
0xC0610007	TLR_E_OMB_OMBAPTASK_INVALID_STARTUP_PARAMETER_QUE_ELEM_CNT Invalid Startup Parameter ulQueElemCnt.
0xC0610008)	TLR_E_OMB_OMBAPTASK_INVALID_STARTUP_PARAMETER_POOL_ELEM_CNT Invalid Startup Parameter ulPoolElemCnt.
0xC0610009	TLR_E_OMB_OMBAPTASK_INVALID_STARTUP_PARAMETER_START_FLAGS Invalid Startup Parameter ulStartFlags.
0xC061000A	TLR_E_OMB_OMBAPTASK_INVALID_STARTUP_PARAMETER_CHN_INST Invalid Startup Parameter ulChnInst.
0xC061000B	TLR_E_OMB_OMBAPTASK_FATAL_ERROR_OMB_TASK The OMB task reports a fatal error. System has stopped. See extended status tMidCodeDiag for further information.

Table 57: Status/Error Codes OMB_AP-Task - OpenModbusTCP Protocol API 05

22 Powerlink Controlled Node Protocol API

22.1 Status/Error Codes

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0000007	TLR_E_INVALID_PACKET_LEN Invalid packet length
0xC0150002	TLR_E_EPL_PDO_INVALID_STARTUP_PARAMETER Invalid Startup parameter.
0xC0160001	TLR_E_EPL_SDO_COMMAND_INVALID Invalid command received.
0xC0160002	TLR_E_EPL_SDO_PROTOCOL_TIMEOUT SDO Protocol Timeout occurred
0xC0160003	TLR_E_EPL_SDO_SCS_SPECIFIER_INVALID SDO Request invalid
0xC0160004	TLR_E_EPL_SDO_OUT_OF_MEMORY Out of memory during SDO access
0xC0160005	TLR_E_EPL_SDO_UNSUPPORTED_ACCESS_TO_OBJECT Unsupported access to object
0xC0160006	TLR_E_EPL_SDO_ATTEMPT_TO_READ_A_WRITE_ONLY_OBJECT Attempted to read a write-only object
0xC0160007	TLR_E_EPL_SDO_ATTEMPT_TO_WRITE_A_READ_ONLY_OBJECT Attempted to write a read-only object
0xC0160008	TLR_E_EPL_SDO_OBJECT_DOES_NOT_EXIST Object does not exist
0xC0160009	TLR_E_EPL_SDO_OBJECT_CAN_NOT_BE_MAPPED_INTO_THE_PDO Object cannot be mapped into the PDO
0xC016000A	TLR_E_EPL_SDO_OBJECTS_WOULD_EXCEED_PDO_LENGTH(Objects would exceed PDO length
0xC016000B	TLR_E_EPL_SDO_GENERAL_PARAMETER_ INCOMPATIBILITY_REASON General Parameter Incompatibility Reason
0xC016000C	TLR_E_EPL_SDO_GENERAL_INTERNAL_ INCOMPATIBILITY_IN_DEVICE General Internal Incompatibility in the device
0xC016000D	TLR_E_EPL_SDO_ACCESS_FAILED_DUE_TO_A_HARDWARE_ERROR Access failed due to a hardware error
0xC016000E	TLR_E_EPL_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_ DOES_NOT_MATCH Data type does not match. Length of service parameter does not match.
0xC016000F	TLR_E_EPL_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_ TOO_HIGH Data type does not match. Length of service parameter is too high.

Hexadecimal Value	Definition Description
0xC0160010	TLR_E_EPL_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_TOO_LOW Data type does not match. Length of service parameter is too low-
0xC0160011	TLR_E_EPL_SDO_SUBINDEX_DOES_NOT_EXIST Subindex does not exist
0xC0160012	TLR_E_EPL_SDO_VALUE_RANGE_OF_PARAMETER_EXCEEDED Value Range of parameter exceeded
0xC0160013	TLR_E_EPL_SDO_VALUE_OF_PARAMETER_WRITTEN_TOO_HIGH Value of parameter written too high
0xC0160014	TLR_E_EPL_SDO_VALUE_OF_PARAMETER_WRITTEN_TOO_LOW Value of parameter written too low
0xC0160015	TLR_E_EPL_SDO_MAXIMUM_VALUE_IS_LESS_THAN_MINIMUM_VALUE Maximum value is less than minimum value
0xC0160016	TLR_E_EPL_SDO_GENERAL_ERROR General error
0xC0160017	TLR_E_EPL_SDO_DATA_CANNOT_BE_TRANSFERRED_OR_STORED_TO_THE_APP Data cannot be transferred or stored to the application.
0xC0160018	TLR_E_EPL_SDO_DATA_NO_TRANSFER_DUE_TO_LOCAL_CONTROL Data cannot be transferred due to local control.
0xC0160019	TLR_E_EPL_SDO_DATA_NO_TRANSFER_DUE_TO_PRESENT_DEVICE_STATE Data cannot be transferred due to present device state.
0xC016001A	TLR_E_EPL_SDO_NO_OBJECT_DICTIONARY_PRESENT No object dictionary is present.
0xC016001B	TLR_E_EPL_SDO_UNKNOWN_ABORT_CODE Unknown abort code in SDO
0xC016001C	TLR_E_EPL_CONN_BUFFER_FULL Connection buffer full.
0xC016001D	TLR_E_EPL_SDO_INVALID_STARTUP_PARAMETER Invalid Startup parameter.
0xC016001E	TLR_E_EPLCN_SDO_OD_DPM_MODE_OBJECTS_CAN_ONLY_BE_READONLY DPM mode objects can only be defined read-only.
0xC016001F	TLR_E_EPLCN_SDO_OD_DPM_MODE_OBJECTS_DIRECTION_PARAMETER_INVALID DPM mode direction parameter is invalid.
0xC0160020	TLR_E_EPLCN_SDO_OD_DPM_MODE_SUBOBJECT_OFFSET_OUT_OF_RANGE DPM offset out of range of specified block.
0xC0170001	TLR_E_EPL_NMT_COMMAND_INVALID Invalid command received
0xC0170002	TLR_E_EPL_NMT_OUTPUT_DATA_INVALID Output data invalid.
0xC0170003	TLR_E_EPL_NMT_INPUT_DATA_OVERSIZED Input data oversized.
0xC0170004	TLR_E_EPL_NMT_NODE_INPUT_DATA_INVALID Node-specific Input data invalid.
0xC0170005	TLR_E_EPL_NMT_PDO_DOES_NOT_EXIST Node-specific PDO does not exist.

Hexadecimal Value	Definition Description
0xC0170006	TLR_E_EPL_NMT_PDO_EXIST Node-specific PDO exists.
0xC0170007	TLR_E_EPL_NMT_PDO_EXCEEDS_POLL_IN_SIZE PDO will exceed Poll In size.
0xC0170008	TLR_E_EPL_NMT_PDO_EXCEEDS_POLL_OUT_SIZE PDO will exceed Poll Out size.
0xC0170009	TLR_E_EPL_NMT_INVALID_STARTUP_PARAMETER Invalid startup parameters for task
0xC017000A	TLR_E_EPL_NMT_INVALID_STATE_CHANGE Invalid state change requested
0xC017000B	TLR_E_EPL_NMT_FAILED_TO_LOCK_MUTEX Failed to lock mutex.
0xC017000C	TLR_E_EPL_NMT_COULD_NOT_CREATE_SDO_MUTEX Could not create SDO mutex.
0xC017000D	TLR_E_EPL_NMT_COULD_NOT_CREATE_NMT_MUTEX Could not create NMT mutex.
0xC017000E	TLR_E_EPL_NMT_COULD_NOT_CREATE_ERRH_MUTEX Could not create Error Handling mutex.
0xC017000F	TLR_E_EPL_NMT_COULD_NOT_CREATE_SDO_TASK Could not create SDO task.
0xC0170010	TLR_E_EPL_NMT_COULD_NOT_CREATE_NMT_TASK Could not create NMT task.
0xC0170011	TLR_E_EPL_NMT_COULD_NOT_CREATE_SDO_SIGNAL Could not create SDO signal.
0xC0170012	TLR_E_EPL_NMT_COULD_NOT_CREATE_NMT_SIGNAL Could not create NMT signal.
0xC0170013	TLR_E_EPL_NMT_COULD_NOT_CREATE_BASIC_ETH_TIMER Could not create Basic Ethernet timer.
0xC0170014	TLR_E_EPL_NMT_COULD_NOT_CREATE_SOC_TIMER Could not create SoC timer.
0xC0170015	TLR_E_EPL_NMT_COULD_NOT_CREATE_SEQU_LAYER_TIMER Could not create Sequence Layer timer.
0xC0170016	TLR_E_EPL_NMT_COULD_NOT_CREATE_OBJECT_DICTIONARY Could not create object dictionary.
0xC0170017	TLR_E_EPL_NMT_EMERGENCY_QUEUE_OVERFLOW Emergency Queue overflow
0xC0170018	TLR_E_EPL_NMT_INVALID_STATUS_ENTRY_INDEX Invalid Status Entry index specified
0xC0170019	TLR_E_EPL_NMT_COULD_NOT_LOCK_MUTEX Could not lock internal mutex
0xC017001A	TLR_E_EPL_NMT_INVALID_STATIC_BIT_FIELD_NUMBER Invalid static bit field bit number
0xC017001B	TLR_E_EPL_NMT_NO_MORE_APP_HANDLES No more application handles available
0xC017001C	TLR_E_EPL_NMT_APP_NOT_REGISTERED Application is not registered

Hexadecimal Value	Definition Description
0xC017001D	TLR_E_EPL_NMT_APP_ALREADY_REGISTERED Application is already registered
0xC017001E	TLR_E_EPL_NMT_FAILED_TO_INITIALIZE_EPLCN_INTERFACE EplCn-Interface could not be initialized.
0xC017001F	TLR_E_EPL_NMT_INVALID_PARAMETERS Invalid Parameters.
0xC0190001	TLR_E_EPL_PLD_COMMAND_INVALID Invalid command received.
0xC0280001	TLR_E_OD2_OBJECT_IN_USE Object is currently in use
0xC0280002	TLR_E_OD2_INVALID_SUBINDEX Subindex does not exist
0xC0280003	TLR_E_OD2_INVALID_DATATYPE Invalid data type
0xC0280004	TLR_E_OD2_INVALID_BUFFER_PTR Invalid Buffer pointer
0xC0280005	TLR_E_OD2_INVALID_SECTOR Object does not exist
0xC0280006	TLR_E_OD2_INVALID_SUBSECTOR Object does not exist
0xC0280007	TLR_E_OD2_INVALID_OBJECT Object does not exist
0xC0280008	TLR_E_OD2_INVALID_INDEX Object does not exist
0xC0280009	TLR_E_OD2_SUBOBJECT_NOT_ALLOCATED Subobject does not exist
0xC028000A	TLR_E_OD2_BUFFER_TOO_SMALL Buffer too small
0xC028000B	TLR_E_OD2_READ_ONLY Attempted to write a read only object
0xC028000C	TLR_E_OD2_WRITE_ONLY Attempted to read a write only object
0xC028000D	TLR_E_OD2_SUBOBJECT_CNT_MISMATCH Subobject count mismatch
0x8028000E	TLR_W_OD2_SUBOBJECT_IS_ADDRESSED_RELATIVE Subobject is addressed relative to a base pointer.
0xC028000F	TLR_E_OD2_NOT_ENOUGH_MEMORY Out of memory
0xC028010	TLR_E_OD2_CALLBACK_IS_LOCKED Callback storage is locked
0xC0280011	TLR_E_OD2_DATATYPE_LENGTH_TOO_LONG Data type length is too long
0xC0280012L	TLR_E_OD2_PDO_LENGTH_WOULD_EXCEED PDO length would exceed maximum transfer size.
0xC0280013L	TLR_E_OD2_OBJECT_CANNOT_BE_PDO_MAPPED An object cannot be mapped in a PDO.

Hexadecimal Value	Definition Description
0xC0280014	TLR_E_OD2_BUFFER_TOO_BIG Buffer too big
0xC0280015	TLR_E_OD2_UNSUPPORTED_ACCESS Unsupported access
0xC0280016	TLR_E_OD2_VALUE_WRITTEN_TOO_HIGH Value written too high
0xC0280017	TLR_E_OD2_VALUE_WRITTEN_TOO_LOW Value written too low
0xC0280018L	TLR_E_OD2_OBJECT_ALREADY_EXISTS Object already exists.
0xC0280019L	TLR_E_OD2_SUBOBJECT_ALREADY_EXISTS Sub-Object already exists.
0xC028001AL	TLR_E_OD2_SUBOBJECT_DOES_NOT_EXIST () Sub-Object does not exist.
0xC028001BL	TLR_E_OD2_OBJECT_CREATION_LOCKED Object creation locked.
0xC03D0001L	TLR_E_EPL_MN_COMMAND_INVALID Invalid command received.
0xC03D0002L	TLR_E_EPL_MN_CN_EXISTS CN exists already.
0xC03D0003L	TLR_E_EPL_MN_CN_DOES_NOT_EXIST CN does not exist.
0xC03D0004L	TLR_E_EPL_MN_CN_ALREADY_CONNECTED CN already connected.
0xC03D0005L	TLR_E_EPL_MN_CN_NO_OUTPUT_DATA CN has no valid output data.

Table 58: Status/Error Codes - Powerlink Controlled Node Protocol API 07

23 PROFIBUS-DP Master Protocol API

23.1 Error Codes of the FSPMM-Task

Hexadecimal Value	Definition Description
0x00000000L	TLR_S_OK Status ok
0xC0000001L	TLR_E_FAIL Common error, detailed error information optionally present in the data area of packet
0xC0000007L	TLR_E_INVALID_PACKET_LEN Invalid packet length.
0xC000001AL	TLR_E_REQUEST_RUNNING A new request was received, but one request is still running.
0xC0000101L	TLR_E_DATABASE_ACCESS_FAILED Database couldn't be opened. No verification possible.
0xC0000102L	TLR_E_CIR_MASTER_PARAMETER_FAILED Parameters of the master were changed, which is not allowed.
0xC0000103L	TLR_E_CIR_SLAVE_PARAMTER_FAILED Result of the verification: One or more slave parameter set have an error.
0xC0380002L	TLR_E_PROFIBUS_FSPMM_INV_BUSMODE Invalid bus mode for this command.
0xC0380003L	TLR_E_PROFIBUS_FSPMM_RESET FSPMM task is reset.
0xC0380004L	TLR_E_PROFIBUS_FSPMM_ACLR Profibus Master is at auto clear state.
0xC0380005L	TLR_E_PROFIBUS_FSPMM_CONTROL_TIMER_EXPIRED Data Control Timer expired. No bus access for sending global control.
0xC0380006L	TLR_E_PROFIBUS_FSPMM_ALARM_OVERFLOW Alarm buffer overflow.
0xC0380007L	TLR_E_PROFIBUS_FSPMM_ALARM_NOT_INIT Alarm handler is not initialized.
0xC0380008L	TLR_E_PROFIBUS_FSPMM_ALARM_NOT_STARTED Alarm handler is not started.
0xC0380009L	TLR_E_PROFIBUS_FSPMM_ALARM_NOT_ENABLED Alarms are disabled.
0xC038000AL	TLR_E_PROFIBUS_FSPMM_ALARM_NOT_PENDING Alarm is not at a pending state.
0xC038000BL	TLR_E_PROFIBUS_FSPMM_ALARM_STATE_ERROR Invalid Alarm state.
0xC038000CL	TLR_E_PROFIBUS_FSPMM_ALARM_SEQ_ERROR Alarm sequence error occurred.
0xC038000DL	TLR_E_PROFIBUS_FSPMM_MSAC1_STATE_ERROR Alarm handler is not at the proper state.
0xC038000EL	TLR_E_PROFIBUS_FSPMM_MSAC1_FAULT Get an alarm acknowledge without an alarm.
0xC038000FL	TLR_E_PROFIBUS_FSPMM_INVALID_AREA_CODE Invalid area code or slave address received.
0xC0380012L	TLR_E_PROFIBUS_FSPMM_IV_BUS_PRM

Hexadecimal Value	Definition Description
	Invalid bus parameter received.
0xC0380013L	TLR_E_PROFIBUS_FSPMM_IV_SLAVE_PRM Invalid slave parameter received.
0xC0380014L	TLR_E_PROFIBUS_FSPMM_ACK_NO Command cannot be executed at the actual bus state.
0xC0380015L	TLR_E_PROFIBUS_FSPMM_ACK_GE Error while sending global control.
0xC0380016L	TLR_E_PROFIBUS_FSPMM_MSAL1_FAULT Failure at alarm handler. Alarm handler is stopped.
0xC0380017L	TLR_E_PROFIBUS_FSPMM_MSAC2_FAULT Failure at MSAC2 handler.
0xC0380018L	TLR_E_PROFIBUS_FSPMM_REJ_SE Device is stopping the communication or not in OPEN state.
0xC0380019L	TLR_E_PROFIBUS_FSPMM_REJ_PS A previous service is still in process.
0xC038001AL	TLR_E_PROFIBUS_FSPMM_REJ_LE Message has an invalid length.
0xC038001BL	TLR_E_PROFIBUS_FSPMM_REJ_IV Invalid parameter at request.
0xC038001CL	TLR_E_PROFIBUS_FSPMM_REJ_ABORT Device aborts DP V1 communication.
0xC038001DL	TLR_E_PROFIBUS_FSPMM_INVALID_SLAVE_ADDRESS Invalid slave address.
0xC038001EL	TLR_E_PROFIBUS_FSPMM_ALREADY_INITIALIZED FSPMM Already initialized.
0xC038001FL	TLR_E_PROFIBUS_FSPMM_INVALID_APPLICATION Command from not registered application.
0xC0380020L	TLR_E_PROFIBUS_FSPMM_DMPMM_IV_STATE Command not allowed in current state.
0xC0380021L	TLR_E_PROFIBUS_FSPMM_PB_FLAG_ERROR_ACTION_FLAG Function 'AUTO CLEAR' not supported.
0xC0380022L	TLR_E_PROFIBUS_FSPMM_PB_FLAG_ISO_MODE_MSK Function 'ISO_MODE' not supported.
0xC0380023L	TLR_E_PROFIBUS_FSPMM_DL_PB_FLAG_ISOM_SYNC Function 'ISO_MODE_SYNC' not supported.
0xC0380024L	TLR_E_PROFIBUS_FSPMM_DL_PB_FLAG_ISOM_FREEZE Function 'ISO_MODE_FREEZE' not supported.
0xC0380025L	TLR_E_PROFIBUS_FSPMM_MSAC1_NRS Negative response received.

Table 59: Error Messages of the FSPMM-Task - PROFIBUS-DP Master Protocol API 11

23.1.1 Diagnostic Codes of the FSPMM-Task

Hexadecimal Value	Definition Description
0xC0380001L	TLR_DIAG_E_PROFIBUS_FSPMM_DMPMM_NO_INIT_PACKET Getting a packet from the pool to initialize the Data Link failed.
0xC0380002L	TLR_DIAG_E_PROFIBUS_FSPMM_DMPMM_BUS_PARAMETER_REJECTED Command for setting the bus parameter is rejected.
0xC0380003L	TLR_DIAG_E_PROFIBUS_FSPMM_DMPMM_SSAP_ACTIVATE_FAIL Activating the source SAP failed.
0xC0380004L	TLR_DIAG_E_PROFIBUS_FSPMM_DMPMM_STATE_ERROR DMPMM state machine is at an invalid state.
0xC0380005L	TLR_DIAG_E_PROFIBUS_FSPMM_FSPMM_STATE_ERROR FSPMM state machine is at an invalid state.
0xC0380006L	TLR_DIAG_E_PROFIBUS_FSPMM_MSCY1M_STATE_ERROR MSCY1M state machine is at an invalid state.
0xC0380007L	TLR_DIAG_E_PROFIBUS_FSPMM_DMPMM_SSAP_ACTIVATE_RESPONDER_FAIL Activate RSAP failed.
0xC0380008L	TLR_DIAG_E_PROFIBUS_FSPMM_DMPMM_NO_GLBCTRL_PACKET Getting a packet from the pool to send global control failed.
0xC0380009L	TLR_DIAG_E_PROFIBUS_FSPMM_NOT_SUPPORTED Function is not supported at the current version of the stack.
0xC038000AL	TLR_DIAG_E_PROFIBUS_FSPMM_NO_DATABASE No database found.
0xC038000BL	TLR_DIAG_E_PROFIBUS_FSPMM_INVALID_DATABASE Getting a packet from the pool to initialize the Master state machine failed.
0xC038000CL	TLR_DIAG_E_PROFIBUS_FSPMM_UNKNOWN_TELEGRAM Telegram with an unknown SAP was received.
0xC038000EL	TLR_DIAG_E_PROFIBUS_FSPMM_UNKNOWN_DPV1_CMD Answer of an invalid DP V1 service received.
0xC0380010L	TLR_DIAG_E_PROFIBUS_FSPMM_TASK_PRM_VERSION_INVALID Invalid version of Task Parameters.

Table 60: Diagnostic Messages of the FSPMM-Task - PROFIBUS-DP Master Protocol API
11

23.2 Error Codes of the FSPMM2-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0000001	TLR_E_FAIL Common error, detailed error information optionally present in the data area of packet
0xC0690001L	TLR_E_PROFIBUS_FSPMM2_LENGTH_INVALID Invalid data length.
0xC0690002L	TLR_E_PROFIBUS_FSPMM2_NOT_IMPLEMENTED Service not implemented.
0xC0690003L	TLR_E_PROFIBUS_FSPMM2_ADD_INVALID Invalid address.
0xC0690004L	TLR_E_PROFIBUS_FSPMM2_SERVICE_IN_REQUEST Previous service already in request.
0xC0690005L	TLR_E_PROFIBUS_FSPMM2_NOT_IN_OPEN_STATE Connection is not in state open.
0xC0690006L	TLR_E_PROFIBUS_FSPMM2_OUT_OF_RESOURCES Out of resources for new connections.
0xC0690007L	TLR_E_PROFIBUS_FSPMM2_IN_USE Connection to this slave already in use.
0xC0690008L	TLR_E_PROFIBUS_FSPMM2_ALREADY_INIT Stack is already initialized.
0xC0690009L	TLR_E_PROFIBUS_FSPMM2_COM_REFERENCE_INVALID Invalid communication reference.
0xC069000AL	TLR_E_PROFIBUS_FSPMM2_TIMEOUT Timeout error.
0xC069000BL	TLR_E_PROFIBUS_FSPMM2_INITIATE_ABT_STO Parameter Send Timeout too small.
0xC069000CL	TLR_E_PROFIBUS_FSPMM2_INITIATE_ABT_FE Telegram format error.
0xC069000DL	TLR_E_PROFIBUS_FSPMM2_NRS Negative response.
0xC069000EL	TLR_E_PROFIBUS_FSPMM2_ABORT Service Aborted.
0xC0690100L	TLR_E_PROFIBUS_FSPMM2_CON_XX Service confirmation negative.

Table 61: Error Messages of the FSPMM2-Task - PROFIBUS-DP Master Protocol API 11

23.3 Error Codes of the DL-Task

Hexadecimal Value	Definition Description
0xC0060001L	TLR_E_PROFIBUS_DL_COMMAND_INVALID Invalid command received.
0xC0060040L	TLR_E_PROFIBUS_DL_XC_INVALID The assigned XC-Data Link Layer is not installed or has a pending error.
0xC0060041L	TLR_E_PROFIBUS_DL_BAUDRATE_INVALID The specified baudrate option is not supported and is out of range.
0xC0060042L	TLR_E_PROFIBUS_DL_GAP_UPDATE_INVALID The specified GAP update factor option is not supported and is out of range 1-100.
0xC0060043L	TLR_E_PROFIBUS_DL_DL_ADDR_INVALID The specified local Profibus address option is not supported and is out of range 0-125.
0xC0060044L	TLR_E_PROFIBUS_DL_RETRY_LIMIT The specified retry limit option is not supported and is zero.
0xC0060045L	TLR_E_PROFIBUS_DL_HSA_INVALID The specified highest station address option is not supported and is out of range 0-126.
0xC0060046L	TLR_E_PROFIBUS_DL_NO_BUS_PARAMETER_SET The service cannot be executed, there are no bus parameters specified yet.
0xC0060047L	TLR_E_PROFIBUS_DL_DLE_NOT_RESPONDING The service has detected a timeout at the connected XC-Data Link Layer entity.
0xC0060048L	TLR_E_PROFIBUS_DL_NO_DL_RESOURCE There are no further resource blocks available to execute the service within the connected XC-Data Link Layer entity.
0xC0060049L	TLR_E_PROFIBUS_DL_FATAL_DL_RESOURCE There are no further resource blocks available to execute the service within the connected XC-Data Link Layer entity.
0xC0060050L	TLR_E_PROFIBUS_DL_STOPPED Profibus is stopped command cannot be handled.
0xC0060051L	TLR_E_PROFIBUS_DL_PENDING_PACKET Previous pending packet is returned. It could not be handled.
0xC0060052L	TLR_E_PROFIBUS_DL_SLAVE_MODE Command could not be executed, DL-task is running at slave mode.
0xC0060080L	TLR_E_PROFIBUS_DL_ACK_UE The remote station the service has been sent to indicates a User Error as service acknowledgement.
0xC0060081L	TLR_E_PROFIBUS_DL_ACK_RR The remote station the service has been sent to indicates a Resource Error as service acknowledgement.
0xC0060082L	TLR_E_PROFIBUS_DL_ACK_RS The remote station the service has been sent to indicates a Service Access Point Error as service acknowledgement.
0xC0060083L	TLR_E_PROFIBUS_DL_ACK_NR The remote station the service has been sent to confirms its positive reception but has no data to confirm.
0xC0060084L	TLR_E_PROFIBUS_DL_ACK_RDH The remote station the service has been sent to, confirms its reception negatively but has returned low priority data in the response.
0xC0060085L	TLR_E_PROFIBUS_DL_ACK_RDL The remote station the service has been sent to, confirms its reception negatively but has returned

Hexadecimal Value	Definition Description
	high priority data in the response.
0xC0060086L	TLR_E_PROFIBUS_DL_ACK_DH The remote station the service has been sent to, confirms its reception positively and has returned low priority data in the response.
0xC0060087L	TLR_E_PROFIBUS_DL_ACK_DL The remote station the service has been sent to, confirms its reception positively and has returned high priority data in the response.
0xC0060088L	TLR_E_PROFIBUS_DL_ACK_NA The remote station the service has been sent to shows no or no plausible reaction at all.
0xC0060089L	TLR_E_PROFIBUS_DL_ACK_UNKNOWN The remote station the service has been sent has returned an unknown acknowledgement code.
0xC006008AL	TLR_E_PROFIBUS_DL_ACK_LS The requested service is not activated within the local SAP configuration.
0xC006008BL	TLR_E_PROFIBUS_DL_ACK_LR The local resources needed to execute the requested service are not available or not sufficient.
0xC006008CL	TLR_E_PROFIBUS_DL_ACK_DS The local data link layer is not in the logical token ring or disconnected from the network.
0xC006008DL	TLR_E_PROFIBUS_DL_ACK_IV Invalid parameter detected in the requested service.
0xC006008EL	TLR_E_PROFIBUS_DL_ACK_NO The local SAP is not activated because it has been activated already or resources are not sufficient.
0xC006008FL	TLR_E_PROFIBUS_DL_ACK_NO_SET The variable to be set does not exist.
0xC0060090L	TLR_E_PROFIBUS_DL_ACK_RE Format error of the telegram.
0xC0060091L	TLR_E_PROFIBUS_DL_TSET_INVALID The specified parameter TSET is out of range 1-255.

Table 62: Error Messages of the DL-Task - PROFIBUS-DP Master Protocol API 11

23.3.1 Diagnostic Codes of the DL-Task

Hexadecimal Value	Definition Description
0xC0060001L	TLR_DIAG_E_PROFIBUS_DL_DATA_ACK_RES Invalid "Data Ack (SDA)" response packet received. Response does not match to internally reserved communication block
0xC0060002L	TLR_DIAG_E_PROFIBUS_DL_DATA_RES Invalid "Data (SDN)" response packet received. Response does not match to internally reserved communication block
0xC0060003L	TLR_DIAG_E_PROFIBUS_DL_DATA_REPLY_RES Invalid "Data Reply (SRD)" response packet received. Response does not match to internally reserved communication block

Table 63: Diagnostic Messages of the DL-Task - PROFIBUS-DP Master Protocol API 11

23.4 Error Codes of the APM-Task

Hexadecimal Value	Definition Description
0xC0390003L	TLR_E_PROFIBUS_APM_TIO_RESET_W_MODE_STOP Timeout while stopping PROFIBUS.
0xC0390005L	TLR_E_PROFIBUS_APM_NON_EXCHANGE_SLAVE No data exchange with at least one slave.
0xC0390006L	TLR_E_PROFIBUS_APM_NON_EXCHANGE_ALL No slave in data exchange.
0xC0390008L	TLR_E_PROFIBUS_APM_CONFIG_VIA_DBM Already configured via data base.
0xC0390009L	TLR_E_PROFIBUS_APM_ALREADY_CONFIGURED Already configured.
0xC039000AL	TLR_E_PROFIBUS_APM_CHANNEL_INIT_IN_PROGRESS Channel initialization in progress.
0xC039000BL	TLR_E_PROFIBUS_APM_CHANNEL_INIT_FAILED Channel initialization failed.

Table 64: Error Messages of the APM-Task - PROFIBUS-DP Master Protocol API 11

23.4.1 Diagnostic Codes of the APM-Task

Hexadecimal Value	Definition Description
0xC0390032L	TLR_DIAG_E_PROFIBUS_APM_NO_FSPMM No FSPMM-Task or -queue found to communicate.
0xC039003AL	TLR_DIAG_E_PROFIBUS_ADR_DOUBLE Double station address detected.
0xC039003BL	TLR_DIAG_E_PROFIBUS_MAX_OUTPUT_OFFSET Maximum output offset reached.
0xC039003CL	TLR_DIAG_E_PROFIBUS_MAX_INPUT_OFFSET Maximum input offset reached
0xC039003DL	TLR_DIAG_E_PROFIBUS_OUTPUT_OVERLAP Overlap in output data.
0xC039003EL	TLR_DIAG_E_PROFIBUS_INPUT_OVERLAP Overlap in input data.
0xC03900DEL	TLR_DIAG_E_PROFIBUS_APM_AUTOCLEAR_ERROR Auto-clear activated.
0xC03900E1L	TLR_DIAG_E_PROFIBUS_APM_OUT_OF_PACKET No packet left to communicate.
0xC0390100L	TLR_DIAG_E_PROFIBUS_APM_NO_INIT_PACKET Getting a packet from the pool to initialize the Master state machine failed.
0xC0390101L	TLR_DIAG_E_PROFIBUS_APM_NO_SET_MODE_PACKET Getting a packet from the pool to set the Master mode failed.
0xC0390102L	TLR_DIAG_E_PROFIBUS_APM_NO_SET_OUTPUT_PACKET Getting a packet from the pool to set output date fail.
0xC0390103L	TLR_DIAG_E_PROFIBUS_APM_NO_GET_INPUT_PACKET Getting a packet from the pool to request input data failed.
0xC0390104L	TLR_DIAG_E_PROFIBUS_APM_GET_INPUT_FAIL Getting input data fail.
0xC0390105L	TLR_DIAG_E_PROFIBUS_APM_SET_OUTPUT_FAIL Write Slave output data failed.

Table 65: Diagnostic Messages of the APM-Task - PROFIBUS-DP Master Protocol API 11

24 PROFIBUS-DP Slave Protocol API

24.1 Error Codes of the FSPMS-Task

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC0000001	TLR_E_FAIL Common error, detailed error information optionally present in the data area of packet
0xC0090001	TLR_E_PROFIBUS_FSPMS_COMMAND_INVALID Invalid command received.
0xC0090002	TLR_E_PROFIBUS_FSPMS_MAX_EXT_DIAG_SIZE_EXCEEDED Setting the slave diagnostic failed, because the limit of the maximum number of 238 extended diagnostic bytes is exceeded.
0xC0090003	TLR_E_PROFIBUS_FSPMS_MAX_CFG_DATA_SIZE_EXCEEDED Setting the slave's configuration data failed, because the limit of the maximum number of 244 configuration bytes is exceeded.
0xC0090004	TLR_E_PROFIBUS_FSPMS_MS0_INIT_WRONG_STATE The cyclic slave state machine cannot be initialized, state machine is not in "POWER-ON" state.
0xC0090005	TLR_E_PROFIBUS_FSPMS_SLAVE_DIAG_POWER_ON Setting the Slave Diagnostic Data cannot be performed, because slave state machine isn't initialized yet.
0xC0090006	TLR_E_PROFIBUS_FSPMS_SET_CFG_POWER_ON Setting the Slave Configuration Data cannot be performed, because slave state machine isn't initialized yet.
0xC0090007	TLR_E_PROFIBUS_FSPMS_GET_OUTPUT_POWER_ON Getting the Slave Output Data cannot be performed, because slave state machine isn't initialized yet.
0xC0090008	TLR_E_PROFIBUS_FSPMS_GET_OUTPUT_WAIT_PRM Getting the Slave Output Data cannot be performed, because slave state is currently in state "WAIT-PRM".
0xC0090009	TLR_E_PROFIBUS_FSPMS_SET_INPUT_POWER_ON Setting the Slave Input Data cannot be performed, because slave state machine isn't initialized yet.
0xC009000A	TLR_E_PROFIBUS_FSPMS_SET_INPUT_WAIT_PRM Setting the Slave Input Data cannot be performed, because slave state is currently in state "WAIT-PRM".
0xC009000B	TLR_E_PROFIBUS_FSPMS_CHECK_USER_PRM_POWER_ON Confirming the Slave Parameter Data cannot be performed, because slave state machine isn't initialized yet.
0xC009000C	TLR_E_PROFIBUS_FSPMS_CHECK_USER_PRM_NOT_PENDING There is no Parameter Data checking command pending, command ignored.
0xC009000D	TLR_E_PROFIBUS_FSPMS_CHECK_USER_PRM_NEW_PARAMETER The confirmation of the Slave Parameter Data is obsolete, there is new Slave Parameter Data available.
0xC009000E	TLR_E_PROFIBUS_FSPMS_CHECK_CFG_POWER_ON Confirming the Slave Configuration Data cannot be performed, because slave state machine isn't initialized yet.
0xC009000F	TLR_E_PROFIBUS_FSPMS_CHECK_CFG_NOT_PENDING There is no Configuration Data checking command pending, command ignored.

Hexadecimal Value	Definition Description
0xC0090010	TLR_E_PROFIBUS_FSPMS_CHECK_CFG_NEW_CONFIGURATION The confirmation of the Slave Configuration Data is obsolete, there is new Slave Configuration Data available.
0xC0090011	TLR_E_PROFIBUS_FSPMS_CHECK_EXT_USER_PRM_POWER_ON Confirming the extended Slave Parameter Data cannot be performed, because slave state machine isn't initialized yet.
0xC0090012	TLR_E_PROFIBUS_FSPMS_CHECK_EXT_USER_PRM_NOT_PENDING There is no extended Parameter Data checking command pending, command ignored.
0xC0090013	TLR_E_PROFIBUS_FSPMS_CHECK_EXT_USER_PRM_NEW_PARAMETER The confirmation of the extended Slave Parameter Data is obsolete, there is new extended Slave Parameter Data available.
0xC0090014	TLR_E_PROFIBUS_FSPMS_ABORT_IGNORED The abort command is ignored in the current state of the slave state machine.
0xC0090015	TLR_E_PROFIBUS_FSPMS_GET_OUTPUT_WAIT_CFG Getting the Slave Output Data cannot be performed, because slave state is currently in state "WAIT-CFG".
0xC0090016	TLR_E_PROFIBUS_FSPMS_SET_INPUT_NOT_PENDING Setting the Slave Input Data cannot be performed, because input update is not pending.
0xC0090017	TLR_E_PROFIBUS_FSPMS_CHECK_USER_PRM_INVALID_MASTER_ADDRESS The confirmation of the Slave Parameter Data is obsolete, because meanwhile another master has parameterized the slave.
0xC0090018	TLR_E_PROFIBUS_FSPMS_CHECK_CFG_INVALID_MASTER_ADDRESS The confirmation of the Slave Configuration Data is obsolete, because meanwhile another master has configured the slave.
0xC0090019	TLR_E_PROFIBUS_FSPMS_APPLICATION_READY_IGNORED The Application ready command is ignored in the current state of the slave state machine.
0xC009001A	TLR_E_PROFIBUS_FSPMS_CHECK_EXT_USER_PRM_INVALID_MASTER_ADDRESS The confirmation of the extended Slave Parameter Data is obsolete, because meanwhile another master has parameterized the slave.
0xC009001B	TLR_E_PROFIBUS_FSPMS_GET_OUTPUT_DATA_EXCHANGE_NO_CYCLE Getting the Slave Output Data cannot be performed, because slave state machine is in state "DATA-EXCH" but no output cycle has been driven yet.
0xC009001C	TLR_E_PROFIBUS_FSPMS_APPLICATION_ALREADY_READY The Application ready command is ignored, because the application has already signaled its readiness.
0xC009001D	TLR_E_PROFIBUS_FSPMS_SLAVE_DIAG_PENDING A new Slave Diagnostic command can not be accepted, while a previous one is pending.
0xC009001E	TLR_E_PROFIBUS_FSPMS_READ_RESPONSE_NEG The read command cannot be a new Slave Diagnostic command can not be accepted, while a previous one is pending.
0xC009001F	TLR_E_PROFIBUS_FSPMS_MS1_INIT_WRONG_STATE The acyclic slave state machine cannot be initialized, state machine is not in "POWER-ON" state.
0xC0090020	TLR_E_PROFIBUS_FSPMS_ALARM_HANDLER_NOT_STARTED The Alarm Handler state machine isn't started yet, an Alarm cannot be notified.
0xC0090022	TLR_E_PROFIBUS_FSPMS_ALARM_HANDLER_NOT_ENABLED The requested Type of Alarm is not enabled, this Alarm cannot be notified.
0xC0090023	TLR_E_PROFIBUS_FSPMS_ALARM_HANDLER_LIMIT_EXPIRED The limit of parallel running alarms is expired, this Alarm cannot be notified.

Hexadecimal Value	Definition Description
0xC0090024	TLR_E_PROFIBUS_FSPMS_ALARM_HANDLER_PENDING This requested Type of Alarm is still pending and in operation, this is why the Alarm cannot be notified.
0x80090025	TLR_W_PROFIBUS_FSPMS_NOTREADY_EXPIRED Application is at not ready state.
0xC0090026	TLR_E_PROFIBUS_FSPMS_WATCHDOG_EXPIRED Watchdog error expired.

Table 66: Error Messages of the FSPMS-Task - PROFIBUS-DP Slave Protocol API 10

24.1.1 Diagnostic Codes of the FSPMS-Task

Hexadecimal Value	Definition Description
0xC0090004	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_INIT_PACKET Getting a packet from the pool to initialize the Data Link Layer failed, bus parameter can not be configured.
0xC0090005	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_BUS_PARAMETER_REJECTED The specified bus parameter are rejected by the Data Link Layer.
0xC0090006	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_RSAP_PACKET Getting a packet from the pool to initialize the SAPs failed, Data Link Layer cannot be configured.
0xC0090007	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_RSAP_ACTIVATION_DENIED The activation of a RSAP in the DMPMS state machine denied by the Data Link Layer.
0xC0090008	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_SAP_ACTIVATION_DENIED The activation of a SAP in the DMPMS state machine denied by the Data Link Layer.
0xC0090009	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_SAPDEACTIVATE_PACKET Getting a packet from the pool to deactivate the SAPs failed, Data Link Layer cannot be configured.
0xC009000A	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_SAP_DEACTIVATION_DENIED The deactivation of a SAP in the DMPMS state machine denied by the Data Link Layer.
0xC009000B	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_START_PACKET Getting a packet from the pool to start the Data Link Layer failed, Data Link Layer cannot be started.
0xC009000C	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_DATAEXCHANGE_PACKET Getting a packet from the pool to update the slaves data exchange buffer data failed, no Data Exchange update can be driven.
0xC009000D	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_DIAG_PACKET Getting a packet from the pool to update the slaves diagnostic data failed, no slave diag update can be driven.
0xC009000E	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_CFG_PACKET Getting a packet from the pool to update the slaves configuration data failed, no slave configuration update can be driven.
0xC009000F	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_RDINPUT_PACKET Getting a packet from the pool to update the slaves input data failed, no slave input update can be driven.
0xC0090010	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_SETVALUE_FAILED_PACKET Setting a specific Data Link value failed, value has not been set.
0xC0090011	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_REPLY_UPDATE_FAILED_PACKET Updating a specific reply buffer failed, buffer has not been updated.

Hexadecimal Value	Definition Description
0xC0090012	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_PRM_IND_PACKET Getting a packet from the pool to send the received Slave Parameter Data to the application failed, service cannot be performed.
0xC0090013	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_CFG_IND_PACKET Getting a packet from the pool to send the received Slave Configuration Data to the application failed, service cannot be performed.
0xC0090014	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_SLAVE_ADD_CHG_IND_PACKET Getting a packet from the pool to send the received Slave Set Slave Address command to the application failed, service cannot be performed.
0xC0090015	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_MINTSDR_PACKET Getting a packet from the pool to configure the minTSDR-Timer failed, service cannot be performed.
0xC0090016	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_NEW_OUTP_IND_PACKET Getting a packet from the pool to send the new output indication to the application failed, service cannot be performed.
0xC0090017	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_GLOBAL_CONTROL_IND_PACKET Getting a packet from the pool to send the global control indication to the application failed, service cannot be performed.
0xC0090018	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_SAP_PACKET Getting a packet from the pool to initialize the Global Control SAP failed, Data Link Layer cannot be configured.
0xC0090019	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_ALARM_RES_UNEXPECTED An Alarm response has been received while the acyclic State Machine is in "POWER-ON" state and has not been initialized yet.
0xC009001A	TLR_DIAG_E_PROFIBUS_FSPMS_FSPMS_NO_STARTED_IND_PACKET Getting a packet from the pool to send the start indication of the acyclic state machine to the application failed, service cannot be performed.
0xC009001B	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_NO_RSAP_PACKET Getting a packet from the pool to activate the server SAP of the acyclic state machine failed, service cannot be performed.
0xC009001C	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_RSAP_ACTIVATION_DENIED The activation of a RSAP in the MSAC1S state machine denied by the Data Link Layer.
0xC009001D	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_LSDUZERO_NORESPONSE A DP-master network frame has been received in the MSAC1S state machine that has a zero length and no response was available.
0xC009001E	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_REPLY_UPDATE_CONFIRMATION A conflict has been detected within the acyclic MSAC1S state machine. In state "OPEN" a reply update confirmation has been received.
0xC009001F	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_ALREADY_STARTED A conflict has been detected within the acyclic MSAC1S state machine. In state "OPEN" a new request to start has been received.
0xC0090020	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_NO_REPLYUPDATE_PACKET Getting a packet from the pool to update a response buffer failed, service cannot be performed.
0xC0090021	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_REPLY_UPDATE_ERROR Updating a response buffer within the Data Link Layer entity failed. Service has been rejected.
0xC0090022	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_STATE_CONFLICT_VS_WRES A conflict has been detected within the acyclic MSAC1S state machine. In state "VS-WRES" an unexpected reply update confirmation has been received.

Hexadecimal Value	Definition Description
0xC0090023	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_STATE_CONFLICT_VS_SRES A conflict has been detected within the acyclic MSAC1S state machine. In state "VS-SRES" an unexpected reply update confirmation has been received.
0xC0090024	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_STATE_CONFLICT_VS_SRES_IND A conflict has been detected within the acyclic MSAC1S state machine. In state "VS-SRES" an unexpected reply indication has been received.
0xC0090025	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_STATE_CONFLICT_AA_SRES A conflict has been detected within the acyclic MSAC1S state machine. In state "AA-SRES" an erroneous reply update confirmation has been received.
0xC0090026	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_SAP_DEACTIVATION_FAILED A conflict has been detected within the acyclic MSAC1S state machine. A deactivation of an Service Access Point failed.
0xC0090027	TLR_DIAG_E_PROFIBUS_FSPMS_FSPMS_NO_ALARM_ACK_IND_PACKET Getting a packet from the pool to send an Alarm Acknowledgement indication within the acyclic state machine to the application failed, service cannot be performed.
0xC0090028	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_SET_SLAVE_DIAG_FAILED A conflict has been detected within the acyclic MSAC1S state machine. Requesting a Slave diagnostic failed.
0xC0090029	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_DL_ADD_PACKET Getting a packet from the pool to configure the new DL Address failed, service cannot be performed.
0xC009002A	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_RETURN_PACKET_FAILED Returning a packet back to the origin failed, service cannot be performed.
0xC009002B	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_RETURN_PACKET_FAILED Returning a packet back to the origin failed, service cannot be performed.
0xC009002C	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_SEND_PACKET_FAILED Sending a packet failed, service cannot be performed.
0xC009002D	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_SEND_PACKET_FAILED Sending a packet failed, service cannot be performed.
0xC009002E	TLR_DIAG_E_PROFIBUS_FSPMS_CONNECTION_TIMEOUT Timeout of the current connection.

Table 67: Diagnostic Messages of the FSPMM-Task - PROFIBUS-DP Slave Protocol API 10

24.2 Error Codes of the DL-Task

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC0060001	TLR_E_PROFIBUS_DL_COMMAND_INVALID Invalid command received.
0xC0060040	TLR_E_PROFIBUS_DL_XC_INVALID The assigned XC-Data Link Layer is not installed or has a pending error.
0xC0060041	TLR_E_PROFIBUS_DL_BAUDRATE_INVALID The specified baudrate option is not supported and is out of range.
0xC0060042	TLR_E_PROFIBUS_DL_GAP_UPDATE_INVALID The specified GAP update factor option is not supported and is out of range 1-100.
0xC0060043	TLR_E_PROFIBUS_DL_DL_ADDR_INVALID The specified local Profibus address option is not supported and is out of range 0-125.
0xC0060044	TLR_E_PROFIBUS_DL_RETRY_LIMIT The specified retry limit option is not supported and is zero.
0xC0060045	TLR_E_PROFIBUS_DL_HSA_INVALID The specified highest station address option is not supported and is out of range 0-126.
0xC0060046	TLR_E_PROFIBUS_DL_NO_BUS_PARAMETER_SET The service can not be executed, there are no bus parameter specified yet.
0xC0060047	TLR_E_PROFIBUS_DL_DLE_NOT_RESPONDING The service has detected a timeout at the connected XC-Data Link Layer entity.
0xC0060048	TLR_E_PROFIBUS_DL_NO_DL_RESOURCE There are no further resource blocks available to execute the service within the connected XC-Data Link Layer entity.
0xC0060049	TLR_E_PROFIBUS_DL_FATAL_DL_RESOURCE There are no further resource blocks available to execute the service within the connected XC-Data Link Layer entity.
0xC0060052	TLR_E_PROFIBUS_DL_SLAVE_MODE Command could not be executed, DL-task is running at slave mode.
0xC0060080	TLR_E_PROFIBUS_DL_ACK_UE The remote station the service has been sent to indicates a User Error as service acknowledgement.
0xC0060081	TLR_E_PROFIBUS_DL_ACK_RR The remote station the service has been sent to indicates a Resource Error as service acknowledgement.
0xC0060081	TLR_E_PROFIBUS_DL_ACK_RR The remote station the service has been sent to indicates a Resource Error as service acknowledgement.
0xC0060082	TLR_E_PROFIBUS_DL_ACK_RS The remote station the service has been sent to indicates a Service Access Point Error as service acknowledgement.
0xC0060083	TLR_E_PROFIBUS_DL_ACK_NR The remote station the service has been sent to confirms its positive reception but has no data to confirm.
0xC0060084	TLR_E_PROFIBUS_DL_ACK_RDH The remote station the service has been sent to, confirms its reception negatively but has returned low priority data in the response.

Hexadecimal Value	Definition Description
0xC0060085	TLR_E_PROFIBUS_DL_ACK_RDL The remote station the service has been sent to, confirms its reception negatively but has returned high priority data in the response.
0xC0060086	TLR_E_PROFIBUS_DL_ACK_DH The remote station the service has been sent to, confirms its reception positively and has returned low priority data in the response.
0xC0060087	TLR_E_PROFIBUS_DL_ACK_DL The remote station the service has been sent to, confirms its reception positively and has returned high priority data in the response.
0xC0060088	TLR_E_PROFIBUS_DL_ACK_NA The remote station the service has been sent to shows no or no plausible reaction at all.
0xC0060089	TLR_E_PROFIBUS_DL_ACK_UNKNOWN The remote station the service has been sent has returned an unknown acknowledgement code.
0xC006008A	TLR_E_PROFIBUS_DL_ACK_LS The requested service is not activated within the local SAP configuration.
0xC006008B	TLR_E_PROFIBUS_DL_ACK_LR The local resources needed to execute the requested service are not available or not sufficient.
0xC006008C	TLR_E_PROFIBUS_DL_ACK_DS The local data link layer is not in the logical token ring or disconnected from the network.
0xC006008D	TLR_E_PROFIBUS_DL_ACK_IV Invalid parameter detected in the requested service.
0xC006008E	TLR_E_PROFIBUS_DL_ACK_NO The local SAP is not activated because it has been activated already or resources are not sufficient.
0xC006008F	TLR_E_PROFIBUS_DL_ACK_NO_SET The variable to be set does not exist.
0xC0060090	TLR_E_PROFIBUS_DL_ACK_RE Format error of the telegram.
0xC0060091	TLR_E_PROFIBUS_DL_TSET_INVALID The specified parameter TSET is out of range 1-255.

Table 68: Error Messages of the DL-Task - PROFIBUS-DP Slave Protocol API 10

24.2.1 Diagnostic Codes of the DL-Task

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC0060001	TLR_DIAG_E_PROFIBUS_DL_DATA_ACK_RES Invalid "Data Ack (SDA)" response packet received. Response does not match to internally reserved communication block
0xC0060002	TLR_DIAG_E_PROFIBUS_DL_DATA_RES Invalid "Data (SDN)" response packet received. Response does not match to internally reserved communication block
0xC0060003	TLR_DIAG_E_PROFIBUS_DL_DATA_REPLY_RES Invalid "Data Reply (SRD)" response packet received. Response does not match to internally reserved communication block

Table 69: Diagnostic Codes of the DL-Task - PROFIBUS-DP Slave Protocol API 10

24.3 Error Codes of the APS-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC01D0002	TLR_E_PROFIBUS_APS_ALREADY_CONFIGURED Device is already configured. The new configuration is discarded.
0xC01D0003	TLR_E_PROFIBUS_APS_NO_CONFIG_DBM No database available.
0xC01D0004L	TLR_E_PROFIBUS_APS_CONFIG_DBM_INVALID Database is invalid.
0xC01D0005L	TLR_E_PROFIBUS_APS_CONFIG_MODULE_LENGTH Module configuration consists invalid length.

Table 70: Error Messages of the APS-Task - PROFIBUS-DP Slave Protocol API 10

24.3.1 Diagnostic Codes of the APS-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC01D0001	TLR_DIAG_E_PROFIBUS_APS_NO_MS0_PACKET Getting a packet from the pool to initialize the Slave's cyclic state machine failed.
0xC01D0002	TLR_DIAG_E_PROFIBUS_APS_NO_MS1_PACKET Getting a packet from the pool to initialize the Slave acyclic Master Class 1 state machine failed.
0xC01D0003	TLR_DIAG_E_PROFIBUS_APS_NO_MS2_PACKET Getting a packet from the pool to initialize the Slave acyclic Master Class 2 state machine failed.
0xC01D0004	TLR_DIAG_E_PROFIBUS_APS_NO_SLAVE_DIAG_PACKET Getting a packet from the pool to send a Slave Diagnostic request failed.
0xC01D0005	TLR_DIAG_E_PROFIBUS_APS_NO_SET_CFG_PACKET Getting a packet from the pool to set the new configuration data failed.
0xC01D0006	TLR_DIAG_E_PROFIBUS_APS_NO_CHECK_USER_PRM_RESULT_PACKET Getting a packet from the pool to send back the user parameter checking result failed.
0xC01D0007	TLR_DIAG_E_PROFIBUS_APS_NO_CHECK_EXT_USER_PRM_RESULT_PACKET Getting a packet from the pool to send back the extended user parameter checking result failed.
0xC01D0008	TLR_DIAG_E_PROFIBUS_APS_NO_CHECK_CFG_RESULT_PACKET Getting a packet from the pool to send back the configuration data checking result failed.
0xC01D0009	TLR_DIAG_E_PROFIBUS_APS_NO_GET_OUTPUT_PACKET Getting a packet from the pool to send the request for getting the latest outputs failed.
0xC01D000A	TLR_DIAG_E_PROFIBUS_APS_NO_APPLICATION_READY_PACKET Getting a packet from the pool to send the application ready request failed.
0xC01D000B	TLR_DIAG_E_PROFIBUS_APS_NO_ABORT_PACKET Getting a packet from the pool to send the application ready request failed.

Table 71: Diagnostic Messages of the APS-Task - PROFIBUS-DP Slave Protocol API 10

25 PROFIBUS-DP Slave - industrialNETworX Image API

25.1 Error Codes of the FSPMS-Task

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC0000001	TLR_E_FAIL Common error, detailed error information optionally present in the data area of packet
0xC0090001	TLR_E_PROFIBUS_FSPMS_COMMAND_INVALID Invalid command received.
0xC0090002	TLR_E_PROFIBUS_FSPMS_MAX_EXT_DIAG_SIZE_EXCEEDED Setting the slave diagnostic failed, because the limit of the maximum number of 238 extended diagnostic bytes is exceeded.
0xC0090003	TLR_E_PROFIBUS_FSPMS_MAX_CFG_DATA_SIZE_EXCEEDED Setting the slave's configuration data failed, because the limit of the maximum number of 244 configuration bytes is exceeded.
0xC0090004	TLR_E_PROFIBUS_FSPMS_MS0_INIT_WRONG_STATE The cyclic slave state machine cannot be initialized, state machine is not in "POWER-ON" state.
0xC0090005	TLR_E_PROFIBUS_FSPMS_SLAVE_DIAG_POWER_ON Setting the Slave Diagnostic Data cannot be performed, because slave state machine isn't initialized yet.
0xC0090006	TLR_E_PROFIBUS_FSPMS_SET_CFG_POWER_ON Setting the Slave Configuration Data cannot be performed, because slave state machine isn't initialized yet.
0xC0090007	TLR_E_PROFIBUS_FSPMS_GET_OUTPUT_POWER_ON Getting the Slave Output Data cannot be performed, because slave state machine isn't initialized yet.
0xC0090008	TLR_E_PROFIBUS_FSPMS_GET_OUTPUT_WAIT_PRM Getting the Slave Output Data cannot be performed, because slave state is currently in state "WAIT-PRM".
0xC0090009	TLR_E_PROFIBUS_FSPMS_SET_INPUT_POWER_ON Setting the Slave Input Data cannot be performed, because slave state machine isn't initialized yet.
0xC009000A	TLR_E_PROFIBUS_FSPMS_SET_INPUT_WAIT_PRM Setting the Slave Input Data cannot be performed, because slave state is currently in state "WAIT-PRM".
0xC009000B	TLR_E_PROFIBUS_FSPMS_CHECK_USER_PRM_POWER_ON Confirming the Slave Parameter Data cannot be performed, because slave state machine isn't initialized yet.
0xC009000C	TLR_E_PROFIBUS_FSPMS_CHECK_USER_PRM_NOT_PENDING There is no Parameter Data checking command pending, command ignored.
0xC009000D	TLR_E_PROFIBUS_FSPMS_CHECK_USER_PRM_NEW_PARAMETER The confirmation of the Slave Parameter Data is obsolete, there is new Slave Parameter Data available.
0xC009000E	TLR_E_PROFIBUS_FSPMS_CHECK_CFG_POWER_ON Confirming the Slave Configuration Data cannot be performed, because slave state machine isn't initialized yet.
0xC009000F	TLR_E_PROFIBUS_FSPMS_CHECK_CFG_NOT_PENDING There is no Configuration Data checking command pending, command ignored.
0xC0090010	TLR_E_PROFIBUS_FSPMS_CHECK_CFG_NEW_CONFIGURATION

Hexadecimal Value	Definition Description
	The confirmation of the Slave Configuration Data is obsolete, there is new Slave Configuration Data available.
0xC0090011	TLR_E_PROFIBUS_FSPMS_CHECK_EXT_USER_PRM_POWER_ON Confirming the extended Slave Parameter Data cannot be performed, because slave state machine isn't initialized yet.
0xC0090012	TLR_E_PROFIBUS_FSPMS_CHECK_EXT_USER_PRM_NOT_PENDING There is no extended Parameter Data checking command pending, command ignored.
0xC0090013	TLR_E_PROFIBUS_FSPMS_CHECK_EXT_USER_PRM_NEW_PARAMETER The confirmation of the extended Slave Parameter Data is obsolete, there is new extended Slave Parameter Data available.
0xC0090014	TLR_E_PROFIBUS_FSPMS_ABORT_IGNORED The abort command is ignored in the current state of the slave state machine.
0xC0090015	TLR_E_PROFIBUS_FSPMS_GET_OUTPUT_WAIT_CFG Getting the Slave Output Data cannot be performed, because slave state is currently in state "WAIT-CFG".
0xC0090016	TLR_E_PROFIBUS_FSPMS_SET_INPUT_NOT_PENDING Setting the Slave Input Data cannot be performed, because input update is not pending.
0xC0090017	TLR_E_PROFIBUS_FSPMS_CHECK_USER_PRM_INVALID_MASTER_ADDRESS The confirmation of the Slave Parameter Data is obsolete, because meanwhile another master has parameterized the slave.
0xC0090018	TLR_E_PROFIBUS_FSPMS_CHECK_CFG_INVALID_MASTER_ADDRESS The confirmation of the Slave Configuration Data is obsolete, because meanwhile another master has configured the slave.
0xC0090019	TLR_E_PROFIBUS_FSPMS_APPLICATION_READY_IGNORED The Application ready command is ignored in the current state of the slave state machine.
0xC009001A	TLR_E_PROFIBUS_FSPMS_CHECK_EXT_USER_PRM_INVALID_MASTER_ADDRESSES The confirmation of the extended Slave Parameter Data is obsolete, because meanwhile an other master has parameterized the slave.
0xC009001B	TLR_E_PROFIBUS_FSPMS_GET_OUTPUT_DATA_EXCHANGE_NO_CYCLE Getting the Slave Output Data cannot be performed, because slave state machine is in state "DATA-EXCH" but no output cycle has been driven yet.
0xC009001C	TLR_E_PROFIBUS_FSPMS_APPLICATION_ALREADY_READY The Application ready command is ignored, because the application has already signaled its readiness.
0xC009001D	TLR_E_PROFIBUS_FSPMS_SLAVE_DIAG_PENDING A new Slave Diagnostic command can not be accepted, while a previous one is pending.
0xC009001E	TLR_E_PROFIBUS_FSPMS_READ_RESPONSE_NEG The read command cannot be a new Slave Diagnostic command can not be accepted, while a previous one is pending.
0xC009001F	TLR_E_PROFIBUS_FSPMS_MS1_INIT_WRONG_STATE The acyclic slave state machine cannot be initialized, state machine is not in "POWER-ON" state.
0xC0090020	TLR_E_PROFIBUS_FSPMS_ALARM_HANDLER_NOT_STARTED The Alarm Handler state machine isn't started yet, an Alarm cannot be notified.
0xC0090022	TLR_E_PROFIBUS_FSPMS_ALARM_HANDLER_NOT_ENABLED The requested Type of Alarm is not enabled, this Alarm cannot be notified.
0xC0090023	TLR_E_PROFIBUS_FSPMS_ALARM_HANDLER_LIMIT_EXPIRED The limit of parallel running alarms is expired, this Alarm cannot be notified.

Hexadecimal Value	Definition Description
0xC0090024	TLR_E_PROFIBUS_FSPMS_ALARM_HANDLER_PENDING This requested Type of Alarm is still pending and in operation, this is why the Alarm cannot be notified.
0x80090025	TLR_W_PROFIBUS_FSPMS_NOTREADY_EXPIRED Application is at not ready state.
0xC0090026	TLR_E_PROFIBUS_FSPMS_WATCHDOG_EXPIRED Watchdog error expired.

Table 72: Error Messages of the FSPMS-Task - PROFIBUS-DP Slave - industrialNETworX Image API 10

25.1.1 Diagnostic Codes of the FSPMS-Task

Hexadecimal Value	Definition Description
0xC0090004	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_INIT_PACKET Getting a packet from the pool to initialize the Data Link Layer failed, bus parameter can not be configured.
0xC0090005	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_BUS_PARAMETER_REJECTED The specified bus parameter are rejected by the Data Link Layer.
0xC0090006	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_RSAP_PACKET Getting a packet from the pool to initialize the SAPs failed, Data Link Layer cannot be configured.
0xC0090007	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_RSAP_ACTIVATION_DENIED The activation of a RSAP in the DMPMS state machine denied by the Data Link Layer.
0xC0090008	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_SAP_ACTIVATION_DENIED The activation of a SAP in the DMPMS state machine denied by the Data Link Layer.
0xC0090009	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_SAPDEACTIVATE_PACKET Getting a packet from the pool to deactivate the SAPs failed, Data Link Layer cannot be configured.
0xC009000A	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_SAP_DEACTIVATION_DENIED The deactivation of a SAP in the DMPMS state machine denied by the Data Link Layer.
0xC009000B	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_START_PACKET Getting a packet from the pool to start the Data Link Layer failed, Data Link Layer cannot be started.
0xC009000C	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_DATAEXCHANGE_PACKET Getting a packet from the pool to update the slaves data exchange buffer data failed, no Data Exchange update can be driven.
0xC009000D	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_DIAG_PACKET Getting a packet from the pool to update the slaves diagnostic data failed, no slave diag update can be driven.
0xC009000E	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_CFG_PACKET Getting a packet from the pool to update the slaves configuration data failed, no slave configuration update can be driven.
0xC009000F	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_RDINPUT_PACKET Getting a packet from the pool to update the slaves input data failed, no slave input update can be driven.
0xC0090010	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_SETVALUE_FAILED_PACKET Setting a specific Data Link value failed, value has not been set.
0xC0090011	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_REPLY_UPDATE_FAILED_PACKET Updating a specific reply buffer failed, buffer has not been updated.

Hexadecimal Value	Definition Description
0xC0090012	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_PRM_IND_PACKET Getting a packet from the pool to send the received Slave Parameter Data to the application failed, service cannot be performed.
0xC0090013	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_CFG_IND_PACKET Getting a packet from the pool to send the received Slave Configuration Data to the application failed, service cannot be performed.
0xC0090014	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_SLAVE_ADD_CHG_IND_PACKET Getting a packet from the pool to send the received Slave Set Slave Address command to the application failed, service cannot be performed.
0xC0090015	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_MINTSDR_PACKET Getting a packet from the pool to configure the minTSDR-Timer failed, service cannot be performed.
0xC0090016	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_NEW_OUTP_IND_PACKET Getting a packet from the pool to send the new output indication to the application failed, service cannot be performed.
0xC0090017	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_GLOBAL_CONTROL_IND_PACKET Getting a packet from the pool to send the global control indication to the application failed, service cannot be performed.
0xC0090018	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_NO_SAP_PACKET Getting a packet from the pool to initialize the Global Control SAP failed, Data Link Layer cannot be configured.
0xC0090019	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_ALARM_RES_UNEXPECTED An Alarm response has been received while the acyclic State Machine is in "POWER-ON" state and has not been initialized yet.
0xC009001A	TLR_DIAG_E_PROFIBUS_FSPMS_FSPMS_NO_STARTED_IND_PACKET Getting a packet from the pool to send the start indication of the acyclic state machine to the application failed, service cannot be performed.
0xC009001B	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_NO_RSAP_PACKET Getting a packet from the pool to activate the server SAP of the acyclic state machine failed, service cannot be performed.
0xC009001C	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_RSAP_ACTIVATION_DENIED The activation of a RSAP in the MSAC1S state machine denied by the Data Link Layer.
0xC009001D	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_LSDUZERO_NORESPONSE A DP-master network frame has been received in the MSAC1S state machine that has a zero length and no response was available.
0xC009001E	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_REPLY_UPDATE_CONFIRMATION A conflict has been detected within the acyclic MSAC1S state machine. In state "OPEN" a reply update confirmation has been received.
0xC009001F	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_ALREADY_STARTED A conflict has been detected within the acyclic MSAC1S state machine. In state "OPEN" a new request to start has been received.
0xC0090020	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_NO_REPLYUPDATE_PACKET Getting a packet from the pool to update a response buffer failed, service cannot be performed.
0xC0090021	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_REPLY_UPDATE_ERROR Updating a response buffer within the Data Link Layer entity failed. Service has been rejected.
0xC0090022	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_STATE_CONFLICT_VS_WRES

Hexadecimal Value	Definition Description
	A conflict has been detected within the acyclic MSAC1S state machine. In state "VS-WRES" an unexpected reply update confirmation has been received.
0xC0090023	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_STATE_CONFLICT_VS_SRES A conflict has been detected within the acyclic MSAC1S state machine. In state "VS-SRES" an unexpected reply update confirmation has been received.
0xC0090024	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_STATE_CONFLICT_VS_SRES_IND A conflict has been detected within the acyclic MSAC1S state machine. In state "VS-SRES" an unexpected reply indication has been received.
0xC0090025	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_STATE_CONFLICT_AA_SRES A conflict has been detected within the acyclic MSAC1S state machine. In state "AA-SRES" an erroneous reply update confirmation has been received.
0xC0090026	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_SAP_DEACTIVATION_FAILED A conflict has been detected within the acyclic MSAC1S state machine. A deactivation of an Service Access Point failed.
0xC0090027	TLR_DIAG_E_PROFIBUS_FSPMS_FSPMS_NO_ALARM_ACK_IND_PACKET Getting a packet from the pool to send an Alarm Acknowledgement indication within the acyclic state machine to the application failed, service cannot be performed.
0xC0090028	TLR_DIAG_E_PROFIBUS_FSPMS_MSAC1S_SET_SLAVE_DIAG_FAILED A conflict has been detected within the acyclic MSAC1S state machine. Requesting a Slave diagnostic failed.
0xC0090029	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_NO_DL_ADD_PACKET Getting a packet from the pool to configure the new DL Address failed, service cannot be performed.
0xC009002A	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_RETURN_PACKET_FAILED Returning a packet back to the origin failed, service cannot be performed.
0xC009002B	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_RETURN_PACKET_FAILED Returning a packet back to the origin failed, service cannot be performed.
0xC009002C	TLR_DIAG_E_PROFIBUS_FSPMS_MSCY1S_SEND_PACKET_FAILED Sending a packet failed, service cannot be performed.
0xC009002D	TLR_DIAG_E_PROFIBUS_FSPMS_DMPMS_SEND_PACKET_FAILED Sending a packet failed, service cannot be performed.
0xC009002E	TLR_DIAG_E_PROFIBUS_FSPMS_CONNECTION_TIMEOUT Timeout of the current connection.

Table 73: Diagnostic Codes of the FSPMS-Taskk - PROFIBUS-DP Slave - industrialNETworX Image API 10

25.2 Error Codes of the DL-Task

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC0060001	TLR_E_PROFIBUS_DL_COMMAND_INVALID Invalid command received.
0xC0060040	TLR_E_PROFIBUS_DL_XC_INVALID The assigned XC-Data Link Layer is not installed or has a pending error.
0xC0060041	TLR_E_PROFIBUS_DL_BAUDRATE_INVALID The specified baudrate option is not supported and is out of range.
0xC0060042	TLR_E_PROFIBUS_DL_GAP_UPDATE_INVALID The specified GAP update factor option is not supported and is out of range 1-100.
0xC0060043	TLR_E_PROFIBUS_DL_DL_ADDR_INVALID The specified local Profibus address option is not supported and is out of range 0-125.
0xC0060044	TLR_E_PROFIBUS_DL_RETRY_LIMIT The specified retry limit option is not supported and is zero.
0xC0060045	TLR_E_PROFIBUS_DL_HSA_INVALID The specified highest station address option is not supported and is out of range 0-126.
0xC0060046	TLR_E_PROFIBUS_DL_NO_BUS_PARAMETER_SET The service can not be executed, there are no bus parameter specified yet.
0xC0060047	TLR_E_PROFIBUS_DL_DLE_NOT_RESPONDING The service has detected a timeout at the connected XC-Data Link Layer entity.
0xC0060048	TLR_E_PROFIBUS_DL_NO_DL_RESOURCE There are no further resource blocks available to execute the service within the connected XC-Data Link Layer entity.
0xC0060049	TLR_E_PROFIBUS_DL_FATAL_DL_RESOURCE There are no further resource blocks available to execute the service within the connected XC-Data Link Layer entity.
0xC0060052	TLR_E_PROFIBUS_DL_SLAVE_MODE Command could not be executed, DL-task is running at slave mode.
0xC0060080	TLR_E_PROFIBUS_DL_ACK_UE The remote station the service has been sent to indicates a User Error as service acknowledgement.
0xC0060081	TLR_E_PROFIBUS_DL_ACK_RR The remote station the service has been sent to indicates a Resource Error as service acknowledgement.
0xC0060081	TLR_E_PROFIBUS_DL_ACK_RR The remote station the service has been sent to indicates a Resource Error as service acknowledgement.
0xC0060082	TLR_E_PROFIBUS_DL_ACK_RS The remote station the service has been sent to indicates a Service Access Point Error as service acknowledgement.
0xC0060083	TLR_E_PROFIBUS_DL_ACK_NR The remote station the service has been sent to confirms its positive reception but has no data to confirm.
0xC0060084	TLR_E_PROFIBUS_DL_ACK_RDH The remote station the service has been sent to, confirms its reception negatively but has returned low priority data in the response.

Hexadecimal Value	Definition Description
0xC0060085	TLR_E_PROFIBUS_DL_ACK_RDL The remote station the service has been sent to, confirms its reception negatively but has returned high priority data in the response.
0xC0060086	TLR_E_PROFIBUS_DL_ACK_DH The remote station the service has been sent to, confirms its reception positively and has returned low priority data in the response.
0xC0060087	TLR_E_PROFIBUS_DL_ACK_DL The remote station the service has been sent to, confirms its reception positively and has returned high priority data in the response.
0xC0060088	TLR_E_PROFIBUS_DL_ACK_NA The remote station the service has been sent to shows no or no plausible reaction at all.
0xC0060089	TLR_E_PROFIBUS_DL_ACK_UNKNOWN The remote station the service has been sent has returned an unknown acknowledgement code.
0xC006008A	TLR_E_PROFIBUS_DL_ACK_LS The requested service is not activated within the local SAP configuration.
0xC006008B	TLR_E_PROFIBUS_DL_ACK_LR The local resources needed to execute the requested service are not available or not sufficient.
0xC006008C	TLR_E_PROFIBUS_DL_ACK_DS The local data link layer is not in the logical token ring or disconnected from the network.
0xC006008D	TLR_E_PROFIBUS_DL_ACK_IV Invalid parameter detected in the requested service.
0xC006008E	TLR_E_PROFIBUS_DL_ACK_NO The local SAP is not activated because it has been activated already or resources are not sufficient.
0xC006008F	TLR_E_PROFIBUS_DL_ACK_NO_SET The variable to be set does not exist.
0xC0060090	TLR_E_PROFIBUS_DL_ACK_RE Format error of the telegram.
0xC0060091	TLR_E_PROFIBUS_DL_TSET_INVALID The specified parameter TSET is out of range 1-255.

Table 74: Error Messages of the DL-Task - PROFIBUS-DP Slave - industrialNETworX Image API 10

25.2.1 Diagnostic Codes of the DL-Task

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC0060001	TLR_DIAG_E_PROFIBUS_DL_DATA_ACK_RES Invalid "Data Ack (SDA)" response packet received. Response does not match to internally reserved communication block
0xC0060002	TLR_DIAG_E_PROFIBUS_DL_DATA_RES Invalid "Data (SDN)" response packet received. Response does not match to internally reserved communication block
0xC0060003	TLR_DIAG_E_PROFIBUS_DL_DATA_REPLY_RES Invalid "Data Reply (SRD)" response packet received. Response does not match to internally reserved communication block

Table 75: Diagnostic Messages of the DL-Task - PROFIBUS-DP Slave - industrialNETworX Image API 10

25.3 Error Codes of the APS-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC01D0002	TLR_E_PROFIBUS_APS_ALREADY_CONFIGURED Device is already configured. The new configuration is discarded.

Table 76: Error Messages of the APS-Task - PROFIBUS-DP Slave - industrialNETworX Image API 10

25.3.1 Diagnostic Codes of the APS-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC01D0001	TLR_DIAG_E_PROFIBUS_APS_NO_MS0_PACKET Getting a packet from the pool to initialize the Slave's cyclic state machine failed.
0xC01D0002	TLR_DIAG_E_PROFIBUS_APS_NO_MS1_PACKET Getting a packet from the pool to initialize the Slave acyclic Master Class 1 state machine failed.
0xC01D0003	TLR_DIAG_E_PROFIBUS_APS_NO_MS2_PACKET Getting a packet from the pool to initialize the Slave acyclic Master Class 2 state machine failed.
0xC01D0004	TLR_DIAG_E_PROFIBUS_APS_NO_SLAVE_DIAG_PACKET Getting a packet from the pool to send a Slave Diagnostic request failed.
0xC01D0005	TLR_DIAG_E_PROFIBUS_APS_NO_SET_CFG_PACKET Getting a packet from the pool to set the new configuration data failed.
0xC01D0006	TLR_DIAG_E_PROFIBUS_APS_NO_CHECK_USER_PRM_RESULT_PACKET Getting a packet from the pool to send back the user parameter checking result failed.
0xC01D0007	TLR_DIAG_E_PROFIBUS_APS_NO_CHECK_EXT_USER_PRM_RESULT_PACKET Getting a packet from the pool to send back the extended user parameter checking result failed.
0xC01D0008	TLR_DIAG_E_PROFIBUS_APS_NO_CHECK_CFG_RESULT_PACKET Getting a packet from the pool to send back the configuration data checking result failed.
0xC01D0009	TLR_DIAG_E_PROFIBUS_APS_NO_GET_OUTPUT_PACKET Getting a packet from the pool to send the request for getting the latest outputs failed.
0xC01D000A	TLR_DIAG_E_PROFIBUS_APS_NO_APPLICATION_READY_PACKET Getting a packet from the pool to send the application ready request failed.
0xC01D000B	TLR_DIAG_E_PROFIBUS_APS_NO_ABORT_PACKET Getting a packet from the pool to send the application ready request failed.

Table 77: Diagnostic Messages of the APS-Task - PROFIBUS-DP Slave - industrialNETworX Image API 10

26 Profibus MPI Protocol API

26.1 PROFIBUS MPI-Error Codes

Definition / (Value)	Description
TLR_E_PROFIBUS_DATA_CNT (0xC0670005L)	Data Counter Error.
TLR_E_PROFIBUS_MPI_CON_TO (0xC0670130L)	Time out.
TLR_E_PROFIBUS_MPI_CON_SE (0xC0670139L)	Sequence error.
TLR_E_PROFIBUS_MPI_ILLEGAL_STATION_ADDRESS (0xC0670201L)	Illegal station address
TLR_E_PROFIBUS_MPI_ILLEGAL_FUNCTION_NUMBER (0xC0670203L)	Illegal function number
TLR_E_PROFIBUS_MPI_RESET_IN_PROGRESS (0xC0670204L)	Reset in progress.
TLR_E_PROFIBUS_MPI_TOO_MANY_REQ_IN_PROGRESS (0xC0670205L)	Too many requests in progress.
TLR_E_PROFIBUS_MPI_DENIED_BY_WATCHDOG_TO (0xC0670206L)	No access because of Watchdog Timeout.
TLR_E_PROFIBUS_MPI_ILLEGAL_WATCHDOG_TIME (0xC0670207L)	Illegal watchdog time.
TLR_E_PROFIBUS_MPI_CON_IN_PROGRESS (0xC0670208L)	Connection to PLC in progress.
TLR_E_PROFIBUS_MPI_BUS_ALREADY_CONFIGURED (0xC0670209L)	Bus already configured.
TLR_E_PROFIBUS_MPI_REJ_SE (0xC0670281L)	Device stopped communication or is not in Open State.
TLR_E_PROFIBUS_MPI_REJ_ABORT (0xC0670282L)	Device aborts communication.
TLR_E_PROFIBUS_MPI_REJ_LE (0xC0670284L)	Length Error.
TLR_E_PROFIBUS_MPI_REJ_IV (0xC0670285L)	Specified offset out of limits or not known to remote station.
TLR_E_PROFIBUS_MPI_REJ_PDU (0xC0670286L)	Wrong PDU coding.
TLR_E_PROFIBUS_MPI_REJ_OP (0xC0670287L)	Specified Length to read or write out of limits.
TLR_E_PROFIBUS_MPI_REJ_HW (0xC0670288L)	Specified address not defined in remote station.
TLR_E_PROFIBUS_MPI_REJ_MODE (0xC0670289L)	Remote station not in right operational mode.

Table 78: MPI Error Codes - Profibus MPI Protocol API 02

26.2 Error Codes of the DL-Task

Definition / (Value)	Description
TLR_E_PROFIBUS_DL_COM_MAND_INVALID (0xC0060001L)	Invalid command received.
TLR_E_PROFIBUS_DL_XC_INVALID (0xC0060040L)	The assigned XC-Data Link Layer is not installed or has a pending error.
TLR_E_PROFIBUS_DL_BAUDRATE_INVALID (0xC0060041L)	The specified baudrate option is not supported and is out of range.
TLR_E_PROFIBUS_DL_GAP_UPDATE_INVALID (0xC0060042L)	The specified GAP update factor option is not supported and is out of range 1-100.
TLR_E_PROFIBUS_DL_DL_ADDR_INVALID (0xC0060043L)	The specified local Profibus address option is not supported and is out of range 0-125.
TLR_E_PROFIBUS_DL_RETRY_LIMIT (0xC0060044L)	The specified retry limit option is not supported and is zero.
TLR_E_PROFIBUS_DL_HSA_INVALID (0xC0060045L)	The specified highest station address option is not supported and is out of range 0-126.
TLR_E_PROFIBUS_DL_NO_BUS_PARAMETER_SET (0xC0060046L)	The service cannot be executed, there are no bus parameters specified yet.
TLR_E_PROFIBUS_DL_DLE_NOT_RESPONDING (0xC0060047L)	The service has detected a timeout at the connected XC-Data Link Layer entity.
TLR_E_PROFIBUS_DL_NO_DL_RESOURCE (0xC0060048L)	There are no further resource blocks available to execute the service within the connected XC-Data Link Layer entity.
TLR_E_PROFIBUS_DL_FATAL_DL_RESOURCE (0xC0060049L)	There are no further resource blocks available to execute the service within the connected XC-Data Link Layer entity.
TLR_E_PROFIBUS_DL_ACK_UE (0xC0060080L)	The remote station the service has been sent to indicates a User Error as service acknowledgement.
TLR_E_PROFIBUS_DL_ACK_RR (0xC0060081L)	The remote station the service has been sent to indicates a Resource Error as service acknowledgement.
TLR_E_PROFIBUS_DL_ACK_RS (0xC0060082L)	The remote station the service has been sent to indicates a Service Access Point Error as service acknowledgement.
TLR_E_PROFIBUS_DL_ACK_NR (0xC0060083L)	The remote station the service has been sent to confirms its positive reception but has no data to confirm.
TLR_E_PROFIBUS_DL_ACK_RDH (0xC0060084L)	The remote station the service has been sent to, confirms its reception negatively but has returned low priority data in the response.
TLR_E_PROFIBUS_DL_ACK_RDL	The remote station the service has been sent to, confirms its reception negatively but has returned high priority data in the

(0xC0060085L)	response.
TLR_E_PROFIBUS_DL_ACK _DH (0xC0060086L)	The remote station the service has been sent to, confirms its reception positively and has returned low priority data in the response.
TLR_E_PROFIBUS_DL_ACK _DL (0xC0060087L)	The remote station the service has been sent to, confirms its reception positively and has returned high priority data in the response.
TLR_E_PROFIBUS_DL_ACK _NA (0xC0060088L)	The remote station the service has been sent to shows no or no plausible reaction at all.
TLR_E_PROFIBUS_DL_ACK _UNKNOWN (0xC0060089L)	The remote station the service has been sent has returned an unknown acknowledgement code.
TLR_E_PROFIBUS_DL_ACK _LS (0xC006008AL)	The requested service is not activated within the local SAP configuration.
TLR_E_PROFIBUS_DL_ACK _LR (0xC006008BL)	The local resources needed to execute the requested service are not available or not sufficient.
TLR_E_PROFIBUS_DL_ACK _DS (0xC006008CL)	The local data link layer is not in the logical token ring or disconnected from the network.
TLR_E_PROFIBUS_DL_ACK _IV (0xC006008DL)	Invalid parameter detected in the requested service.
TLR_E_PROFIBUS_DL_ACK _NO (0xC006008EL)	The local SAP is not activated because it has been activated already or resources are not sufficient.
TLR_E_PROFIBUS_DL_ACK _NO_SET (0xC006008FL)	The variable to be set does not exist.
TLR_E_PROFIBUS_DL_ACK _RE (0xC0060090L)	Format error of the telegram.

Table 79: Error Messages of the DL-Task - Profibus MPI Protocol API 02

26.2.1 Diagnostic Codes of the DL-Task

Definition / (Value)	Description
TLR_DIAG_E_PROFIBUS_DL_DATA_ACK_RES (0xC0060001L)	Invalid "Data Ack (SDA)" response packet received. Response does not match to internally reserved communication block
TLR_DIAG_E_PROFIBUS_DL_DATA_RES (0xC0060002L)	Invalid "Data (SDN)" response packet received. Response does not match to internally reserved communication block
TLR_DIAG_E_PROFIBUS_DL_DATA_REPLY_RES (0xC0060003L)	Invalid "Data Reply (SRD)" response packet received. Response does not match to internally reserved communication block

Table 80: Diagnostic Messages of the DL-Task - Profibus MPI Protocol API 02

27 PROFINET IO-Controller Protocol API

27.1 Error Codes of the ACP – Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0110011	TLR_E_PNIO_ACP_PHASE_REDUCTION_RATIO Invalid reduction-ratio (uiMaxRatio) in ACP_PhaseInit().
0xC0110012	TLR_E_PNIO_ACP_PHASE_SEND_CLOCK_FACTOR Invalid sendClock-factor (uiScFact) in ACP_PhaseInit().
0xC0110013	TLR_E_PNIO_ACP_PHASE_FRAME_RESOURCES Invalid parameter (uiMaxFrame) in ACP_PhaseInit().
0xC0110014	TLR_E_PNIO_ACP_PACKET_SEND_FAILED Error sending a packet to another task in ACP task.
0xC0110015	TLR_E_PNIO_ACP_RESOURCE_OUT_OF_MEMORY Insufficient memory in ACP task.
0xC0110018	TLR_E_PNIO_ACP_EMPTY_POOL_DETECTED The packet pool of ACP is empty.

Table 81: Error Messages of the ACP-Task - PROFINET IO-Controller Protocol API 12

27.1.1 Diagnostic Codes of the ACP –Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC011F010	TLR_DIAG_E_ACP_TASK_ACP_PHASE_INIT_FAILED Failed to initialize ACP Phase.
0xC011F011	TLR_DIAG_E_ACP_TASK_ALARM_INIT_FAILED Failed to initialize Alarm-machines.
0xC011F012	TLR_DIAG_E_ACP_TASK_APMR_INIT_FAILED Failed to initialize APMR.
0xC011F013	TLR_DIAG_E_ACP_TASK_APMS_INIT_FAILED Failed to initialize APMS.
0xC011F014	TLR_DIAG_E_ACP_TASK_CPM_INIT_FAILED Failed to initialize CPM.
0xC011F015	TLR_DIAG_E_ACP_TASK_PPM_INIT_FAILED Failed to initialize PPM.
0xC011F016	TLR_DIAG_E_ACP_TASK_CREATE_QUE_FAILED Failed to create message-queue for ACP.
0xC011F017	TLR_DIAG_E_ACP_TASK_IDENT_EDD_FAILED Failed to identify Drv_EDD.
0xC011F018	TLR_DIAG_E_ACP_TASK_IDENT_EDD_QUE_FAILED Failed to get handle to EDD message-queue.
0xC011F019	TLR_DIAG_E_ACP_TASK_IDENT_DCP_QUE_FAILED Failed to get handle to DCP message-queue.
0xC011F01A	TLR_DIAG_E_ACP_TASK_IDENT_CMDEV_QUE_FAILED Failed to get handle to CMDEV message-queue.

Table 82: Diagnostic Messages of the ACP-Task - PROFINET IO-Controller Protocol API 12

27.2 Error Codes of the APCFG –Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0140002	TLR_E_PNIO_APCFG_DBM_UNKNOWN_VERSION Unknown DBM version.
0xC0140003	TLR_E_PNIO_APCFG_DBM_NO_DATASET No dataset existing.
0xC0140004	TLR_E_PNIO_APCFG_DBM_WRONG_SIZE_OF_DATASET Wrong size of DBM dataset.
0xC0140005	TLR_E_PNIO_APCFG_DBM_WRONG_LEN_TYPEOFSTATION Type of station is too large.
0xC0140006	TLR_E_PNIO_APCFG_DBM_WRONG_LEN_NAMEOFSTATION Name of station is too large.
0xC0140007	TLR_E_PNIO_APCFG_DBM_UNKNOWN_IOCRR_KEY Unkwown IOCRR relationship in submodule description.
0xC0140008	TLR_E_PNIO_APCFG_DBM_IOCRR_ALREADY_IN_USE IOCRR is in use by another IO-Device.
0xC0140009	TLR_E_PNIO_APCFG_DBM_WRONG_IOCRR_IN_SUBMDESCR Wrong IO-Type of IOCRR in submodule description.
0xC014000A	TLR_E_PNIO_APCFG_DBM_WRONG_DATALEN_IN_SUBMDESCR Wrong data length in submodule description.
0xC014000B	TLR_E_PNIO_APCFG_DBM_WRONG_DATADESCR_IN_SUBMDESCR Wrong IO-type in data description of the submodule description.
0xC014000C	TLR_E_PNIO_APCFG_DBM_UNEXP_SUBMDESCR Unexpected submodule description.
0xC014000D	TLR_E_PNIO_APCFG_DBM_MISSING_SUBMDESCR Missing submodule description.
0xC014000E	TLR_E_PNIO_APCFG_DBM_ASSERTION_FAILED Assertion failed.
0xC014000F	TLR_E_PNIO_APCFG_PKT_UNEXP_TREE_IDENTIFICATON Wrong sequence/numbering in the tree identification numbers.
0xC0140010	TLR_E_PNIO_APCFG_PKT_OVERWRITING_CONSISTING_DATA Addressed dataset is already existing and would be overwritten.
0xC0140011	TLR_E_PNIO_APCFG_PKT_MISSING_IOCRR Input or output IOCRR of module is missing.
0xC0140012	TLR_E_PNIO_APCFG_PKT_WRONG_IO_TYPE_IN_IOCRR Wrong input or output type in IOCRR.
0xC0140013	TLR_E_PNIO_APCFG_PKT_WRONG_SEQUENCE_OF_FRAGMENTED_PACKETS Wrong sequence of fragmented packets.
0xC0140014	TLR_E_PNIO_APCFG_PKT_WRONG_FRAGMENT_IDENTIFIER Wrong fragment identifier in fragmented packets.
0xC0140015	TLR_E_PNIO_APCFG_PKT_CONFIGURATION_IS_ALREADY_DONE_VIA_DBM Configuration is already done via DBM configuration packets are not accepted.

Hexadecimal Value	Definition Description
0xC0140016	TLR_E_PNIO_APCFG_DBM_INCOMPLETE_CONFIGURATION Incomplete configuration - not all devices are fully developed until submodule descriptions.
0xC0140017	TLR_E_PNIO_APCFG_PKT_DOWNLOAD_ALREADY_FINISHED Packet download is already finished by download finish request.
0xC0140018	TLR_E_PNIO_APCFG_DBM_UNEXP_NUMBER_OF_RECORDS_IN_PNIOC_TABLES More than one entry for one key was found in the tables of the fieldbus specific data.
0xC0140019	TLR_E_PNIO_APCFG_DBM_UNEXP_SIGNAL_ATTRIBUT Unexpected parameter Signal_Attrib in SIGNALS table.
0xC014001A	TLR_E_PNIO_APCFG_DBM_IMPROPER_DPM_OFFSETS_AND_DATA_LENGTHS_IN_SIGNALS Improper DPM offset and data length in SIGNALS.
0xC0140020	TLR_E_PNIO_APCFG_DBM_WRONG_TEST_DATA Wrong test data.
0xC0140021	TLR_E_PNIO_APCFG_DBM_INVALID_IO_DEVICE_AMOUNT Too many IO-Devices are configured.
0xC0140030	TLR_E_PNIO_APCFG_RESOURCE_OUT_OF_MEMORY Not enough memory available for current request.
0xC0140031	TLR_E_PNIO_APCFG_PACKET_SEND_FAILED Error while sending internal message to another task.
0xC0140040	TLR_E_PNIO_APCFG_INVALID_NAME_OF_STATION_LENGTH The length of parameter NameOfStation is invalid.
0xC0140041	TLR_E_PNIO_APCFG_INVALID_NAME_OF_STATION_CHARACTER The NameOfStation contains an invalid character.
0xC0140042	TLR_E_PNIO_APCFG_INVALID_TYPE_OF_STATION_LENGTH The length of parameter TypeOfStation is invalid.
0xC0140043	TLR_E_PNIO_APCFG_INVALID_TYPE_OF_STATION_CHARACTER The TypeOfStation contains an invalid character.
0xC0140044	TLR_E_PNIO_APCFG_INVALID_SYSTEMFLAGS The parameter SystemFlags is invalid.
0xC0140045	TLR_E_PNIO_APCFG_INVALID_WATCHDOG_TIME The parameter WatchdogTime is invalid.
0xC0140046	TLR_E_PNIO_APCFG_INVALID_VENDORID The Parameter VendorID is invalid.
0xC0140047	TLR_E_PNIO_APCFG_INVALID_DEVICEID The parameter DeviceID is invalid.
0xC0140048	TLR_E_PNIO_APCFG_INVALID_IP_ADDRESS The IP-Address to use is invalid.
0xC0140049	TLR_E_PNIO_APCFG_INVALID_NETMASK The NetworkMask to use is invalid.
0xC014004A	TLR_E_PNIO_APCFG_INVALID_GATEWAY The Gateway-Address to use is invalid or unreachable.
0xC014004B	TLR_E_PNIO_APCFG_INVALID_IP_FLAGS The parameter IPFlags is invalid.
0xC014004C	TLR_E_PNIO_APCFG_INVALID_NAME_OF_STATION_STARTLABEL The NameOfStation shall not start with - . or port-xyz.

Hexadecimal Value	Definition Description
0xC014004D	TLR_E_PNIO_APCFG_NAME_OF_STATION_LABEL_TOO_SHORT One label of NameOfStation is too short.
0xC014004E	TLR_E_PNIO_APCFG_NAME_OF_STATION_LABEL_TOO_LONG One label of NameOfStation is too long.
0xC014004F	TLR_E_PNIO_APCFG_NAME_OF_STATION_TOO_MANY_LABELS The NameOfStation contains too many labels.
0xC0140050	TLR_E_PNIO_APCFG_INVALID_RTARETRIES The parameter RTARetries is invalid.
0xC0140051	TLR_E_PNIO_APCFG_INVALID_RTATIMEOUT The parameter RTATimeout is invalid.
0xC0140052	TLR_E_PNIO_APCFG_INVALID_AR_PROPERTIES The parameter ARProperties is invalid.
0xC0140053	TLR_E_PNIO_APCFG_INVALID_AR_TYPE The parameter ARTYPE is invalid.
0xC0140054	TLR_E_PNIO_APCFG_INVALID_AR_UUID The parameter ARUUID is invalid.
0xC0140055	TLR_E_PNIO_APCFG_INVALID_ALARMCR_PROPERTIES The parameter AlarmCRProperties is invalid.
0xC0140056	TLR_E_PNIO_APCFG_INVALID_ALARMCR_TYPE The Parameter AlarmCRType is invalid.
0xC0140060	TLR_E_PNIO_APCFG_INVALID_MCAST_MAC The parameter MulticastMACAddress is invalid.
0xC0140061	TLR_E_PNIO_APCFG_INVALID_FRAMESEND_OFFSET The parameter FrameSendOffset is invalid.
0xC0140062	TLR_E_PNIO_APCFG_INVALID_IOCR_PROPERTIES The parameter IOCRRProperties is invalid.
0xC0140063	TLR_E_PNIO_APCFG_INVALID_IOCR_DATA_LENGTH The parameter IOCRRDataLength is invalid.
0xC0140064	TLR_E_PNIO_APCFG_INVALID_IOCR_TYPE The parameter IOCRRType is invalid.
0xC0140065	TLR_E_PNIO_APCFG_INVALID_DATAHOLDFACTOR The parameter DataHoldFactor is invalid.
0xC0140066	TLR_E_PNIO_APCFG_INVALID_WATCHDOGFACOR The Parameter WatchdogFactor is invalid.
0xC0140067	TLR_E_PNIO_APCFG_INVALID_SENDCLOCKFACTOR The parameter SendClockFactor is invalid.
0xC0140068	TLR_E_PNIO_APCFG_INVALID_REDUCTIONRATIO The parameter ReductionRatio is invalid.
0xC0140069	TLR_E_PNIO_APCFG_INVALID_PHASE The Parameter Phase is invalid.
0xC0140070	TLR_E_PNIO_APCFG_INVALID_IOCSE_LENGTH The parameter IOCSELength is invalid.
0xC0140071	TLR_E_PNIO_APCFG_INVALID_IOPSE_LENGTH The parameter IOPSELength is invalid.
0xC0140072	TLR_E_PNIO_APCFG_INVALID_DPM_OFFSET The parameter DPMOffset is invalid.

Hexadecimal Value	Definition Description
0xC0140073	TLR_E_PNIO_APCFG_INVALID_FRAME_OFFSET The parameter FrameOffset is invalid.
0xC0140074	TLR_E_PNIO_APCFG_INVALID_IOCS_FRAME_OFFSET The parameter IOCSFrameOffset is invalid.
0xC0140075	TLR_E_PNIO_APCFG_INVALID_SUBMODULE_DATA_LENGTH The parameter SubmoduleDataLength is invalid.
0xC0140076	TLR_E_PNIO_APCFG_INVALID_DATA_DESCRIPTION The Parameter DataDescription is invalid.
0xC0140077	TLR_E_PNIO_APCFG_OVERLAPPING_FRAMEOFFSET_DATA The frame offset to use for IO-Data is already in use by another submodule.
0xC0140078	TLR_E_PNIO_APCFG_OVERLAPPING_FRAMEOFFSET_IOCS The frame offset to use for the IOCS is already in use by another submodule.
0xC0140079	TLR_E_PNIO_APCFG_OVERLAPPING_DPMOFFSET The DPM offset to use for IO-Data is already in use by another submodule.
0xC014007A	TLR_E_PNIO_APCFG_FRAMEOFFSET_OUTSIDE_DEFINED_IOCR The frame offset is bigger than the IOCR-length.
0xC014007B	TLR_E_PNIO_APCFG_IOCS_FRAMEOFFSET_OUTSIDE_DEFINED_IOCR The IOCS frame offset is bigger than the IOCR-length.
0xC014007C	TLR_E_PNIO_APCFG_INVALID_IOCR_PROD_ID The IOCRIdProd is invalid.
0xC014007D	TLR_E_PNIO_APCFG_INVALID_IOCR_CONS_ID The IOCRIcons is invalid.
0xC014007E	TLR_E_PNIO_APCFG_INVALID_RECORD_LENGTH The record data length is invalid.
0xC014007F	TLR_E_PNIO_APCFG_DUPLICATE_ARUUID The ARUUID of this IO-Device is already in use by another IO-Device.

Table 83: Error Messages of the APCFG-Task - PROFINET IO-Controller Protocol API 12

27.2.1 Diagnostic Codes of the APCFG -Task

Currently there are no diagnostic messages defined for the APCFG -task of the Profinet IO-Controller firmware for netX-based products.

27.3 Error Codes of the APCTL –Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC00C0003	TLR_E_PNIO_APCTL_HIF_IDENT Error identifying HIF.
0xC00C0004	TLR_E_PNIO_APCTL_AREA_IDENT Unable to identify requested DPM Channel.
0xC00C0005	TLR_E_PNIO_APCTL_GETAREA_IDENT Unable to identify DPM section "STD INPUT".
0xC00C0006	TLR_E_PNIO_APCTL_SETAREA_IDENT Unable to identify DPM section "STD OUTPUT".
0xC00C0007	TLR_E_PNIO_APCTL_SETAREA_INFO_GET Unable to get configuration for DPM section "STD OUTPUT".
0xC00C0008	TLR_E_PNIO_APCTL_TOHOST_MBX_NAME_GET Unable to identify DPM section "TOHOST MBX".
0xC00C0009	TLR_E_PNIO_APCTL_TOHOST_MBX_INFO_GET Unable to get configuration for DPM section "TOHOST MBX".
0xC00C000A	TLR_E_PNIO_APCTL_MIDSYS_QUE_IDENT Unable to identify queue to MidSys.
0xC00C000B	TLR_E_PNIO_APCTL_ENABLE_BUSON_CBK Enabling callback function for ApplicationCOS.BUS_ON bit did not succeed.
0xC00C000C	TLR_E_PNIO_APCTL_ENABLE_APPREADY_CBK Enabling callback function for ApplicationCOS.APP_READY bit did not succeed.
0xC00C000D	TLR_E_PNIO_APCTL_COMMONAREA_IDENT Unable to identify DPM section "COMMON STATUS".
0xC00C000E	TLR_E_PNIO_APCTL_STATUSAREA_IDENT Unable to identify DPM section "EXTENDED STATUS".
0xC00C000F	TLR_E_PNIO_APCTL_CONTROLAREA_IDENT Unable to identify DPM section "CONTROL".
0xC00C0010	TLR_E_PNIO_APCTL_GETAREA_INT_ENBL Unable to enable DPM section "STD INPUT".
0xC00C0011	TLR_E_PNIO_APCTL_SETAREA_INT_ENBL Unable to enable DPM section "STD OUTPUT".
0xC00C0012	TLR_E_PNIO_APCTL_ENABLE_INIT_CBK Enabling callback function for ApplicationCOS.INITIALIZATION bit did not succeed.
0xC00C0013	TLR_E_PNIO_APCTL_VOL_IDENT Unable to identify SysVolume.
0xC00C0014	TLR_E_PNIO_APCTL_VOL_MOUNT Unable to mount SysVolume
0xC00C0015	TLR_E_PNIO_APCTL_FAT_FRMT Unable to format SysVolume.
0xC00C0016	TLR_E_PNIO_APCTL_QUE_CREATE The Queue for APCTL task could not be created.
0xC00C0017	TLR_E_PNIO_APCTL_CMCTL_QUE_IDENT The Queue for CMCTL task could not be identified.

Hexadecimal Value	Definition Description
0xC00C0018	TLR_E_PNIO_APCTL_MGT_QUE_IDENT The Queue for MGT task could not be identified.
0xC00C0019	TLR_E_PNIO_APCTL_ACP_QUE_IDENT The Queue for ACP task could not be identified.
0xC00C001A	TLR_E_PNIO_APCTL_GETAREA_INFO_GET Unable to get configuration for DPM section "STD INPUT".
0xC00C001B	TLR_E_PNIO_APCTL_CLR_PCK_GET Unable to get a free packet from packet pool to unregister DPM channel from rcX.
0xC00C001C	TLR_E_PNIO_APCTL_SET_PCK_GET Unable to get a free packet from packet pool to register DPM channel from rcX.
0xC00C001D	TLR_E_PNIO_APCTL_IDENT_QUE_MIDSYS The Queue of rcX MidSys task could not be identified.
0xC00C001E	TLR_E_PNIO_APCTL_CREATE_TIMER_SET The timer for firmware-controlled handling of IO-data in DPM could not be created.
0xC00C0020	TLR_E_PNIO_APCTL_WDG_INIT The Watchdog timer could not be initialized.
0xC00C0021	TLR_E_INFO_FIELD_ONE_CREATE_FAILED The field for extended APCTL task status information could not be created.
0xC00C0022	TLR_E_INFO_FIELD_TWO_CREATE_FAILED An undefined field could not be created (unused).
0xC00C0023	TLR_E_PNIO_APCTL_POOL_CREATE The packet pool for APCTL task could not be created.
0xC00C0024	TLR_E_PNIO_APCTL_IOCRLIST The number of the input IOCRLs is not equal to the number of the output IOCRLs.
0xC00C0025	TLR_E_PNIO_APCTL_DPM The requested function is not supported because DPM is not initialized.
0xC00C0026	TLR_E_PNIO_APCTL_ENABLE_LOCKCONFIG_CBK Enabling callback function for ApplicationCOS.LOCK_CONFIGURATION bit did not succeed.
0xC00C0027	TLR_E_PNIO_APCTL_LED_CREATE The LEDs could not be initialized.
0xC00C0032	TLR_E_PNIO_APCTL_INVALID_CMCTL_HANDLE The handle used for IO-Device is wrong.
0xC00C0033	TLR_E_PNIO_APCTL_INVALID_NAME_OF_STATION_LENGTH The name to be set has incorrect length.
0xC00C0036	TLR_E_PNIO_APCTL_APCFG_QUE_IDENT Identification of APCFG queue in remote resources failed.
0xC00C0037	TLR_E_PNIO_APCTL_UNKNOWN_ALARM_SPECIFIER The Alarmspecifier is unknown to IO-Controller.
0xC00C0040	TLR_E_PNIO_APCTL_APPLICATION_ALREADY_REGISTERED There is already an Application registered to APCTL-Task.
0xC00C0041	TLR_E_PNIO_APCTL_NO_APPLICATION_REGISTERED There is no Application registered to APCTL-Task.
0xC00C0042	TLR_E_PNIO_APCTL_UNREGISTER_APPLICATION_IMPOSSIBLE It is impossible to unregister the Application in APCTL-Task. Either there is no Application registered or the Deregister Request was not send by the registered Application.

Hexadecimal Value	Definition Description
0xC00C0050	TLR_E_PNIO_APCTL_CHANNEL_INIT_REQUESTED The request is rejected because a Channel Init was requested.
0xC00C0052	TLR_E_PNIO_APCTL_CYCLIC_WATCHDOG_ERROR The connection to an IO-Device was closed because too many cyclic frames were missing.
0xC00C0053	TLR_E_PNIO_APCTL_CONNECTION_CLOSED_BY_IODEVICE The connection was shutdown by an IO-Device.
0xC00C0054	TLR_E_PNIO_APCTL_WATCHDOG_TIME_TOO_SMALL The watchdog time specified is too small.
0xC00C0055	TLR_E_PNIO_APCTL_WATCHDOG_TIME_TOO_BIG The watchdog time specified is too big.
0xC00C0056	TLR_E_PNIO_APCTL_IO_DEVICE_NOT_IN_DATAEXCHANGE The service is unavailable because the IO-Device is not in cyclic data exchange.
0xC00C0060	TLR_E_PNIO_APCTL_ACYCLIC_REQ_FAILED_REMOTE The acyclic service failed. The IO-Device answered with an error code which is contained in confirmation packet.
0xC00C0061	TLR_E_PNIO_APCTL_ACYCLIC_REQ_FAILED_RPC The acyclic service failed. The RPC-layer detected an error which is contained in confirmation packet.
0xC00C0062	TLR_E_PNIO_APCTL_ACYCLIC_REQ_FAILED_INTERNAL The acyclic service failed. An internal error occurred.
0xC00C0063	TLR_E_PNIO_APCTL_TOO_MUCH_IO_DATA_CONFIGURED The maximum supported IO-data size is exceeded.
0xC00C0064	TLR_E_PNIO_APCTL_INVALID_IP_ADDRESS The IP address is invalid.
0xC00C0065	TLR_E_PNIO_APCTL_INVALID_NETMASK The Netmask is invalid.
0xC00C0066	TLR_E_PNIO_APCTL_INVALID_GATEWAY The gateway address is invalid.
0xC00C0067	TLR_E_PNIO_APCTL_TOO_MUCH_DATA_REQUESTED The maximum supported data size for this service is exceeded.

Table 84: Error Messages of the APCTL –Task - PROFINET IO-Controller Protocol API 12

27.3.1 Diagnostic Codes of the APCTL -Task

Currently there are no diagnostic messages defined for the APCTL -task of the Profinet IO-Controller firmware for netX-based products.

27.4 Error Codes of the CMCTL –Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC00A0002	TLR_E_PNIO_STATUS Generic error code. See packets data-status code for details.
0xC00A0010	TLR_E_PNIO_CMCTL_INIT_PARAM_INVALID Invalid parameter in CMCTL_ResourceInit().
0xC00A0011	TLR_E_PNIO_CMCTL_RESOURCE_LIMIT_EXCEEDED No more CMCTL protocol machines possible.
0xC00A0013	TLR_E_PNIO_CMCTL_CLOSED This CMCTL protocol machine was closed.
0xC00A0014	TLR_E_PNIO_CMCTL_STATE_CONFLICT This request can not be served in current CMCTL state.
0xC00A0015	TLR_E_PNIO_CMCTL_CONFIG_PENDING The state of CMCTL's management resource is pending.
0xC00A0016	TLR_E_PNIO_CMCTL_CONFIG_STATE_INVALID The state of CMCTL's management resource is invalid.
0xC00A0019	TLR_E_PNIO_CMCTL_CONN_REQ_LEN_INVALID The length of the Connect-Packet in CMCTL_Connect_req() is invalid.
0xC00A001A	TLR_E_PNIO_CMCTL_NAME_LEN_INVALID The length of the name for IO-Device does not match to the name in CMCTL_Connect_req().
0xC00A001B	TLR_E_PNIO_CMCTL_BLKNUM_UNEXPECTED The Connect-Confirmation contains an incorrect amount of blocks.
0xC00A001C	TLR_E_PNIO_CMCTL_BLKNUM_UNEXPECTED_MEMORY_FAULT The Connect-Confirmation contains an incorrect amount of blocks but may be received correctly in RPC-layer. CMCTL protocol-machine has not reserved enough memory for the whole confirmation.
0xC00A001D	TLR_E_PNIO_CMCTL_INVALID_FRAMEID_RECEIVED The Connect-Response from IO-Device specified an invalid FrameID to use for IO-Controllers OutputCR.
0xC00A001E	TLR_E_PNIO_CMCTL_EMPTY_POOL_DETECTED The packet pool of CMCTL is empty.
0xC00A0020	TLR_E_PNIO_CMCTL_BLKTYPE_UNEXPECTED The connect-confirmation contains an unexpected block.
0xC00A0021	TLR_E_PNIO_CMCTL_BLKTYPE_UNEXPECTED_INIT CMCTL_Connect_req() expected an INIT-block that is missing.
0xC00A0022	TLR_E_PNIO_CMCTL_BLKTYPE_UNEXPECTED_IODW_REQ CMCTL_RMWrite_req() expected a WriteReq-block that is missing.
0xC00A0023	TLR_E_PNIO_CMCTL_BLKTYPE_UNEXPECTED_IODW_DATA CMCTL_RMWrite_req() expected a WriteData-block that is missing.
0xC00A0030	TLR_E_PNIO_CMCTL_BLKLEN_INVALID_INIT INIT-block length for CMCTL_Connect_req() is invalid.
0xC00A0031	TLR_E_PNIO_CMCTL_BLKLEN_INVALID_IODW_REQ WriteReq-block's length for CMCTL_RMWrite_req() is invalid.
0xC00A0032	TLR_E_PNIO_CMCTL_BLKLEN_INVALID_IODW_DATA WriteData-block's length for CMCTL_RMWrite_req() is invalid.

Hexadecimal Value	Definition Description
0xC00A0040	TLR_E_PNIO_CMCTL_INVALID_PM_INDEX The index of CMCTL protocol-machine is invalid.
0xC00A0041	TLR_E_PNIO_CMCTL_INVALID_PM The CMCTL protocol-machine corresponding to index is invalid.
0xC00A0042	TLR_E_PNIO_CMCTL_INVALID_CMCTL_HANDLE The handle to CMCTL protocol-machine is invalid.
0xC00A0050	TLR_E_PNIO_CMCTL_DEVICE_NOT_RESPONDING The IO-Device which shall be connected does not answer.
0xC00A0051	TLR_E_PNIO_CMCTL_DUPLICATE_DEVICE_NAME_DETECTED More than one IO-Device with the specified NameOfStation exists; a connection can not be established.
0xC00A0052	TLR_E_PNIO_CMCTL_DEVICE_IP_ADDRESS_ALREADY_IN_USE The IP-address the controller shall use for the IO-Device is already in use by another network device; a connection can not be established.
0xC00A0060	TLR_E_PNIO_CMCTL_RPC_CONNECT_FAILED The Connect-Response of IO-Device contained an error code; a connection could not be established.
0xC00A0061	TLR_E_PNIO_CMCTL_RPC_WRITE_PARAM_FAILED The Write_Param-Response of IO-Device contained an error code; a connection could not be established.
0xC00A0062	TLR_E_PNIO_CMCTL_RPC_WRITE_FAILED The Write-Response of IO-Device contained an error code.
0xC00A0063	TLR_E_PNIO_CMCTL_RPC_READ_FAILED The Read-Response of IO-Device contained an error code.
0xC00A0064	TLR_E_PNIO_CMCTL_TCP_IP_SHUTDOWN The TCP/IP-Stack closed a socket needed for communication.
0xC00A0065	TLR_E_PNIO_CMCTL_RPC_RESPONSE_TOO_SHORT The RPC-Response received does not have the required minimum length.
0xC00A0070	TLR_E_PNIO_CMCTL_AR_BLOCKTYPE The expected configuration block for AR in CMCTL_RMConnect_req_LoadAr() is missing.
0xC00A0071	TLR_E_PNIO_CMCTL_AR_BLOCKLEN The expected configuration block for AR in CMCTL_RMConnect_req_LoadAr() has an invalid length.
0xC00A0072	TLR_E_PNIO_CMCTL_AR_TYPE The configuration block for AR in CMCTL_RMConnect_req_LoadAr() has an invalid type.
0xC00A0073	TLR_E_PNIO_CMCTL_AR_UUID The configuration block for AR in CMCTL_RMConnect_req_LoadAr() has an invalid UUID.
0xC00A0074	TLR_E_PNIO_CMCTL_AR_PROPERTY The configuration block for AR in CMCTL_RMConnect_req_LoadAr() has an invalid network properties value.
0xC00A0075	TLR_E_PNIO_CMCTL_AR_REF_UNEXPECTED The AR-Reference for CMCTL protocol-machine is invalid.
(0xC00A007)	TLR_E_PNIO_CMCTL_AR_UUID_COMP_FAILED The UUID inside IO-Device's Connect-Confirmation is incorrect.
0xC00A0077	TLR_E_PNIO_CMCTL_AR_KEY_COMP_FAILED The session-key inside IO-Device's Connect-Confirmation is incorrect.
0xC00A0078	TLR_E_PNIO_CMCTL_AR_MAC_COMP_FAILED The MAC-address of IO-Device is incorrect.

Hexadecimal Value	Definition Description
0xC00A0080	TLR_E_PNIO_CMCTL_ALCR_BLOCKTYPE The expected configuration block for Alarm-CR in CMCTL_RMConnect_req_LoadAlcr() is missing.
0xC00A0081	TLR_E_PNIO_CMCTL_ALCR_BLOCKLEN (The expected configuration block for Alarm-CR in CMCTL_RMConnect_req_LoadAlcr() has an invalid length.
0xC00A0082	TLR_E_PNIO_CMCTL_ALCR_TYPE The configuration block for Alarm-CR in CMCTL_RMConnect_req_LoadAlcr() has an invalid type.
0xC00A0083	TLR_E_PNIO_CMCTL_ALCR_PROPERTY The configuration block for Alarm-CR in CMCTL_RMConnect_req_LoadAlcr() has an invalid network properties value.
0xC00A0084	TLR_E_PNIO_CMCTL_ALCR_RTA_FACTOR The configuration block for Alarm-CR in CMCTL_RMConnect_req_LoadAlcr() has an invalid RTA-factor.
0xC00A0085	TLR_E_PNIO_CMCTL_ALCR_RTA_RETRY The configuration block for Alarm-CR in CMCTL_RMConnect_req_LoadAlcr() has an invalid value for RTA-retry.
0xC00A0090	TLR_E_PNIO_CMCTL_IOCR_BLOCKLEN The expected configuration block for IOCR in CMCTL_RMConnect_req_Loadlocr() has an invalid length.
0xC00A0091	TLR_E_PNIO_CMCTL_IOCR_TYPE_UNSUPPORTED The type of IOCR is unsupported.
0xC00A0092	TLR_E_PNIO_CMCTL_IOCR_TYPE_UNKNOWN The type of IOCR is unknown.
0xC00A0093	TLR_E_PNIO_CMCTL_IOCR_RTCCLASS_UNSUPPORTED The RTC-class is unsupported.
0xC00A0094	TLR_E_PNIO_CMCTL_IOCR_RTCCLASS_UNKNOWN The RTC-class is unknown.
0xC00A0095	TLR_E_PNIO_CMCTL_IOCR_IFTYPE_UNSUPPORTED The expected configuration block for IOCR in CMCTL_RMConnect_req_Loadlocr() has an unsupported interface-type.
0xC00A0096	TLR_E_PNIO_CMCTL_IOCR_SCSYNC_UNSUPPORTED The expected configuration block for IOCR in CMCTL_RMConnect_req_Loadlocr() has an unsupported value for SendClock.
0xC00A0097	TLR_E_PNIO_CMCTL_IOCR_ADDRESS_UNSUPPORTED The expected configuration block for IOCR in CMCTL_RMConnect_req_Loadlocr() has an unsupported Address-Resolution.
0xC00A0098	TLR_E_PNIO_CMCTL_IOCR_REDUNDANCY_UNSUPPORTED The expected configuration block for IOCR in CMCTL_RMConnect_req_Loadlocr() has an unsupported Media-Redundancy.
0xC00A0099	TLR_E_PNIO_CMCTL_IOCR_REFERENCE No IOCR could be found or created.
0xC00A009A	TLR_E_PNIO_CMCTL_IOCR_OBJECT_IOD The expected configuration block for IOCR in CMCTL_RMConnect_req_Loadlocr() does not contain any IO-Data.
0xC00A009B	TLR_E_PNIO_CMCTL_IOCR_OBJECT_IOS The expected configuration block for IOCR in CMCTL_RMConnect_req_Loadlocr() does not contain any IO-Status.

Hexadecimal Value	Definition Description
0xC00A009C	TLR_E_PNIO_CMCTL_IOCRR_API The expected configuration block for IOCRR in CMCTL_RMConnect_req_LoadIocr() does not contain any API.
0xC00A00A0	TLR_E_PNIO_CMCTL_EXPS_BLOCKLEN The expected configuration block for Expected-Submodules in CMCTL_RMConnect_req_LoadExps() has an invalid length.
0xC00A00A1	TLR_E_PNIO_CMCTL_EXPS_API The expected configuration block for Expected-Submodules in CMCTL_RMConnect_req_LoadExps() does not contain any API.
0xC00A00A2	TLR_E_PNIO_CMCTL_EXPS_SUBMODULE The expected configuration block for Expected-Submodules in CMCTL_RMConnect_req_LoadExps() does not contain any submodules.
0xC00A00A3	TLR_E_PNIO_CMCTL_EXPS_DATADESCRIPTION The expected configuration block for Expected-Submodules in CMCTL_RMConnect_req_LoadExps() does not contain the expected amount of data-descriptions.
0xC00C00AA	TLR_E_PNIO_CMCTL_ACYCLIC_REQ_FAILED_REMOTE The acyclic service failed. The IO-Device answered with an error code which is contained in confirmation packet.
0xC00C00AB	TLR_E_PNIO_CMCTL_ACYCLIC_REQ_FAILED_RPC The acyclic service failed. The RPC-layer detected an error which is contained in confirmation packet.
0xC00C00AC	TLR_E_PNIO_CMCTL_ACYCLIC_REQ_FAILED_INTERNAL The acyclic service failed. An internal error occurred.

Table 85: Error Messages of the CMCTL-Task - PROFINET IO-Controller Protocol API 12

27.4.1 Diagnostic Codes of the CMCTL –Task

Hexadecimal Value	Definition Description
0x0000	TLR_S_OK Status ok
0xC00AF000	TLR_DIAG_E_CMCTL_TASK_RESOURCE_INIT_FAILED Initializing CMCTL's task-resources failed.
0xC00AF001	TLR_DIAG_E_CMCTL_TASK_CREATE_QUE_FAILED Failed to create message-queue for CMCTL.
0xC00AF002	TLR_DIAG_E_CMCTL_TASK_CREATE_SYNC_QUE_FAILED Failed to create synchronous message-queue for CMCTL.
0xC00AF003	TLR_DIAG_E_CMCTL_TASK_RPC_INIT_FAILED Failed to initialize CMCTL's local RPC-resources.
0xC00AF004	TLR_DIAG_E_CMCTL_TASK_IDENT_ACP_QUE_FAILED Failed to get handle to ACP message-queue in CMCTL.
0xC00AF005	TLR_DIAG_E_CMCTL_TASK_IDENT_MGT_QUE_FAILED Failed to get handle to MGT message-queue in CMCTL.
0xC00AF006	TLR_DIAG_E_CMCTL_TASK_IDENT_RPC_QUE_FAILED Failed to get handle to RPC message-queue in CMCTL.
0xC00AF007	TLR_DIAG_E_CMCTL_TASK_IDENT_TCP_QUE_FAILED Failed to get handle to TCP/IP message-queue in CMCTL .

Table 86: Diagnostic Messages of the CMCTL –Task - PROFINET IO-Controller Protocol API 12

27.5 Error Codes of the DCP –Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC012000A	TLR_E_PNIO_DCP_PARAM_INVALID_EDD Invalid parameter in Start-Edd-packet for DCP_StartEDD_req().
0xC0120010	TLR_E_PNIO_DCPMCR_INIT_PARAM_INVALID Invalid parameter (uiMaxMcr) in DCPMCR_ResourceInit().
0xC0120012	TLR_E_PNIO_DCPMCR_RESOURCE_LIMIT_EXCEEDED The index of DCPMCR's protocol machine is invalid.
0xC0120014	TLR_E_PNIO_DCPMCR_RESOURCE_STATE_INVALID The state of DCPMCR protocol machine is incorrect for current request.
0xC0120015	TLR_E_PNIO_DCPMCR_RESOURCE_HANDLE_INVALID The handle to DCPMCR protocol machine in invalid.
0xC0120016	TLR_E_PNIO_DCPMCR_TIMER_CREATE_FAILED DCPMCR_Activate_req() was unable to create a TLR-timer.
0xC012001A	TLR_E_PNIO_DCPMCR_FRAME_OUT_OF_MEMORY DCPMCR was not able to get an Edd_FrameBuffer for sending a packet.
0xC012001B	TLR_E_PNIO_DCPMCR_FRAME_SEND_FAILED An error occurred while DCPMCR was trying to send an Edd_Frame.
0xC012001C	TLR_E_PNIO_DCPMCR_WAIT_ACK DCPMCR could not be closed because it is still waiting for an ACK.
0xC0120100	TLR_E_PNIO_DCPMCS_INIT_PARAM_INVALID Invalid parameter (uiMaxMcs) in DCPMCS_ResourceInit().
0xC0120102	TLR_E_PNIO_DCPMCS_RESOURCE_LIMIT_EXCEEDED There are too many outstanding DCPMCS requests. New requests will not be accepted.
0xC0120104	TLR_E_PNIO_DCPMCS_RESOURCE_STATE_INVALID The state of DCPMCS protocol machine is incorrect for current request.
0xC0120105	TLR_E_PNIO_DCPMCS_RESOURCE_HANDLE_INVALID The handle to DCPMCS protocol machine is invalid.
0xC0120106	TLR_E_PNIO_DCPMCS_TIMER_CREATE_FAILED DCPMCS_Activate_req() was unable to create a TLR-timer.
0xC012010A	TLR_E_PNIO_DCPMCS_FRAME_OUT_OF_MEMORY DCPMCS was not able to get an Edd_FrameBuffer for sending a packet.
0xC012010B	TLR_E_PNIO_DCPMCS_FRAME_SEND_FAILED An error occurred while DCPMCS was trying to send an Edd_Frame.
0xC0120200	TLR_E_PNIO_DCPUCR_INIT_PARAM_INVALID Invalid parameter (uiMaxUcr) in DCPUCR_ResourceInit().
0xC0120202	TLR_E_PNIO_DCPUCR_RESOURCE_LIMIT_EXCEEDED The index of DCPUCR's protocol machine is invalid.
0xC0120204	TLR_E_PNIO_DCPUCR_RESOURCE_STATE_INVALID The state of DCPUCR protocol machine is incorrect for current request.
0xC0120205	TLR_E_PNIO_DCPUCR_RESOURCE_HANDLE_INVALID The handle to DCPUCR protocol machine in invalid.
0xC0120206)	TLR_E_PNIO_DCPUCR_TIMER_CREATE_FAILED DCPUCR_Activate_req() was unable to create a TLR-timer.

Hexadecimal Value	Definition Description
0xC012020A	TLR_E_PNIO_DCPUCR_FRAME_OUT_OF_MEMORY DCPUCR was not able to get an Edd_FrameBuffer for sending a packet.
0xC012020B	TLR_E_PNIO_DCPUCR_FRAME_SEND_FAILED An error occurred while DCPUCR was trying to send an Edd_Frame.
0xC012020C	TLR_E_PNIO_DCPUCR_SERVICE_INVALID The DCP-command of received response does not match the outstanding request in DCPUCR.
0xC012020D	TLR_E_PNIO_DCPUCR_WAIT_ACK DCPUCR could not be closed because it is still waiting for an ACK.
0xC0120300	TLR_E_PNIO_DCPUCS_INIT_PARAM_INVALID Invalid parameter (uiMaxUcs) in DCPUCS_ResourceInit().
0xC0120302	TLR_E_PNIO_DCPUCS_RESOURCE_LIMIT_EXCEEDED There are too many outstanding DCPUCS requests. New requests will not be accepted.
0xC0120304	TLR_E_PNIO_DCPUCS_RESOURCE_STATE_INVALID The state of DCPUCS protocol machine is incorrect for current request.
0xC0120305	TLR_E_PNIO_DCPUCS_RESOURCE_HANDLE_INVALID The handle to DCPUCS protocol machine is invalid.
0xC0120306	TLR_E_PNIO_DCPUCS_TIMER_CREATE_FAILED DCPUCS_Activate_req() was unable to create a TLR-timer.
0xC012030A	TLR_E_PNIO_DCPUCS_FRAME_OUT_OF_MEMORY DCPUCS was not able to get an Edd_FrameBuffer for sending a packet.
0xC012030B	TLR_E_PNIO_DCPUCS_FRAME_SEND_FAILED An error occurred while DCPUCS was trying to send an Edd_Frame.
0xC012030C	TLR_E_PNIO_DCPUCS_FRAME_TIMEOUT DCPUCS did not get a response to an Edd_Frame send .
0xC0120320	TLR_E_PNIO_DCPUCS_DCP_OPTION_UNSUPPORTED The DCP option to set is not supported by IO-Device.
0xC0120321	TLR_E_PNIO_DCPUCS_DCP_SUBOPTION_UNSUPPORTED The DCP suboption to set is not supported by IO-Device.
0xC0120022	TLR_E_PNIO_DCPUCS_DCP_SUBOPTION_NOT_SET The DCP suboption to set was not set inside IO-Device.
0xC0120023	TLR_E_PNIO_DCPUCS_DCP_RESOURCE_ERROR An internal resource error occurred in IO-Device while performing a DCP request.
0xC0120024	TLR_E_PNIO_DCPUCS_DCP_SET_IMPOSSIBLE_LOCAL_REASON The DCP (sub)option could not be set inside IO-Device for IO-Device internal reasons.
0xC0120025	TLR_E_PNIO_DCPUCS_DCP_SET_IMPOSSIBLE_WHILE_OPERATION The DCP (sub)option could not be set inside IO-Device because IO-Device is in operation.

Table 87: Error Messages of the DCP -Task - PROFINET IO-Controller Protocol API 12

27.5.1 Diagnostic Codes of the DCP –Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC012F001	TLR_E_PNIO_DCP_COMMAND_INVALID Received invalid command in DCP task.
0xC012F010	TLR_DIAG_E_DCP_TASK_UCS_RESOURCE_INIT_FAILED Failed to initialize DCPUCS.
0xC012F011	TLR_DIAG_E_DCP_TASK_UCR_RESOURCE_INIT_FAILED Failed to initialize DCPUCR.
0xC012F012	TLR_DIAG_E_DCP_TASK_MCS_RESOURCE_INIT_FAILED Failed to initialize DCPMCS.
0xC012F013	TLR_DIAG_E_DCP_TASK_MCR_RESOURCE_INIT_FAILED Failed to initialize DCPMCR.
0xC012F014	TLR_DIAG_E_DCP_TASK_CREATE_QUE_FAILED Failed to create message-queue for DCP task.

Table 88: Diagnostic Messages of the DCP-Task - PROFINET IO-Controller Protocol API 12

27.6 Error Codes of the EDD –Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC00E0001	TLR_E_PNIO_EDD_PROCESS_END Return value of EDD_Scheduler_PreProcess().
0xC00E0002	TLR_E_PNIO_EDD_PARAM_INVALID_EDD Invalid parameter for EDD_Scheduler_Start_req().

Table 89: Error Messages of the EDD-Task - PROFINET IO-Controller Protocol API 12

27.6.1 Diagnostic Codes of the EDD –Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC00EF001	TLR_E_PNIO_EDD_COMMAND_INVALID Received invalid command in EDD task.
0xC00EF010	TLR_DIAG_E_EDD_TASK_INIT_LOCAL_FAILED Failed to initialize EDD's local resources.

Table 90: Diagnostic Messages of the EDD-Task - PROFINET IO-Controller Protocol API 12

27.7 Error Codes of the MGT –Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0130001	TLR_E_PNIO_MGT_PACKET_SEND_FAILED Invalid parameter (uiMaxNrpm) in NRPM_ResourceInit().
0xC0130010	TLR_E_PNIO_NRPM_PARAM_INVALID_INIT The handle to NRPM protocol machine is invalid.
0xC0130011	TLR_E_PNIO_NRPM_HANDLE_INVALID The state of NRPM protocol machine is invalid.
0xC0130012	TLR_E_PNIO_NRPM_STATE_INVALID The identify-flag in NRPM_Init_req() is invalid.
0xC0130013	TLR_E_PNIO_NRPM_IDENTIFY_FLAG_INVALID The requested number of NRPM protocol machines exceeds the highest possible number in NRPM_Init_req().
0xC0130014	TLR_E_PNIO_NRPM_RESOURCE_LIMIT_EXCEEDED Insufficient memory in NRPM_Init_req().
0xC0130015	TLR_E_PNIO_NRPM_RESOURCE_OUT_OF_MEMORY Error while sending a packet to another task in NRPM.
0xC0130016	TLR_E_PNIO_NRPM_PACKET_SEND_FAILED Insufficient memory to allocate a packet in NRPM.
0xC0130017	TLR_E_PNIO_NRPM_PACKET_OUT_OF_MEMORY Received request with invalid type of DCP request in NRPM.
0xC0130018	TLR_E_PNIO_NRPM_DCP_TYPE_INVALID The requested NameOfStation is invalid. Either it has an invalid length or it contains invalid characters.
0xC0130019	TLR_E_PNIO_NRPM_NAME_OF_STATION_INVALID The requested DCP Set operation failed.
0xC013001A	TLR_E_PNIO_NRPM_DCP_SET_ERROR The IP-address the controller shall set for the IO-Device is already in use by another network device.
0xC013001B	TLR_E_PNIO_NRPM_DEVICE_IP_ADDRESS_ALREADY_IN_USE The handle to RMPM is invalid.
0xC0130101	TLR_E_PNIO_RMPM_HANDLE_INVALID The state of RMPM is invalid for current request.
0xC0130102	TLR_E_PNIO_RMPM_STATE_INVALID The state of RMPM is closed
0xC0130103	TLR_E_PNIO_RMPM_STATE_CLOSING The number of RMPM state-machines is to high.
0xC0130104	TLR_E_PNIO_RMPM_RESOURCE_LIMIT_EXCEEDED
0xC0130105	TLR_E_PNIO_RMPM_RESOURCE_OUT_OF_MEMORY Insufficient memory to fulfil the current request in RMPM.
0xC0130106	TLR_E_PNIO_RMPM_PACKET_SEND_FAILED Error while sending a packet to another task in RMPM.
0xC0130107	TLR_E_PNIO_RMPM_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet in RMPM.

Hexadecimal Value	Definition Description
0xC0130108	TLR_E_PNIO_RMPM_ROLE_UNSUPPORTED The parameter "role" is unsupported in RMPM_Init_req_ParameterRole() .
0xC0130109	TLR_E_PNIO_RMPM_ROLE_UNKNOWN The parameter "role" is unknown in RMPM_Init_req_ParameterRole() .
0xC013010A	TLR_E_PNIO_RMPM_ROLE_IN_USE The parameter "role" is already in use in RMPM_Init_req_ParameterRole() .
0xC013010B	TLR_E_PNIO_RMPM_CONFIG_SEQUENCE Incorrect sequence of configuration in RMPM_ConfigSet_req().
0xC013010C	TLR_E_PNIO_RMPM_CONFIG_INVALID_VENDOR_ID Incorrect configuration of Vendor-ID in RMPM_ConfigSet_req().
0xC013010D	TLR_E_PNIO_RMPM_CONFIG_INVALID_NAME Incorrect name of station in RMPM_ConfigSet_req().
0xC013010E	TLR_E_PNIO_RMPM_CONFIG_INVALID_TYPE Incorrect name of type in RMPM_ConfigSet_req().
0xC0130110	TLR_E_PNIO_RMPM_DUPLICATE_NAME_OF_STATION The NameOfStation of IO-Controller is in use by another network device.
0xC0130111	TLR_E_PNIO_RMPM_DUPLICATE_IP The IP-address the IO-Controller shall use is in use by another network device.
0xC0130120	TLR_E_PNIO_RMPM_INVALID_IP_ADDRESS The IP address is invalid.
0xC0130121	TLR_E_PNIO_RMPM_INVALID_NETMASK The network mask is invalid.
0xC0130122	TLR_E_PNIO_RMPM_INVALID_GATEWAY The gateway address is invalid.
0xC0130200	TLR_E_PNIO_NRMC_PARAM_INVALID_INIT
0xC0130201	TLR_E_PNIO_NRMC_HANDLE_INVALID The handle to NRMC is invalid.
0xC0130202	TLR_E_PNIO_NRMC_STATE_INVALID The state of NRMC is invalid for current request.
0xC0130203	TLR_E_PNIO_NRMC_IDENTIFY_FLAG_INVALID NRMC Identity flag invalid
0xC0130204	TLR_E_PNIO_NRMC_RESOURCE_LIMIT_EXCEEDED The number of NRMC state-machines is too high.
0xC0130205	TLR_E_PNIO_NRMC_RESOURCE_OUT_OF_MEMORY Insufficient memory to fulfill the current request in NRMC.
0xC0130206	TLR_E_PNIO_NRMC_PACKET_SEND_FAILED Error while sending a packet to another task in NRMC.
0xC0130207	TLR_E_PNIO_NRMC_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet in NRMC.
0xC0130208	TLR_E_PNIO_NRMC_DCP_TYPE_INVALID NRMC DCP Type invalid

Table 91: Error Messages of the MGT-Task - PROFINET IO-Controller Protocol API 12

27.7.1 Diagnostic Codes of the MGT –Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC013F010	TLR_DIAG_E_MGT_TASK_RMPM_RESOURCE_INIT_FAILED Failed to initialize RMPM.
0xC013F011	TLR_DIAG_E_MGT_TASK_NRPM_RESOURCE_INIT_FAILED Failed to initialize NRPM.
0xC013F012	TLR_DIAG_E_MGT_TASK_CREATE_QUE_FAILED Failed to create message-queue for MGT task.
0xC013F013	TLR_DIAG_E_MGT_TASK_IDENT_TCPUDP_QUE_FAILED Failed to get handle to TCP/IP task in MGT task.
0xC013F014	TLR_DIAG_E_MGT_TASK_IDENT_DCP_QUE_FAILED Failed to get handle to DCP task in MGT task.
0xC013F015	TLR_DIAG_E_MGT_TASK_IDENT_EDD_FAILED Failed to identify Drv_EDD im MGT task.
0xC011F016	TLR_DIAG_E_ACP_TASK_CREATE_QUE_FAILED Failed to create message-queue for ACP.

Table 92: Diagnostic Messages of the MGT-Task - PROFINET IO-Controller Protocol API 12

27.8 Error Codes of the RPC –Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC02E0100	TLR_E_RPC_STATUS Generic RPC-error code. See Profinet-status code for details.
0xC02E0101	TLR_E_RPC_CONNECT_OUT_OF_MEMORY There was not enough memory allocated to receive the whole IO-Device's Connect-Response PDU. Most likely it contains a very large ModuleDiff-Block.
0xC02E0102	TLR_E_RPC_FATAL_ERROR_CLB_ALREADY_REGISTERED The fatal error callback function is already registered.
0xC02E0200	TLR_E_CLRPC_PACKET_SEND_FAILED Error while sending internal message to another task.
0xC02E0201	TLR_E_CLRPC_TIMER_OUT_OF_MEMORY Creating a TLR-Timer-packet in RPC task failed due to insufficient memory.
0xC02E0300	TLR_E_CLRPC_MAPPER_INIT_FAILED The parameter "uiMaxReg" (maximum amount of RPC-mapper registrations) is invalid in CLRPC_EPMap_Initialize().
0xC02E0301	TLR_E_CLRPC_MAPPER_RESOURCE_LIMIT_EXCEEDED The requested Endpoint-Mapper index is invalid.
0xC02E0303	TLR_E_CLRPC_MAPPER_STATUS_INVALID The state of Endpoint-Mapper is invalid for this request.
0xC02E0304	TLR_E_CLRPC_MAPPER_STATUS_CLOSING The Endpoint-Mapper is waiting for close-confirmation and therefore its status is invalid for this request.
0xC02E0305	TLR_E_CLRPC_MAPPER_STATUS_UNKNOWN The status of Endpoint-Mapper is unknown.
0xC02E0306	TLR_E_CLRPC_MAPPER_STATUS_CONFLICT The status of Endpoint-Mapper is not "Ready" and therefore request CLRPC_EPMap_Deregister_req() is invalid.
0xC02E0307	TLR_E_CLRPC_MAPPER_PARAMETER_FAILED Invalid parameter in CLRPC_EPMap_Register_req_Compare().
0xC02E0308	TLR_E_CLRPC_MAPPER_SERVER_REGISTERED CLRPC_EPMap_Deregister_req() is not allowed because at least one RPC-Server is registered to this Endpoint-Mapper.
0xC02E0400	TLR_E_CLRPC_SERVER_INIT_FAILED An error occurred in CLRPC_Server_Initialize().
0xC02E0401	TLR_E_CLRPC_SERVER_RESOURCE_LIMIT_EXCEEDED The maximum number of registered RPC-Servers is exceeded or the maximum number of outstanding requests is exceeded.
0xC02E0402	TLR_E_CLRPC_SERVER_TIMER_CREATE_FAILED Creating TLR-Timer for RPC-Server failed.
0xC02E0403	TLR_E_CLRPC_SERVER_NO_SERVER_REGISTERED There is no RPC-Server registered that could be deregistered (CLRPC_ServerDeregister_req()).
0xC02E0405	TLR_E_CLRPC_SERVER_MAPPER_HANDLE_INVALID The handle to Endpoint-Mapper in CLRPC_ServerRegister_req() is invalid.
0xC02E0406	TLR_E_CLRPC_SERVER_MAPPER_STATUS_INVALID The status of Endpoint-Mapper in CLRPC_ServerRegister_req() is invalid.

Hexadecimal Value	Definition Description
0xC02E0407	TLR_E_CLRPC_SERVER_HANDLE_INVALID The handle to RPC-Server instance is invalid.
0xC02E0408	TLR_E_CLRPC_SERVER_OBJECT_REGISTERED There is at least one object registered to RPC-Server instance. CLRPC_ServerDeregister_req() can not proceed.
0xC02E0409	TLR_E_CLRPC_SERVER_PARAM_RECV_I Invalid parameter "ulMaxRecv" in request-packet in CLRPC_ServerRegister_req(). //
0xC02E040A	TLR_E_CLRPC_SERVER_PARAM_SEND_INVALID Invalid parameter "ulMaxSend" in request-packet in CLRPC_ServerRegister_req().
0xC02E040B	TLR_E_CLRPC_SERVER_ELEMENT_INVALID Invalid RPC-Server element "ptElem". Internal RPC-Error.
0xC02E040C	TLR_E_CLRPC_SERVER_REQUEST_CANCELED This RPC-Request was canceled.
0xC02E0501	TLR_E_CLRPC_OBJECT_SERVER_HANDLE_INVALID The handle to RPC-Server instance in CLRPC_ObjectRegister_req() is invalid.
0xC02E0502	TLR_E_CLRPC_OBJECT_SERVER_STATUS_INVALID The status of RPC-Server instance in CLRPC_ObjectRegister_req() is invalid.
0xC02E0503	TLR_E_CLRPC_OBJECT_HANDLE_INVALID The handle to RPC-Object instance in CLRPC_ObjectDeregister_req() is invalid.
0xC02E0600	TLR_E_CLRPC_CLIENT_INIT_FAILED One of the parameters "uiMaxReg" or "uiMaxReq" in CLRPC_Client_Initialize() is invalid.
0xC02E0601	TLR_E_CLRPC_CLIENT_RESOURCE_LIMIT_EXCEEDED The maximum number of parallel RPC-Client instances in reached in CLRPC_ClientRegister_req()
0xC02E0602	TLR_E_CLRPC_CLIENT_TIMER_CREATE_FAILED Creating the TLR-Timer for RPC-Client instance in CLRPC_ClientRegister_req() failed.
0xC02E0604	TLR_E_CLRPC_CLIENT_MAPPER_STATUS_INVALID The state of Endpoint-Mapper is invalid for this request.
0xC02E0605	TLR_E_CLRPC_CLIENT_HANDLE_INVALID The handle to RPC-Client instance is invalid.
0xC02E0606	TLR_E_CLRPC_CLIENT_REQUEST_LIMIT_EXCEEDED The maximum amount of outstanding RPC-Requests for this RPC-Clients instance is reached.
0xC02E0607	TLR_E_CLRPC_CLIENT_OPCODE_SEQUENCE RPC-Client instances can only connect to an IO-Device if there are no outstanding RPC-Requests. Currently at least one RPC-Request is outstanding.
0xC02E0608	TLR_E_CLRPC_CLIENT_DEREGISTERED The RPC-Client instance you tried to use is going to deregister right now. Aborting your Request !
0xC02E0609	TLR_E_CLRPC_CLIENT_ELEMENT_INVALID Invalid RPC-Client instance element "ptElem". Internal RPC-Error.
0xC02E060A	TLR_E_CLRPC_CLIENT_LONG_TIMEOUT_HIT The LONG timeout TLR-timer for an outstanding RPC-Request hit. Used internally in RPC only.
0xC02E060B	TLR_E_CLRPC_CLIENT_RESPONSE_SEQUENCE_NUMBER Invalid sequence number in RPC-Message received by RPC-Client instance.

Table 93: Error Messages of the RPC –Task - PROFINET IO-Controller Protocol API 12

27.8.1 Diagnostic Codes of the RPC –Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC02E0010	TLR_DIAG_E_RPC_TASK_CLIENT_RESOURCE_INIT_FAILED Initiating CLRPC-Client failed. (CLRPC_Client_Initialize())
0xC02E0011	TLR_DIAG_E_RPC_TASK_SERVER_RESOURCE_INIT_FAILED Initiating CLRPC-Server failed (CLRPC_Server_Initialize()).
0xC02E0012	TLR_DIAG_E_RPC_TASK_EPMAPI_RESOURCE_INIT_FAILED Initiating CLRPC-Endpoint-Mapper failed (CLRPC_Mapper_Initialize()).
0xC02E0013	TLR_DIAG_E_RPC_TASK_INIT_LOCAL_CREATE_QUEUE_FAILED Creating message queue failed.
0xC02E0014	TLR_DIAG_E_RPC_TASK_INIT_REMOTE_IDENT_EDD_FAILED Identifying Drv_EDD failed.
0xC02E0015	TLR_DIAG_E_RPC_TASK_INIT_REMOTE_GET_MAC_FAILED Getting the MAC address failed.
0xC02E0016	TLR_DIAG_E_RPC_TASK_INIT_REMOTE_IDENT_TCPUDP_QUEUE_FAILED Getting queue handle to TCPIP-Task failed.

Table 94: Diagnostic Messages of the RPC-Task - PROFINET IO-Controller Protocol API 12

27.9 Other Relevant Error Codes

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0000003	RCX_E_OUTOFMEMORY Out of memory
0xC0000004	RCX_E_UNKNOWN_COMMAND Unknown command
0xC0000010	RCX_E_PACKET_OUT_OF_MEMORY Packet out of memory
0xC0000012	RCX_E_QUE_SENDBUFFER Queue send packet
0xC000001A	RCX_E_REQUEST_RUNNING Request running
0xC0000180	RCX_E_BUS_OFF Bus off
0xC0000181	RCX_E_CONFIG_LOCKED Configuration locked
0xC0110020	TLR_E_PNIO_ALARM_PARAM_INVALID_INIT Invalid parameter "uiMaxAlpm" in Alarm_ResourceInit().
0xC0110021	TLR_E_PNIO_ALARM_RESOURCE_OUT_OF_MEMORY Insufficient memory in Alarm_ResourceInit().
0xC0110090	TLR_E_PNIO_ALPMI_PRIORITY_INVALID Invalid alarm priority in request packet of ALPMI_AlarmAck_req().
0xC0110091	TLR_E_PNIO_ALPMI_RESOURCE_LIMIT_EXCEEDED The requested number of ALPMI protocol machines exceeds the highest possible number in ALPMI_Init_req().
0xC0110092	TLR_E_PNIO_ALPMI_RESOURCE_OUT_OF_MEMORY Insufficient memory in ALPMI_Init_req().
0xC0110093	TLR_E_PNIO_ALPMI_HANDLE_INVALID The ALPMI protocol-machine corresponding to the index in request packet is invalid.
0xC0110094	TLR_E_PNIO_ALPMI_STATE_INVALID The ALPMI protocol-machine state is invalid for the current request.
0xC0110095	TLR_E_PNIO_ALPMI_PACKET_SEND_FAILED Sending an Alarm-Indication-packet to another task failed in ALPMI.
0xC0110096	TLR_E_PNIO_ALPMI_PACKET_OUT_OF_MEMORY Creating an Alarm-Indication-packet to be send to another task failed due to insufficient memory.
0xC0110097	TLR_E_PNIO_ALPMI_RESOURCE_INDEX_INVALID The index of ALPMI's protocol machine is invalid.
0xC0110030	TLR_E_PNIO_ALPMR_PRIORITY_INVALID Invalid alarm priority in request packet of ALPMR_AlarmAck_req().
0xC0110031	TLR_E_PNIO_ALPMR_RESOURCE_LIMIT_EXCEEDED The requested number of ALPMR protocol machines exceeds the highest possible number in ALPMR_Init_req(). //
0xC0110033	TLR_E_PNIO_ALPMR_HANDLE_INVALID The ALPMR protocol-machine corresponding to the index in request packet is invalid.

Hexadecimal Value	Definition Description
0xC0110034	TLR_E_PNIO_ALPMR_STATE_INVALID The ALPMR protocol-machine state is invalid for the current request.
0xC0110036	TLR_E_PNIO_ALPMR_PACKET_OUT_OF_MEMORY Creating an Alarm-Indication-packet to be send to another task failed due to insufficient memory.
0xC0110037	TLR_E_PNIO_ALPMR_RESOURCE_INDEX_INVALID The index of ALPMR's protocol machine is invalid.
0xC0110040	TLR_E_PNIO_APMR_PARAM_INVALID_INIT The parameter uiMaxApmr (maximum number of parallel APMR protocol-machines) in APMR_ResourceInit() is invalid.
0xC0110042	TLR_E_PNIO_APMR_HANDLE_INVALID The APMR protocol machine or its index is invalid.
0xC0110043	TLR_E_PNIO_APMR_STATE_INVALID The state of APMR protocol machine is invalid for current request.
0xC0110044	TLR_E_PNIO_APMR_FRAME_SEND_FAILED Sending an ACK or NAK in response to a received Alarm-PDU failed.
0xC0110050	TLR_E_PNIO_APMS_PARAM_INVALID_INIT The parameter uiMaxApms (maximum number of parallel APMS protocol-machines) in APMS_ResourceInit() is invalid.
0xC0110052	TLR_E_PNIO_APMS_HANDLE_INVALID The APMS protocol machine or its index is invalid.
0xC0110053	TLR_E_PNIO_APMS_STATE_INVALID The state of APMS protocol machine is invalid for current request.
0xC0110054	TLR_E_PNIO_APMS_FRAME_OUT_OF_MEMORY APMS was not able to get an Edd_FrameBuffer for sending a packet.
0xC0110055	TLR_E_PNIO_APMS_FRAME_SEND_FAILED An error occurred while APMS was trying to send an Edd_Frame.
0xC0110056	TLR_E_PNIO_APMS_TIMER_CREATE_FAILED APMS_Activate_req() was not able to create a TLR-Timer.
0xC0110057	TLR_E_PNIO_APMS_TIMER_OUT_OF_MEMORY Insufficient memory for APMS_Send_req_Data() to allocate a timer-indication packet.
0xC0110060	TLR_E_PNIO_CPM_PARAM_INVALID_INIT The parameter uiMaxCpmRtc1 and/or uiMaxCpmRtc2 of CPM_ResourceInit() is invalid.
0xC0110061	TLR_E_PNIO_CPM_PARAM_INVALID_CLASS The requested RTC-class is invalid in CPM_Init_req().
0xC0110062	TLR_E_PNIO_CPM_RESOURCE_LIMIT_EXCEEDED The requested amount of CPM protocol machines is higher than the highest possible value.
0xC0110064	TLR_E_PNIO_CPM_HANDLE_INVALID The handle to CPM protocol machine in invalid.
0xC0110065	TLR_E_PNIO_CPM_STATE_INVALID The state of CPM protocol machine is incorrect for current request.
0xC0110066	TLR_E_PNIO_CPM_PHASE_LIMIT_EXCEEDED Invalid phase found in Init-request-packet in CPM_Init_req() or in ACP_PhaseCpmAdd_req() or ACP_PhaseCpmRemove_req().
0xC0110067	TLR_E_PNIO_CPM_SEND_CLOCK_LIMIT_EXCEEDED The SendClock-factor in Init-request-packet to CPM does not match the one in ACP_Tasks' resources.
0xC0110069	TLR_E_PNIO_CPM_DATALEN_LIMIT_EXCEEDED Packet size to receive is too big. Error is detected in CPM_Init_req().

Hexadecimal Value	Definition Description
0xC011006A	TLR_E_PNIO_CPM_PACKET_SEND_FAILED Error while sending a packet to another task in CPM.
0xC0110080	TLR_E_PNIO_PPM_PARAM_INVALID_INIT The parameter "uiMaxPPMRtc1" and/or "uiMaxPPMRtc2" of PPM_ResourceInit() is invalid.
0xC0110081	TLR_E_PNIO_PPM_PARAM_INVALID_CLASS The requested RTC-class is invalid in PPM_Init_req().
0xC0110082	TLR_E_PNIO_PPM_RESOURCE_LIMIT_EXCEEDED The requested amount of PPM protocol machines is higher than the highest possible value.
0xC0110084	TLR_E_PNIO_PPM_HANDLE_INVALID The handle to PPM protocol machine is invalid.
0xC0110085	TLR_E_PNIO_PPM_STATE_INVALID The state of PPM protocol machine is incorrect for current request.
0xC0110086	TLR_E_PNIO_PPM_PHASE_LIMIT_EXCEEDED Invalid phase found in Init-request-packet in PPM_Init_req() or in ACP_PhasePPMAdd_req() or ACP_PhasePPMRemove_req().
0xC0110087	TLR_E_PNIO_PPM_SEND_CLOCK_LIMIT_EXCEEDED The SendClock-factor in PPMs Init-request-packet does not match the one in ACP_Tasks' resources.
0xC0110089	TLR_E_PNIO_PPM_DATALEN_LIMIT_EXCEEDED Packet size to send is too big. Error is detected in PPM_Init_req().

Table 95: Other relevant Error Messages - PROFINET IO-Controller Protocol API 12

28 PROFINET IO RT Device V2 Protocol API

28.1 Status/Error Codes Overview

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0300003	TLR_E_PNS_IF_SET_INIT_IP_FAILED Initialization of PNS IP address failed.
0xC0300004	TLR_E_PNS_IF_PNIO_SETUP_FAILED PROFINET IO-Device Setup failed.
0xC0300005	TLR_E_PNS_IF_DEVICE_INFO_ALREADY_SET Device information set already.
0xC0300006	TLR_E_PNS_IF_SET_DEVICE_INFO_FAILED Setting of device information failed.
0xC0300007	TLR_E_PNS_IF_NO_DEVICE_SETUP PROFINET IO-Device stack is not initialized. Send <i>PNS_IF_SET_DEVICEINFO_CNF</i> before <i>PNS_IF_CFG_OPEN_DEVICE_CNF</i> .
0xC0300008	TLR_E_PNS_IF_DEVICE_OPEN_FAILED Opening a device instance failed.
0xC0300009	TLR_E_PNS_IF_NO_DEVICE_INSTANCE No device instance open.
0xC030000A	TLR_E_PNS_IF_PLUG_MODULE_FAILED Plugging a module failed.
0xC030000B	TLR_E_PNS_IF_PLUG_SUBMODULE_FAILED Plugging a submodule failed.
0xC030000C	TLR_E_PNS_IF_DEVICE_START_FAILED Start of PROFINET IO-Device failed.
0xC030000D	TLR_E_PNS_IF_EDD_ENABLE_FAILED Start of network communication failed.
0xC030000F	TLR_E_PNS_IF_DEVICE_HANDLE_NULL Given device handle is NULL.
0xC0300011	TLR_E_PNS_IF_SET_DEVSTATE_FAILED Command <i>PNS_IF_SET_DEVSTATE_CNF</i> failed.
0xC0300012	TLR_E_PNS_IF_PULL_SUBMODULE_FAILED Pulling the submodule failed.
0xC0300013	TLR_E_PNS_IF_PULL_MODULE_FAILED Pulling the module failed.
0xC0300014	TLR_E_PNS_IF_WRONG_DEST_ID Destination ID in command invalid.
0xC0300015	TLR_E_PNS_IF_DEVICE_HANDLE_INVALID Device Handle in command invalid.
0xC0300016	TLR_E_PNS_IF_CALLBACK_TIMEOUT

Hexadecimal Value	Definition Description
	PNS stack call-back timeout.
0xC0300017	TLR_E_PNS_IF_PACKET_POOL_EMPTY PNS_IF packet pool empty.
0xC0300018	TLR_E_PNS_IF_CFG_ADD_API_FAILED Command <i>PNS_IF_CFG_ADD_API_CNF</i> failed.
0xC0300019	TLR_E_PNS_IF_SET_SUB_STATE_FAILED Setting submodule state failed.
0xC030001A	TLR_E_PNS_NO_NW_DBM_ERROR No network configuration DBM-file.
0xC030001B	TLR_E_PNS_IF_NW_SETUP_TABLE_ERROR Error during reading the "SETUP" table of the network configuration DBM-file .
0xC030001D	TLR_E_PNS_NO_CFG_DBM_ERROR No PNIO configuration DBM-file.
0xC0300023	TLR_E_PNS_IF_PNIO_SETUP_ERROR Error setting up PNIO configuration(PNIO_setup()).
0xC0300024	TLR_E_PNS_MODULES_GET_REC Error getting record of "MODULES" linked table.
0xC0300025	TLR_E_PNS_SUBMODULES_GET_REC Error getting record of "SUBMODULES" linked table.
0xC0300026	TLR_E_PNS_IF_PNS_MODULE_ID_TABLE_ERROR Error accessing "PNS_MODULE_ID" table or table record error.
0xC030002A	TLR_E_PNS_IF_WRITE_DBM Error writing DBM-file.
0xC030002B	TLR_E_PNS_IF_DPM_CONFIG No basic DPM configuration.
0xC030002C	TLR_E_PNS_IF_WATCHDOG Application did not trigger the watchdog.
0xC030002E	TLR_E_PNS_IF_READ_DPM_SUBAREA Failed to read DPM sub area.
0xC030002F	TLR_E_PNS_IF_MOD_0_SUB_1 Module 0 may only have submodule 1. And the data length should be 0.
0xC0300031	TLR_E_PNS_IF_SUB_TRANSFER_DIRECTION A submodule cannot have input and outputs at the same time.
0xC0300032	TLR_E_PNS_IF_FORMAT_PNVOLUME Error while formatting PNVOLUME.
0xC0300033	TLR_E_PNS_IF_MOUNT_PNVOLUME Error while mounting PNVOLUME.
0xC0300034	TLR_E_PNS_IF_INIT_REMOTE Error during initialization of the remote resources of the stack.
0xC0300035	TLR_E_PNS_IF_WARMSTART_CONFIG_REDUNDANT Warmstart parameters are redundant. The stack was configured with DBM or packets.

Hexadecimal Value	Definition Description
0xC0300036	TLR_E_PNS_IF_WARMSTART_PARAMETER Incorrect warmstart parameter(s).
0xC0300037	TLR_E_PNS_IF_SET_APPL_STATE_READY PNIO_set_appl_state_ready() returns error.
0xC0300038	TLR_E_PNS_IF_SET_DEV_STATE PNIO_set_dev_state() returns error.
0xC0300039	TLR_E_PNS_IF_PROCESS_ALARM_SEND PNIO_process_alarm_send() returns error.
0xC030003A	TLR_E_PNS_IF_RET_OF_SUB_ALARM_SEND PNIO_ret_of_sub_alarm_send() returns error.
0xC030003B	TLR_E_PNS_IF_DIAG_ALARM_SEND PNIO_diag_alarm_send() returns error.
0xC030003C	TLR_E_PNS_IF_PNIO_DIAG_GENERIC_ADD PNIO_diag_generic_add() returns error.
0xC030003D	TLR_E_PNS_IF_DIAG_GENERIC_REMOVE PNIO_diag_generic_remove() returns error.
0xC030003E	TLR_E_PNS_IF_DIAG_CHANNEL_ADD PNIO_diag_channel_add() returns error.
0xC030003F	TLR_E_PNS_IF_DIAG_CHANNEL_REMOVE PNIO_diag_channel_remove() returns error.
0xC0300040	TLR_E_PNS_IF_EXT_DIAG_CHANNEL_ADD PNIO_ext_diag_channel_add() returns error.
0xC0300041	TLR_E_PNS_IF_EXT_DIAG_CHANNEL_REMOVE PNIO_ext_diag_channel_remove() returns error.
0xC0300042	TLR_E_PNS_IF_STATION_NAME_LEN Parameter station name length is incorrect.
0xC0300043	TLR_E_PNS_IF_STATION_NAME Parameter station name is incorrect.
0xC0300044	TLR_E_PNS_IF_STATION_TYPE_LEN Parameter station type length is incorrect.
0xC0300045	TLR_E_PNS_IF_DEVICE_TYPE Parameter device type is incorrect.
0xC0300046	TLR_E_PNS_IF_ORDER_ID Parameter order id is incorrect.
0xC0300047	TLR_E_PNS_IF_INPUT_STATUS Parameter input data status bytes length is incorrect.
0xC0300048	TLR_E_PNS_IF_OUTPUT_STATUS Parameter output data status bytes length is incorrect.
0xC0300049	TLR_E_PNS_IF_WATCHDOG_PARAMETER Parameter watchdog timing is incorrect (must be < 0xFFFF).
0xC030004A	TLR_E_PNS_IF_OUT_UPDATE

Hexadecimal Value	Definition Description
	Parameter output data update timing is incorrect.
0xC030004B	TLR_E_PNS_IF_IN_UPDATE Parameter input data update timing is incorrect.
0xC030004C	TLR_E_PNS_IF_IN_SIZE Parameter input memory area size is incorrect.
0xC030004D	TLR_E_PNS_IF_OUT_SIZE Parameter output memory area size is incorrect.
0xC030004E	TLR_E_PNS_IF_GLOBAL_RESOURCES Unable to allocate memory for global access to local resources.
0xC030004F	PNS_IF_DYNAMIC_CFG_PCK Unable to allocate memory for dynamic configuration packet.
0xC0300050	TLR_E_PNS_IF_DEVICE_STOP Unable to stop device.
0xC0300051)	TLR_E_PNS_IF_DEVICE_ID Parameter device id is incorrect.
0xC0300052	TLR_E_PNS_IF_VENDOR_ID Parameter vendor id is incorrect.
0xC0300053	TLR_E_PNS_IF_SYS_START Parameter system start is incorrect.
0xC0300054	TLR_E_PNS_IF_DYN_CFG_IO_LENGTH The length of IO data expected by the controller exceeds the limit specified in warmstart parameters.
0xC0300055	TLR_E_PNS_IF_DYN_CFG_MOD_NUM The count of the IO modules expected by the controller exceeds the supported by the stack count.
0xC0300056	TLR_E_PNS_IF_ACCESS_LOCAL_RSC No global access to local resources.
0xC0300057	TLR_E_PNS_IF_PULL_PLUG Plugging and pulling modules during creation of communication is not allowed.
0xC0300058)	TLR_E_PNS_IF_AR_NUM Maximum number of ARs is 1.
0xC0300059	TLR_E_PNS_IF_API_NUM Only API = 0 is supported.
0xC030005A	TLR_E_PNS_IF_ALREADY_OPEN Device is already opened.
0xC030005B	TLR_E_PNS_IF_API_ADDED Application is already added.
0xC030005C	TLR_E_PNS_IF_CONFIG_MODE Configuration modes should not be mixed(DBM-files,application,warmstart message).
0xC030005D	TLR_E_PNS_IF_UNK_LED_MODE Unknown LED mode.
0xC030005E	TLR_E_PNS_IF_PHYSICAL_LINK

Hexadecimal Value	Definition Description
	Physical link is less then 100 Mbit.
0xC030005F	TLR_E_PNS_IF_MAX_SLOT_SUBSLOT Number of slots or subslots too big.
0xC0300077	TLR_E_PNS_IF_INIT_WATCHDOG Watchdog initialization failed.
0xC0300079	TLR_DPM_CYCLIC_IO_RW Failed to copy from/ to DPM the cyclic data.
0xC030007A	TLR_E_PNS_IF_SUBMODULE Wrong submodule number.
0xC030007B	TLR_E_PNS_IF_MODULE Wrong module number.
0xC030007C	TLR_E_PNS_IF_NO_AR The AR was closed or the AR handle is not valid.
0xC030007D	PNS_IF_WRITE_REC_RES_TIMEOUT The timeout while waiting a response to write_record_indication has been reached
0xC030007E	PNS_IF_UNREGISTERED_SENDER The sender of the request in not registered with request PNS_IF_REGISTER_AP_CNF
0xC030007F	TLR_E_PNS_IF_RECORD_HANDLE_INVALID Unknown record handle
0xC0300080	TLR_E_PNS_IF_REGISTER_AP Error during processing request PNS_IF_REGISTER_AP_CNF
0xC0300081	TLR_E_PNS_IF_UNREGISTER_AP Error during processing request PNS_IF_UNREGISTER_AP_CNF
0xC0300082	TLR_E_PNS_IF_CONFIG_DIFFER The Must-configuration differs from Is-configuration.
0xC0300083	TLR_E_PNS_IF_NO_COMMUNICATION No communication processing.
0xC0300085	TLR_E_PNS_IF_AREA_OVERFLOW Input or Output data requires more space then available.
0xC0300086	TLR_E_PNS_IF_WRM_PCK_SAVE Saving Warmstart Configuration for later use was not successful.
0xC0300090	TLR_E_PNS_IF_PACKET_MNGMNT Packet management error.
0xC0300091	TLR_E_PNS_IF_WRONG_API_NUM Wrong API number.
0xC0300092	TLR_E_PNS_IF_WRONG_MODULE_ID A wrong module ID has been specified.
0xC0300093	TLR_E_PNS_IF_WRONG_MODULE_NUM A wrong module number has been specified.
0xC0300094	TLR_E_PNS_IF_UNNS_AREA Area not large enough

Hexadecimal Value	Definition Description
0xC0300095	TLR_E_PNS_IF_WRONG_SUB_ID A wrong submodule ID has been specified.
0xC0300096	TLR_E_PNS_IF_WRONG_SUBMODULE_NUM A wrong submodule number has been specified.
0xC0300097	TLR_E_PNS_IF_DEVICE_STOP_FAILED Stopping the device failed.
0xC0300098	TLR_E_PNS_IF_EDD_DISABLE_FAILED Disabling EDD failed
0xC030009C	TLR_E_PNS_IF_WRONG_MODULE_ADDRESS Wrong module address
0xC030009D	TLR_E_PNS_IF_UNK_DEVICE_STATE Unknown device state
0xC030009E	TLR_E_PNS_IF_ALARM_DATA_LEN Incorrect length of Alarm data.
0xC030009F	TLR_E_PNS_IF_UNK_SUBMODULE_STATE Unknown submodule state
0xC03000A0	TLR_E_PNS_IF_BAD_DIAG_HANDLE A bad diagnostic handle has been used. Check for correctness!
0xC03000A1	TLR_E_PNS_IF_UNSTRUCT_ID Error in UNS structure ID
0xC03000A2	TLR_E_PNS_IF_UNK_ALARM_STATE Unknown alarm state
0xC03000A3	TLR_E_PNS_IF_DIAG_DATA_LEN Incorrect length of diagnostic data
0xC03000A4	TLR_E_PNS_IF_BAD_CHANNEL_ERR_TYPE Bad channel error type
0xC03000A6	TLR_E_PNS_IF_BAD_CHANNEL_NUM Bad channel number
0xC03000A7	TLR_E_PNS_IF_RCX_RESTART A restart of rcX has been caused
0xC03000A8	TLR_E_PNS_IF_CFG_MNGMNT Error in configuration management
0xC03000A9	TLR_E_PNS_IF_UNK_INTERN_REQ Unknown internal error
0xC03000AA	TLR_E_PNS_IF_CFG_STORE Error while storing configuration data
0xC03000AB	TLR_E_PNS_IF_CFG_DELETE_FAILED Deleting the configuration failed.
0xC03000AE	TLR_E_PNS_IF_ACCESS_BCKUP_VOLUME Error in accessing backup volume
0xC03000AF	TLR_E_PNS_IF_CFG_BAD_LEN

Hexadecimal Value	Definition Description
	Bad length of configuration data.
0xC03000B1	TLR_E_PNS_IF_RESET_FACTORY_IND No registered application. Reset to factory settings Indication failed.
0xC03000B2	TLR_E_PNS_IF_MODULE_ALREADY_PLUGGED A module was already plugged to the slot.
0xC03000B3	TLR_E_PNS_IF_OSINIT Failed to init the OS adaptation layer.
0xC03000B4	TLR_E_PNS_IF_OSSOCKINIT Failed to init the TCPIP adaptation layer.
0xC03000B7	TLR_E_PNS_IF_STA_STARTUP_PARAMETER Erroneous Task start-up parameters.
0xC03000B8	TLR_E_PNS_IF_INIT_LOCAL Error during initialization of the Task local resources.
0xC03000B9	TLR_E_PNS_IF_APP_CONFIG_INCOMPLETE The configuration per packets is incomplete.
0xC03000BA	TLR_E_PNS_IF_INIT_EDD EDD Initialization failed.
0xC03000BB	TLR_E_PNS_IF_DPM_NOT_ENABLED DPM is not enabled.
0xC03000BC	TLR_E_PNS_IF_READ_LINK_STATUS Reading Link Status failed.
0xC0300100	TLR_E_PNS_IF_PACKET_SEND_FAILED Error while sending a packet to another task.
0xC0300101	TLR_E_PNS_IF_RESOURCE_OUT_OF_MEMORY Insufficient memory to handle the request.
0xC0300102	TLR_E_PNS_IF_NO_APPLICATION_REGISTERED No application to send the indication to is registered.
0xC0300103	TLR_E_PNS_IF_INVALID_SOURCE_ID The host-application returned a packet with invalid (changed) SourceID.
0xC0300104	TLR_E_PNS_IF_PACKET_BUFFER_FULL The buffer used to store packets exchanged between host-application and stack is full.
0xC0300105	TLR_E_PNS_IF_PULL_NO_MODULE Pulling the (sub)module failed because no module is plugged into the slot specified.
0xC0300106	TLR_E_PNS_IF_PULL_NO_SUBMODULE Pulling the submodule failed because no submodule is plugged into the subslot specified.
0xC0300107	TLR_E_PNS_IF_PACKET_BUFFER_RESTORE_ERROR The packet buffer storing packets exchanged between host-application and stack returned an invalid packet.
0xC0300108	TLR_E_PNS_IF_DIAG_NO_MODULE Diagnosis data not accepted because no module is plugged into the slot specified.
0xC0300109	TLR_E_PNS_IF_DIAG_NO_SUBMODULE Diagnosis data not accepted because no submodule is plugged into the subslot specified.

Hexadecimal Value	Definition Description
0xC030010A	TLR_E_PNS_IF_CYCLIC_EXCHANGE_ACTIVE The services requested is not available while cyclic communication is running.
0xC030010B	TLR_E_PNS_IF_FATAL_ERROR_CLB_ALREADY_REGISTERED This fatal error callback function could not be registered because there is already a function registered.
0xC030010C	TLR_E_PNS_IF_ERROR_STACK_WARMSTART_CONFIGURATION The stack did not accept the warmstart parameters.
0xC030010D	TLR_E_PNS_IF_ERROR_STACK_MODULE_CONFIGURATION The stack did not accept the module configuration packet.
0xC030010E	TLR_E_PNS_IF_CHECK_IND_FOR_UNEXPECTED_MODULE The stack sent a Check Indication for an unexpected module. This module was not part of the CR Info Indication.
0xC030010F	TLR_E_PNS_IF_CHECK_IND_FOR_UNEXPECTED_SUBMODULE The stack sent a Check Indication for an unexpected submodule. This submodule was not part of the CR Info Indication.
0xC0300110	TLR_E_PNS_DIAG_BUFFER_FULL No more diagnosis records can be added to the stack because the maximum amount is already reached.
0xC0300111	TLR_E_PNS_IF_CHECK_IND_FOR_UNEXPECTED_API The stack sent a Check Indication for an unexpected API. This API was not part of the CR Info Indication.
0xC0300112	TLR_E_PNS_IF_DPM_ACCESS_WITH_INVALID_OFFSET The DPM shall be accessed with an invalid data offset.
0xC0300113	TLR_E_PNS_IF_DUPLICATE_INPUT_CR_INFO The stack indicated to CR Info Indications with type input.
0xC0300114	TLR_E_PNS_IF_DUPLICATE_OUTPUT_CR_INFO The stack indicated to CR Info Indications with type output.
0xC0300115	TLR_E_PNS_IF_FAULTY_CR_INFO_IND_RECEIVED The stack indicated a faulty CR Info Indications.
0xC0300116	TLR_E_PNS_IF_CONFIG_RELOAD_RUNNING The request can not be executed because configuration reload respectively Channellnit is running.
0xC0300117	TLR_E_PNS_IF_NO_MAC_ADDRESS_SET There is no valid chassis MAC address set Without MAC address the stack will not work.
0xC0300118	TLR_E_PNS_IF_SET_PORT_MAC_NOT_POSSIBLE The Port MAC addresses have to be set before sending Set-Configuration Request to the stack.
0xC030011A	TLR_E_PNS_IF_INVALID_MODULE_CONFIGURATION Evaluating the module configuration failed.
0xC030011B	TLR_E_PNS_IF_CONF_IO_LEN_TO_BIG The sum of IO-data length exceeds the maximum allowed value.
0xC030011C	TLR_E_PNS_IF_NO_MODULE_CONFIGURED The module configuration does not contain at least one module.
0xC030011D	TLR_E_PNS_IF_INVALID_SW_REV_PREFIX The value of bSwRevisionPrefix is invalid.

Hexadecimal Value	Definition Description
0xC030011E	TLR_E_PNS_IF_RESERVED_VALUE_NOT_ZERO The value of usReserved is not zero.
0xC030011F	TLR_E_PNS_IF_IDENTIFY_CMDEV_QUEUE_FAILED Identifying the stack message queue CMDEV failed.
0xC0300120	TLR_E_PNS_IF_CREATE_SYNC_QUEUE_FAILED Creating the sync message queue failed.
0xC0300121	TLR_E_PNS_IF_CREATE_ALARM_LOW_QUEUE_FAILED Creating the low alarm message queue failed.
0xC0300122	TLR_E_PNS_IF_CREATE_ALARM_HIGH_QUEUE_FAILED Creating the high alarm message queue failed.
0xC0300123	TLR_E_PNS_IF_CFG_PACKET_TO_SMALL While evaluating SetConfiguration packet the packet length was found smaller than amount of configured modules needs.
0xC0300124	TLR_E_PNS_IF_FATAL_ERROR_OCCURRED A fatal error occurred prior to this request. Therefore this request can not be fulfilled.
0xC0300A03	TLR_E_PNS_IF_CM_AR_REASON_MEM Out of memory
0xC0300A04	TLR_E_PNS_IF_CM_AR_REASON_FRAME Add provider or consumer failed
0xC0300A05	TLR_E_PNS_IF_CM_AR_REASON_MISS Missing consumer
0xC0300A06	TLR_E_PNS_IF_CM_AR_REASON_TIMER CMI timeout
0xC0300A07	TLR_E_PNS_IF_CM_AR_REASON_ALARM Alarm-open failed
0xC0300A08	TLR_E_PNS_IF_CM_AR_REASON_ALSND Alarm-send.cnf(-)
0xC0300A09	TLR_E_PNS_IF_CM_AR_REASON_ALACK Alarm-ack-send.cnf(-)
0xC0300A010	TLR_E_PNS_IF_CM_AR_REASON_ALLEN Alarm-data too long
0xC0300A011	TLR_E_PNS_IF_CM_AR_REASON_ASRT Alarm.ind(err)
0xC0300A012	TLR_E_PNS_IF_CM_AR_REASON_RPC RPC-client call.cnf(-)
0xC0300A013	TLR_E_PNS_IF_CM_AR_REASON_ABORT AR-abort.req
0xC0300A014	TLR_E_PNS_IF_CM_AR_REASON_RERUN Rerun aborts existing
0xC0300A015	TLR_E_PNS_IF_CM_AR_REASON_REL Got release.ind
0xC0300A016	TLR_E_PNS_IF_CM_AR_REASON_PAS

Hexadecimal Value	Definition Description
	Device passivated
0xC0300A017	TLR_E_PNS_IF_CM_AR_REASON_RMV Device / AR removed
0xC0300A018	TLR_E_PNS_IF_CM_AR_REASON_PROT Protocol violation
0xC0300A019	TLR_E_PNS_IF_CM_AR_REASON_NARE NARE error
0xC0300A020	TLR_E_PNS_IF_CM_AR_REASON_BIND RPC-Bind error
0xC0300A021	TLR_E_PNS_IF_CM_AR_REASON_CONNECT RPC-Connect error
0xC0300A022	TLR_E_PNS_IF_CM_AR_REASON_READ RPC-Read error
0xC0300A023	TLR_E_PNS_IF_CM_AR_REASON_WRITE RPC-Write error
0xC0300A024	TLR_E_PNS_IF_CM_AR_REASON_CONTROL RPC-Control error
0xC0300A025	TLR_E_PNS_IF_CM_AR_REASON_PULLPLUG Forbidden pull or plug after check.rsp and before in-data.ind
0xC0300A026	TLR_E_PNS_IF_CM_AR_REASON_AP_RMV AP removed
0xC0300A027	TLR_E_PNS_IF_CM_AR_REASON_LNK_DWN Link "down"
0xC0300A028	TLR_E_PNS_IF_CM_AR_REASON_MMAC Could not register multicast-mac
0xC0300A029	TLR_E_PNS_IF_CM_AR_REASON_SYNC Not synchronized (cannot start companion-ar)
0xC0300A030	TLR_E_PNS_IF_CM_AR_REASON_TOPO Wrong topology (cannot start companion-ar)
0xC0300A031	TLR_E_PNS_IF_CM_AR_REASON_DCP_NAME DCP, station-name changed
0xC0300A032	TLR_E_PNS_IF_CM_AR_REASON_DCP_RESET DCP, reset to factory-settings
0xC0300A033	TLR_E_PNS_IF_CM_AR_REASON_PRM Cannot start companion-AR because a 0x8ipp submodule in the first AR
0xC0300A034	TLR_E_PNS_IF_CM_AR_REASON_IRDATA No irdata record yet
0xC0300A035	TLR_E_PNS_IF_CM_AR_REASON_PDEV Ownership of physical device
0xC0300B00	TLR_E_PNS_IF_ALARM_QUE_FULL Alarm queue is full, more than 100 alarms are pending

Hexadecimal Value	Definition Description
	Mantis entry #0004881: Wird bei über 100 wartenden Alarmen ausgelöst!

Table 96: Status/Error Codes Overview - PROFINET IO RT Device V2 Protocol API 14

The following messages have been replaced by others:

Definition Hexadecimal Value	Description	Definition
TLR_E_PNS_IF_COMMAND_INVALID (0xC0300001L)	Invalid command.	TLR_E_UNKNOWN_COMMAND
TLR_E_PNS_IF_ALLOC_MNGMNT_BUFFER_FAILED (0xC030000EL)	Allocation of a device instance management buffer failed.	TLR_E_OUTOFMEMORY
TLR_E_PNS_IF_NO_PHYSICAL_LINK (0xC0300078L)	The device is not connected to a network.	RCX_E_CABLE_DISCONNECT
TLR_E_PNS_IF_PHYSICAL_LINK (0xC030005EL)	Physical link is less then 100 MBit.	RCX_E_NETWORK_FAULT
TLR_E_PNS_IF_DEVICE_HANDLE_INVALID (0xC0300015L)	Device Handle in command invalid.	TLR_E_UNKNOWN_HANDLE

Table 97: Changed Status/Error Codes - PROFINET IO RT Device V2 Protocol API 14

29 PROFINET IO RT IRT Device V3 Protocol API

29.1 General Errors

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok.
0xC0300001	TLR_E_PNS_IF_COMMAND_INVALID Invalid command.
0xC0300002	TLR_E_PNS_IF_OS_INIT_FAILED Initialization of PNS Operating system adaptation failed.
0xC0300003	TLR_E_PNS_IF_SET_INIT_IP_FAILED Initialization of PNS IP address failed.
0xC0300004	TLR_E_PNS_IF_PNIO_SETUP_FAILED PROFINET IO-Device Setup failed.
0xC0300005	TLR_E_PNS_IF_DEVICE_INFO_ALREADY_SET Device information set already.
0xC0300006	TLR_E_PNS_IF_SET_DEVICE_INFO_FAILED Setting of device information failed.
0xC0300007	TLR_E_PNS_IF_NO_DEVICE_SETUP PROFINET IO-Device stack is not initialized. Send <i>PNS_IF_SET_DEVICEINFO_REQ</i> before <i>PNS_IF_OPEN_DEVICE_REQ</i> .
0xC0300008	TLR_E_PNS_IF_DEVICE_OPEN_FAILED Opening a device instance failed.
0xC0300009	TLR_E_PNS_IF_NO_DEVICE_INSTANCE No device instance open.
0xC030000A	TLR_E_PNS_IF_PLUG_MODULE_FAILED Plugging a module failed.
0xC030000B	TLR_E_PNS_IF_PLUG_SUBMODULE_FAILED Plugging a submodule failed.
0xC030000C	TLR_E_PNS_IF_DEVICE_START_FAILED Start of PROFINET IO-Device failed.
0xC030000D	TLR_E_PNS_IF_EDD_ENABLE_FAILED Start of network communication failed.
0xC030000E	TLR_E_PNS_IF_ALLOC_MNGMNT_BUFFER_FAILED Allocation of a device instance management buffer failed.
0xC030000F	TLR_E_PNS_IF_DEVICE_HANDLE_NULL Given device handle is NULL.
0xC0300010	TLR_E_PNS_IF_SET_APPL_READY_FAILED Command <i>PNS_IF_SET_APPL_READY_REQ</i> failed.
0xC0300011	TLR_E_PNS_IF_SET_DEVSTATE_FAILED Command <i>PNS_IF_SET_DEVSTATE_REQ</i> failed.
0xC0300012	TLR_E_PNS_IF_PULL_SUBMODULE_FAILED Pulling the submodule failed.
0xC0300013	TLR_E_PNS_IF_PULL_MODULE_FAILED Pulling the module failed.
0xC0300014	TLR_E_PNS_IF_WRONG_DEST_ID Destination ID in command invalid.

Hexadecimal Value	Definition Description
0xC0300015	TLR_E_PNS_IF_DEVICE_HANDLE_INVALID Device Handle in command invalid.
0xC0300016	TLR_E_PNS_IF_CALLBACK_TIMEOUT PNS stack callback timeout.
0xC0300017	TLR_E_PNS_IF_PACKET_POOL_EMPTY PNS_IF packet pool empty.
0xC0300018	TLR_E_PNS_IF_ADD_API_FAILED Command PNS_IF_ADD_API_REQ failed.
0xC0300019	TLR_E_PNS_IF_SET_SUB_STATE_FAILED Setting submodule state failed.
0xC030001A	TLR_E_PNS_IF_NO_NW_DBM_ERROR No network configuration DBM-file.
0xC030001B	TLR_E_PNS_IF_NW_SETUP_TABLE_ERROR Error during reading the "SETUP" table of the network configuration DBM-file .
0xC030001C	TLR_E_PNS_IF_CFG_SETUP_TABLE_ERROR Error during reading the "SETUP" table of the config.xxx DBM-file .
0xC030001D	TLR_E_PNS_IF_NO_CFG_DBM_ERROR No config.xxx DBM-file.
0xC030001E	TLR_E_PNS_IF_DBM_DATASET_ERROR Error getting dataset pointer.
0xC030001F	TLR_E_PNS_IF_SETUPEX_TABLE_ERROR Error getting dataset pointer(<i>SETUP_EX</i> table).
0xC0300020	TLR_E_PNS_IF_AP_TABLE_ERROR Error getting either dataset pointer or number of datasets(<i>AP</i> table).
0xC0300021	TLR_E_PNS_IF_MODULES_TABLE_ERROR Error getting either dataset pointer or number of datasets(<i>MODULE</i> table).
0xC0300022	TLR_E_PNS_IF_SUBMODULES_TABLE_ERROR Error getting either dataset pointer or number of datasets(<i>SUBMODULE</i> table).
0xC0300023	TLR_E_PNS_IF_PNIO_SETUP_ERROR Error setting up PNIO configuration(PNIO_setup()).
0xC0300024	TLR_E_PNS_IF_MODULES_GET_REC Error getting record of " <i>MODULES</i> " linked table.
0xC0300025	TLR_E_PNS_IF_SUBMODULES_GET_REC Error getting record of " <i>SUBMODULES</i> " linked table.
0xC0300026	TLR_E_PNS_IF_PNIOD_MODULE_ID_TABLE_ERROR Error accessing " <i>PNIOD_MODULE_ID</i> " table or table record error.
0xC0300027	TLR_E_PNS_IF_SIGNALS_TABLE_ERROR Error accessing " <i>SIGNALS</i> " table or table record error.
0xC0300028	TLR_E_PNS_IF_MODULES_IO_TABLE_ERROR Error accessing " <i>MODULES_IO</i> " table or table record error.
0xC0300029	TLR_E_PNS_IF_CHANNEL_SETTING_TABLE_ERROR Error accessing " <i>CHANNEL_SETTING</i> " table or table record error.
0xC030002A	TLR_E_PNS_IF_WRITE_DBM Error writing DBM-file.
0xC030002B	TLR_E_PNS_IF_DPM_CONFIG No basic DPM configuration.

Hexadecimal Value	Definition Description
0xC030002C	TLR_E_PNS_IF_WATCHDOG Application did not trigger the watchdog.
0xC030002D	TLR_E_PNS_IF_SIGNALS_SUBMODULES Data length in "SIGNALS" table does not correspond to that in "SUBMODULES" table.
0xC030002E	TLR_E_PNS_IF_READ_DPM_SUBAREA Failed to read DPM subarea.
0xC030002F	TLR_E_PNS_IF_MOD_0_SUB_1 Error configuring Module 0 Submodule 1.
0xC0300030	TLR_E_PNS_IF_SIGNALS_LENGTH Length of I/O signals is bigger then the size of DPM subarea.
0xC0300031	TLR_E_PNS_IF_SUB_TRANSFER_DIRECTION A submodule cannot have input and outputs at the same time.
0xC0300032	TLR_E_PNS_IF_FORMAT_PNVOLUME Error while formatting PNVOLUME.
0xC0300033	TLR_E_PNS_IF_MOUNT_PNVOLUME Error while mounting PNVOLUME.
0xC0300034	TLR_E_PNS_IF_INIT_REMOTE Error during initialization of the remote resources of the stack.
0xC0300035	TLR_E_PNS_IF_WARMSTART_CONFIG_REDUNDANT Warmstart parameters are redundant. The stack was configured with DBM or packets.
0xC0300036	TLR_E_PNS_IF_WARMSTART_PARAMETER Incorrect warmstart parameter(s).
0xC0300037	TLR_E_PNS_IF_SET_APPL_STATE_READY <i>PNIO_set_appl_state_ready()</i> returns error.
0xC0300038	TLR_E_PNS_IF_SET_DEV_STATE <i>PNIO_set_dev_state()</i> returns error.
0xC0300039	TLR_E_PNS_IF_PROCESS_ALARM_SEND <i>PNIO_process_alarm_send()</i> returns error.
0xC030003A	TLR_E_PNS_IF_RET_OF_SUB_ALARM_SEND <i>PNIO_ret_of_sub_alarm_send()</i> returns error.
0xC030003B	TLR_E_PNS_IF_DIAG_ALARM_SEND <i>PNIO_diag_alarm_send()</i> returns error.
0xC030003C	TLR_E_PNS_IF_DIAG_GENERIC_ADD <i>PNIO_diag_generic_add()</i> returns error.
0xC030003D	TLR_E_PNS_IF_DIAG_GENERIC_REMOVE <i>PNIO_diag_generic_remove()</i> returns error.
0xC030003E	TLR_E_PNS_IF_DIAG_CHANNEL_ADD <i>PNIO_diag_channel_add()</i> returns error.
0xC030003F	TLR_E_PNS_IF_DIAG_CHANNEL_REMOVE <i>PNIO_diag_channel_remove()</i> returns error.
0xC0300040	TLR_E_PNS_IF_EXT_DIAG_CHANNEL_ADD <i>PNIO_ext_diag_channel_add()</i> returns error.
0xC0300041	TLR_E_PNS_IF_EXT_DIAG_CHANNEL_REMOVE <i>PNIO_ext_diag_channel_remove()</i> returns error.
0xC0300042	TLR_E_PNS_IF_STATION_NAME_LEN Parameter station name length is incorrect.

Hexadecimal Value	Definition Description
0xC0300043	TLR_E_PNS_IF_STATION_NAME Parameter station name is incorrect.
0xC0300044	TLR_E_PNS_IF_STATION_TYPE_LEN Parameter station type length is incorrect.
0xC0300045	TLR_E_PNS_IF_DEVICE_TYPE Parameter device type is incorrect.
0xC0300046	TLR_E_PNS_IF_ORDER_ID Parameter order id is incorrect.
0xC0300047	TLR_E_PNS_IF_INPUT_STATUS Parameter input data status bytes length is incorrect.
0xC0300048	TLR_E_PNS_IF_OUTPUT_STATUS Parameter output data status bytes length is incorrect.
0xC0300049	TLR_E_PNS_IF_WATCHDOG_PARAMETER Parameter watchdog timing is incorrect(must be >= 10).
0xC030004A	TLR_E_PNS_IF_OUT_UPDATE Parameter output data update timing is incorrect.
0xC030004B	TLR_E_PNS_IF_IN_UPDATE Parameter input data update timing is incorrect.
0xC030004C	TLR_E_PNS_IF_IN_SIZE Parameter input memory area size is incorrect.
0xC030004D	TLR_E_PNS_IF_OUT_SIZE Parameter output memory area size is incorrect.
0xC030004E	TLR_E_PNS_IF_GLOBAL_RESOURCES Unable to allocate memory for global access to local resources.
0xC030004F	TLR_E_PNS_IF_DYNAMIC_CFG_PCK Unable to allocate memory for dynamic configuration packet.
0xC0300050	TLR_E_PNS_IF_DEVICE_STOP Unable to stop device.
0xC0300051	TLR_E_PNS_IF_DEVICE_ID Parameter device id is incorrect.
0xC0300052	TLR_E_PNS_IF_VENDOR_ID Parameter vendor id is incorrect.
0xC0300053	TLR_E_PNS_IF_SYS_START Parameter system start is incorrect.
0xC0300054	TLR_E_PNS_IF_DYN_CFG_IO_LENGTH The length of IO data expected by the controller exceeds the limit specified in warmstart parameters.
0xC0300055	TLR_E_PNS_IF_DYN_CFG_MOD_NUM The count of the IO modules expected by the controller exceeds the supported by the stack count.
0xC0300056	TLR_E_PNS_IF_ACCESS_LOCAL_RSC No global access to local resources.
0xC0300057	TLR_E_PNS_IF_PULL_PLUG Plugging and pulling modules during creation of communication is not allowed.
0xC0300058	TLR_E_PNS_IF_AR_NUM Maximum number of ARs is 1.
0xC0300059	TLR_E_PNS_IF_API_NUM Only API = 0 is supported.

Hexadecimal Value	Definition Description
0xC030005A	TLR_E_PNS_IF_ALREADY_OPEN Device is already opened.
0xC030005B	TLR_E_PNS_IF_API_ADDED Application is already added.
0xC030005C	TLR_E_PNS_IF_CONFIG_MODE Configuration modes should not be mixed(DBM-files,application,warmstart message).
0xC030005D	TLR_E_PNS_IF_UNK_LED_MODE Unknown LED mode.
0xC030005E	TLR_E_PNS_IF_PHYSICAL_LINK Physical link rate is less then 100 Mbit.
0xC030005F	TLR_E_PNS_IF_MAX_SLOT_SUBSLOT Number of slots or subslots too big.
0xC0300060	TLR_E_PNS_IF_AR_REASON_MEM AR error. Out of memory.
0xC0300061	TLR_E_PNS_IF_AR_REASON_FRAME AR error. Add provider or consumer failed.
0xC0300062	TLR_E_PNS_IF_AR_REASON_MISS AR error. Consumer missing.
0xC0300063	TLR_E_PNS_IF_AR_REASON_TIMER AR error. CMI timeout.
0xC0300064	TLR_E_PNS_IF_AR_REASON_ALARM AR error. Alarm open failed.
0xC0300065	TLR_E_PNS_IF_AR_REASON_ALSND AR error. Alarm send confirmation failed.
0xC0300066	TLR_E_PNS_IF_AR_REASON_ALACK AR error. Alarm acknowledge send confirmation failed.
0xC0300067	TLR_E_PNS_IF_AR_REASON_ALLEN AR error. Alarm data too long.
0xC0300068	TLR_E_PNS_IF_AR_REASON_ASRT AR error. Alarm indication error.
0xC0300069	TLR_E_PNS_IF_AR_REASON_RPC AR error. RPC client call confirmation failed.
0xC030006A	TLR_E_PNS_IF_AR_REASON_ABORT AR error. Abort request.
0xC030006B	TLR_E_PNS_IF_AR_REASON_RERUN AR error. Re-Run.
0xC030006C	TLR_E_PNS_IF_AR_REASON_REL AR error. Release indication received.
0xC030006D	TLR_E_PNS_IF_AR_REASON_PAS AR error. Device deactivated.
0xC030006E	TLR_E_PNS_IF_AR_REASON_RMV AR error. Device/AR removed.
0xC030006F	TLR_E_PNS_IF_AR_REASON_PROT AR error. Protocol violation.
0xC0300070	TLR_E_PNS_IF_AR_REASON_NARE AR error. NARE error.

Hexadecimal Value	Definition Description
0xC0300071	TLR_E_PNS_IF_AR_REASON_BIND AR error. RPC-Bind error.
0xC0300072	TLR_E_PNS_IF_AR_REASON_CONNECT AR error. RPC-Connect error.
0xC0300073	TLR_E_PNS_IF_AR_REASON_READ AR error. RPC-Read error.
0xC0300074	TLR_E_PNS_IF_AR_REASON_WRITE AR error. RPC-Write error.
0xC0300075	TLR_E_PNS_IF_AR_REASON_CONTROL AR error. RPC-Control error.
0xC0300076	TLR_E_PNS_IF_AR_REASON_UNKNOWN AR error. Unknown.
0xC0300077	TLR_E_PNS_IF_INIT_WATCHDOG Watchdog initialization failed.
0xC0300078	TLR_E_PNS_IF_NO_PHYSICAL_LINK The Device is not connected to a network.
0xC0300079	TLR_DPM_CYCLIC_IO_RW Failed to copy from DPM or to DPM the cyclic IO data.
0xC030007A	TLR_E_PNS_IF_SUBMODULE Submodule number is wrong.
0xC030007B	TLR_E_PNS_IF_MODULE Module number is wrong.
0xC030007C	TLR_E_PNS_IF_NO_AR The AR was closed or the AR handle is not valid.
0xC030007D	TLR_E_PNS_IF_WRITE_REC_RES_TIMEOUT Timeout while waiting for response to write_record_indication.
0xC030007E	TLR_E_PNS_IF_UNREGISTERED_SENDER The sender of the request is not registered with request <i>PNS_IF_REGISTER_AP_REQ</i> .
0xC030007F	TLR_E_PNS_IF_RECORD_HANDLE_INVALID Unknown record handle.
0xC0300080	TLR_E_PNS_IF_REGISTER_AP Another instance is registered at the moment.
0xC0300081	TLR_E_PNS_IF_UNREGISTER_AP One instance can not unregister another one.
0xC0300082	TLR_E_PNS_IF_CONFIG_DIFFER The Must-configuration differs from the Is-configuration.
0xC0300083	TLR_E_PNS_IF_NO_COMMUNICATION No communication processing.
0xC0300084	TLR_E_PNS_IF_BAD_PARAMETER At least one parameter in a packet was wrong or/and did not meet the requirements.
0xC0300085	TLR_E_PNS_IF_AREA_OVERFLOW Input or Output data requires more space than available.
0xC0300086	TLR_E_PNS_IF_WRM_PCK_SAVE Saving Warmstart Configuration for later use was not successful.
0xC0300087	TLR_E_PNS_IF_AR_REASON_PULLPLUG AR error. Pull and Plug are forbidden after check.rsp and before in-data.ind.

Hexadecimal Value	Definition Description
0xC0300088	TLR_E_PNS_IF_AR_REASON_AP_RMV AR error. AP has been removed.
0xC0300089	TLR_E_PNS_IF_AR_REASON_LNK_DWN AR error. Link "down".
0xC030008A	TLR_E_PNS_IF_AR_REASON_MMAC AR error. Could not register multicast-MAC.
0xC030008B	TLR_E_PNS_IF_AR_REASON_SYNC AR error. Not synchronized (Cannot start companion-AR).
0xC030008C	TLR_E_PNS_IF_AR_REASON_TOPO AR error. Wrong topology (Cannot start companion-AR).
0xC030008D	TLR_E_PNS_IF_AR_REASON_DCP_NAME AR error. DCP. Station Name changed.
0xC030008E	TLR_E_PNS_IF_AR_REASON_DCP_RESET AR error. DCP. Reset to factory-settings.
0xC030008F	TLR_E_PNS_IF_AR_REASON_PRM AR error. Cannot start companion-AR because a 0x8ipp submodule in the first AR /has appl-ready-pending/ is locked/ is wrong or pulled/ .
0xC0300090	TLR_E_PNS_IF_PACKET_MNGMNT Packet management error.
0xC03000B1	TLR_E_PNS_IF_RESET_FACTORY_IND A module was already plugged to the slot.
0xC03000B2	TLR_E_PNS_IF_MODULE_ALREADY_PLUGGED Failed to init the OS adaptation layer.
0xC03000B3	TLR_E_PNS_IF_OSINIT Failed to init the TCPIP adaptation layer.
0xC03000B4	TLR_E_PNS_IF_OSSOCKINIT Failed to init the TCPIP adaptation layer.
0xC03000B5	TLR_E_PNS_IF_INVALID_NETMASK Invalid subnetwork mask.
0xC03000B6	TLR_E_PNS_IF_INVALID_IP_ADDR Invalid IP address.
0xC03000B7	TLR_E_PNS_IF_STA_STARTUP_PARAMETER Erroneous Task start-up parameters.
0xC03000B8	TLR_E_PNS_IF_INIT_LOCAL Failed to initialize the Task local resources.
0xC03000B9	TLR_E_PNS_IF_APP_CONFIG_INCOMPLETE The configuration per packets is incomplete.
0xC03000BA	TLR_E_PNS_IF_INIT_EDD EDD Initialization failed.
0xC03000BB	TLR_E_PNS_IF_DPM_NOT_ENABLED DPM is not enabled.
0xC03000BC	TLR_E_PNS_IF_READ_LINK_STATUS Reading Link Status failed.
0xC03000BD	TLR_E_PNS_IF_INVALID_GATEWAY Invalid gateway address (not reachable with configured netmask).
0xC0300100	TLR_E_PNS_IF_PACKET_SEND_FAILED Error while sending a packet to another task.

Hexadecimal Value	Definition Description
0xC0300101	TLR_E_PNS_IF_RESOURCE_OUT_OF_MEMORY Insufficient memory to handle the request.
0xC0300102	TLR_E_PNS_IF_NO_APPLICATION_REGISTERED No application to send the indication to is registered.
0xC0300103	TLR_E_PNS_IF_INVALID_SOURCE_ID The host-application returned a packet with invalid (changed) SourceID.
0xC0300104	TLR_E_PNS_IF_PACKET_BUFFER_FULL The buffer used to store packets exchanged between host-application and stack is full.
0xC0300105	TLR_E_PNS_IF_PULL_NO_MODULE Pulling the (sub)module failed because no module is plugged into the slot specified.
0xC0300106	TLR_E_PNS_IF_PULL_NO_SUBMODULE Pulling the submodule failed because no submodule is plugged into the subslot specified.
0xC0300107	TLR_E_PNS_IF_PACKET_BUFFER_RESTORE_ERROR The packet buffer storing packets exchanged between host-application and stack returned an invalid packet.
0xC0300108	TLR_E_PNS_IF_DIAG_NO_MODULE Diagnosis data not accepted because no module is plugged into the slot specified.
0xC0300109	TLR_E_PNS_IF_DIAG_NO_SUBMODULE Diagnosis data not accepted because no submodule is plugged into the subslot specified.
0xC030010A	TLR_E_PNS_IF_CYCLIC_EXCHANGE_ACTIVE The services requested is not available while cyclic communication is running.
0xC030010B	TLR_E_PNS_IF_FATAL_ERROR_CLB_ALREADY_REGISTERED This fatal error callback function could not be registered because there is already a function registered.
0xC030010C	TLR_E_PNS_IF_ERROR_STACK_WARMSTART_CONFIGURATION The stack did not accept the warmstart parameters.
0xC030010D	TLR_E_PNS_IF_ERROR_STACK_MODULE_CONFIGURATION The stack did not accept the module configuration packet.
0xC030010E	TLR_E_PNS_IF_CHECK_IND_FOR_UNEXPECTED_MODULE The stack sent a Check Indication for an unexpected module. This module was not part of the CR Info Indication.
0xC030010F	TLR_E_PNS_IF_CHECK_IND_FOR_UNEXPECTED_SUBMODULE The stack sent a Check Indication for an unexpected submodule. This submodule was not part of the CR Info Indication.
0xC0300110	TLR_E_PNS_DIAG_BUFFER_FULL No more diagnosis records can be added to the stack because the maximum amount is already reached.
0xC0300111	TLR_E_PNS_IF_CHECK_IND_FOR_UNEXPECTED_API The stack sent a Check Indication for an unexpected API. This API was not part of the CR Info Indication.
0xC0300112	TLR_E_PNS_IF_DPM_ACCESS_WITH_INVALID_OFFSET The DPM shall be accessed with an invalid data offset.
0xC0300113	TLR_E_PNS_IF_DUPLICATE_INPUT_CR_INFO The stack indicated to CR Info Indications with type input.
0xC0300114	TLR_E_PNS_IF_DUPLICATE_OUTPUT_CR_INFO The stack indicated to CR Info Indications with type output.
0xC0300115	TLR_E_PNS_IF_FAULTY_CR_INFO_IND_RECEIVED The stack indicated a faulty CR Info Indications.

Hexadecimal Value	Definition Description
0xC0300116	TLR_E_PNS_IF_CONFIG_RELOAD_RUNNING The request cannot be executed because configuration reload respectively <i>Channellnit</i> is running.
0xC0300117	TLR_E_PNS_IF_NO_MAC_ADDRESS_SET There is no valid chassis MAC address set Without MAC address the stack will not work.
0xC0300118	TLR_E_PNS_IF_SET_PORT_MAC_NOT_POSSIBLE The Port MAC addresses have to be set before sending Set-Configuration Request to the stack.
0xC030011A	TLR_E_PNS_IF_INVALID_MODULE_CONFIGURATION Evaluating the module configuration failed.
0xC030011B	TLR_E_PNS_IF_CONF_IO_LEN_TO_BIG The sum of IO-data length exceeds the maximum allowed value.
0xC030011C	TLR_E_PNS_IF_NO_MODULE_CONFIGURED The module configuration does not contain at least one module.
0xC030011D	TLR_E_PNS_IF_INVALID_SW_REV_PREFIX The value of bSwRevisionPrefix is invalid.
0xC030011E	TLR_E_PNS_IF_RESERVED_VALUE_NOT_ZERO The value of usReserved it not zero.
0xC030011F	TLR_E_PNS_IF_IDENTIFY_CMDEV_QUEUE_FAILED Identifying the stack message queue CMDEV failed.
0xC0300120	TLR_E_PNS_IF_CREATE_SYNC_QUEUE_FAILED Creating the sync message queue failed.
0xC0300121	TLR_E_PNS_IF_CREATE_ALARM_LOW_QUEUE_FAILED Creating the low alarm message queue failed.
0xC0300122	TLR_E_PNS_IF_CREATE_ALARM_HIGH_QUEUE_FAILED Creating the high alarm message queue failed.
0xC0300123	TLR_E_PNS_IF_CFG_PACKET_TO_SMALL While evaluating SetConfiguration packet the packet length was found smaller than amount of configured modules needs.
0xC0300124	TLR_E_PNS_IF_FATAL_ERROR_OCCURRED A fatal error occurred prior to this request. Therefore this request cannot be fulfilled.
0xC0300125	TLR_E_PNS_IF_SUBMODULE_NOT_IN_CYCLIC_EXCHANGE The request could not be executed because the submodule is not in cyclic data exchange.
0xC0300126	TLR_E_PNS_IF_SERVICE_NOT_AVAILABLE_THROUGH_DPM This service is not available through DPM.
0xC0300127	TLR_E_PNS_IF_INVALID_PARAMETER_VERSION The version of parameters is invalid (most likely too old).
0xC0300128	TLR_E_PNS_IF_DATABASE_USAGE_IS_FORBIDDEN The usage of database is forbidden by task's startup parameters.
0xC0300129	TLR_E_PNS_IF_RECORD_LENGTH_TOO_BIG The amount of record data is too big.
0xC030012A	TLR_E_PNS_IF_IDENTIFY_LLDP_QUEUE_FAILED Identifying the stack message queue LLDP failed.
0xC030012BL	TLR_E_PNS_IF_INVALID_TOTAL_PACKET_LENGTH SetConfiguration Requests total packet length is invalid.
0xC030012CL	TLR_E_PNS_IF_APPLICATION_TIMEOUT The application needed to much time to respond to an indication.

Hexadecimal Value	Definition Description
0xC030012DL	TLR_E_PNS_IF_PACKET_BUFFER_INVALID_PACKET The packet buffer storing packets exchanged between host-application and stack returned a faulty packet.
0xC030012EL	TLR_E_PNS_IF_NO_IO_IMAGE_CONFIGURATION_AVAILABLE The request cannot be handled until a valid IO Image configuration is available.
0xC030012FL	TLR_E_PNS_IF_IO_IMAGE_ALREADY_CONFIGURED A valid IO Image configuration is already available.
0xC0300130L	TLR_E_PNS_IF_INVALID_PDEV_SUBSLOT A submodule may only be plugged into a PDEV-subslot which does not exceed the number of supported interfaces and portnumbers.
0xC0300A03	TLR_E_PNS_IF_CM_AR_REASON_MEM AR Out of memory.
0xC0300A04	TLR_E_PNS_IF_CM_AR_REASON_FRAME AR add provider or consumer failed.
0xC0300A05	TLR_E_PNS_IF_CM_AR_REASON_MISS AR consumer DHT/WDT expired.
0xC0300A06	TLR_E_PNS_IF_CM_AR_REASON_TIMER AR cmi timeout.
0xC0300A07	TLR_E_PNS_IF_CM_AR_REASON_ALARM AR alarm-open failed.
0xC0300A08	TLR_E_PNS_IF_CM_AR_REASON_ALSND AR alarm-send.cnf(-).
0xC0300A09	TLR_E_PNS_IF_CM_AR_REASON_ALACK AR alarm-ack-send.cnf(-).
0xC0300A0A	TLR_E_PNS_IF_CM_AR_REASON_ALLEN AR alarm data too long.
0xC0300A0B	TLR_E_PNS_IF_CM_AR_REASON_ASRT AR alarm.ind(err).
0xC0300A0C	TLR_E_PNS_IF_CM_AR_REASON_RPC AR rpc-client call.cnf(-).
0xC0300A0D	TLR_E_PNS_IF_CM_AR_REASON_ABORT AR abort.req.
0xC0300A0E	TLR_E_PNS_IF_CM_AR_REASON_RERUN AR re-run aborts existing AR.
0xC0300A0F	TLR_E_PNS_IF_CM_AR_REASON_REL AR release.ind received.
0xC0300A10	TLR_E_PNS_IF_CM_AR_REASON_PAS AR device deactivated.
0xC0300A11	TLR_E_PNS_IF_CM_AR_REASON_RMV AR removed.
0xC0300A12	TLR_E_PNS_IF_CM_AR_REASON_PROT AR protocol violation.
0xC0300A13	TLR_E_PNS_IF_CM_AR_REASON_NARE AR name resolution error.
0xC0300A14	TLR_E_PNS_IF_CM_AR_REASON_BIND AR RPC-Bind error.
0xC0300A15	TLR_E_PNS_IF_CM_AR_REASON_CONNECT AR RPC-Connect error.

Hexadecimal Value	Definition Description
0xC0300A16	TLR_E_PNS_IF_CM_AR_REASON_READ AR RPC-Read error.
0xC0300A17	TLR_E_PNS_IF_CM_AR_REASON_WRITE AR RPC-Write error.
0xC0300A18	TLR_E_PNS_IF_CM_AR_REASON_CONTROL AR RPC-Control error.
0xC0300A19	TLR_E_PNS_IF_CM_AR_REASON_PULLPLUG AR forbidden pull or plug after check.rsp and before in-data.ind.
0xC0300A1A	TLR_E_PNS_IF_CM_AR_REASON_AP_RMV AR AP removed.
0xC0300A1B	TLR_E_PNS_IF_CM_AR_REASON_LNK_DWN AR link down.
0xC0300A1C	TLR_E_PNS_IF_CM_AR_REASON_MMAC AR could not register multicast-MAC address.
0xC0300A1D	TLR_E_PNS_IF_CM_AR_REASON_SYNC Not synchronized (cannot start companion-ar).
0xC0300A1E	TLR_E_PNS_IF_CM_AR_REASON_TOPO Wrong topology (cannot start companion-ar).
0xC0300A1F	TLR_E_PNS_IF_CM_AR_REASON_DCP_NAME DCP, station-name changed.
0xC0300A20	TLR_E_PNS_IF_CM_AR_REASON_DCP_RESET DCP, reset to factory-settings.
0xC0300A21	TLR_E_PNS_IF_CM_AR_REASON_PRM 0x8ipp submodule in the first AR has either an appl-ready-pending (erroneous parameterisation) or is locked (no parameterisation) or is wrong or pulled (no parameterisation).
0xC0300A22	TLR_E_PNS_IF_CM_AR_REASON_IRDATA No irdata record yet.
0xC0300A23	TLR_E_PNS_IF_CM_AR_REASON_PDEV Ownership of PDEV.
0xC0910001	TLR_E_IO_SIGNAL_COMMAND_INVALID Invalid command received.
0xC0910002	TLR_E_IO_SIGNAL_INVALID_SIGNAL_DIRECTION The value of signal direction is invalid.
0xC0910003	TLR_E_IO_SIGNAL_INVALID_SIGNAL_AMOUNT The value of signal amountis is invalid.
0xC0910004	TLR_E_IO_SIGNAL_INVALID_SIGNAL_TYPE The value of signal type is invalid.
0xC0910005	TLR_E_IO_SIGNAL_UNSUPPORTED_SIGNAL_TYPE The value of signal type is unsupported.

Table 98: Status/Error Codes Overview - PROFINET IO RT IRT Device Protocol API 06

29.2 Status/Error Codes for CM-Dev Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok.
0xC00B0001	TLR_E_PNIO_CMDEV_COMMAND_INVALID Received invalid command in CMDEV task.
0xC00B0010	TLR_E_PNIO_CMDEV_INIT_PARAM_INVALID Invalid parameter in CMDEV_ResourceInit().
0xC00B0011	TLR_E_PNIO_CMDEV_RESOURCE_LIMIT_EXCEEDED No more CMDEV protocol machines possible.
0xC00B0012	TLR_E_PNIO_CMDEV_RESOURCE_OUT_OF_MEMORY Insufficient memory for this request to CMDEV.
0xC00B0013	TLR_E_PNIO_CMDEV_CLOSED This CMDEV protocol machine was closed.
0xC00B0014	TLR_E_PNIO_CMDEV_STATE_CONFLICT This request cannot be served in current CMDEV state.
0xC00B0015	TLR_E_PNIO_CMDEV_CONFIG_PENDING The state of CMDEV's management resource is pending.
0xC00B0016	TLR_E_PNIO_CMDEV_CONFIG_STATE_INVALID The state of CMDEV's management resource is invalid.
0xC00B0017	TLR_E_PNIO_CMDEV_PACKET_OUT_OF_MEMORY Insufficient memory to create a packet in CMDEV task.
0xC00B0018	TLR_E_PNIO_CMDEV_PACKET_SEND_FAILED Error while sending a packet to another task in CMDEV.
0xC00B0019	TLR_E_PNIO_CMDEV_CONN_REQ_LEN_INVALID The length of the Connect-Packet in CMDEV_Connect_req() is invalid.
0xC00B001A	TLR_E_PNIO_CMDEV_NAME_LEN_INVALID The length of the name for IO-Device does not match to the name in CMDEV_Connect_req().
0xC00B001B	TLR_E_PNIO_CMDEV_BLKNUM_UNEXPECTED The Connect-Confirmation contains an incorrect amount of blocks.
0xC00B001C	TLR_E_PNIO_CMDEV_BLKNUM_UNEXPECTED_MEMORY_FAULT The Connect-Confirmation contains an incorrect amount of blocks but may be received correctly in RPC-layer. CMDEV protocol-machine has not reserved enough memory for the whole confirmation.
0xC00B001D	TLR_E_PNIO_CMDEV_INVALID_FRAMEID_RECEIVED The Connect-Response from IO-Device specified an invalid FrameID to use for IO-Controllers OutputCR.
0xC00B001F	TLR_E_PNIO_CMDEV_EMPTY_POOL_DETECTED The packet pool of CMDEV is empty.
0xC00B0020	TLR_E_PNIO_CMDEV_PACKET_WRONG_DEVICEHANDLE
0xC00B0021	TLR_E_PNIO_CMDEV_POINTER_INVALID
0xC00B0022	TLR_E_PNIO_CMDEV_FUNCTION_RETURN_FAILURE
0xC00B0023	TLR_E_PNIO_CMDEV_WAIT_FOR_PACKET_FAILED
0xC00B0024	TLR_E_PNIO_CMDEV_ALPMI_ACTIVATE_FAILED
0xC00B0025	TLR_E_PNIO_CMDEV_BUILD_CONNECT_RSP_FAILED
0xC00B0026	TLR_E_PNIO_CMDEV_AP_ENTRY_NOT_FOUND

Hexadecimal Value	Definition Description
0xC00B0027	TLR_E_PNIO_CMDEV_TIMER_CREATE_FAILED
0xC00B0028	TLR_E_PNIO_CMDEV_ERROR_SEQUENCE
0xC00B0029	TLR_E_PNIO_CMDEV_INVALID_PLUG_REQUEST_PCK
0xC00B002A	TLR_E_PNIO_CMDEV_INVALID_PULL_REQUEST_PCK
0xC00B002B	TLR_E_PNIO_CMDEV_PLUG_SLOT_NOT_EXPECTED
0xC00B002C	TLR_E_PNIO_CMDEV_PLUG_SUBSLOT_NOT_EXPECTED
0xC00B002D	TLR_E_PNIO_CMDEV_RPC_PACKET_INVALID
0xC00B002E	TLR_E_PNIO_CMDEV_ALPMI_INIT_FAILED Initializing the ALPMI state machine failed.
0xC00B002F	TLR_E_PNIO_CMDEV_CHANGE_BUS_STATE_FAILED Changing the internal Bus state failed.
0xC00B0040	TLR_E_PNIO_CMDEV_INVALID_PM_INDEX The index of CMDEV protocol-machine is invalid.
0xC00B0041	TLR_E_PNIO_CMDEV_INVALID_PM The CMDEV protocol-machine corresponding to index is invalid.
0xC00B0042	TLR_E_PNIO_CMDEV_INVALID_CMDEV_HANDLE The handle to CMDEV protocol-machine is invalid.
0xC00B0043	TLR_E_PNIO_CMDEV_SUBMODULE_NOT_IN_CYCLIC_DATA_EXCHANGE The request can not be handled because the submodule is not contained in cyclic data exchange.
0xC00B0050	TLR_E_PNIO_CMDEV_DEVICE_NOT_RESPONDING The IO-Device which shall be connected does not answer.
0xC00B0051	TLR_E_PNIO_CMDEV_DUPLICATE_DEVICE_NAME_DETECTED More than one IO-Device with the specified NameOfStation exists; a connection can not be established.
0xC00B0052	TLR_E_PNIO_CMDEV_DEVICE_IP_ADDRESS_ALREADY_IN_USE The IP-address the controller shall use for the IO-Device is already in use by another network device; a connection cannot be established.
0xC00B0053	TLR_E_PNIO_CMDEV_TOO_MUCH_ALARM_DATA The packet contains too much alarm data.
0xC00B0060	TLR_E_PNIO_CMDEV_RPC_CONNECT_FAILED The Connect-Response of IO-Device contained an error code; a connection could not be established.
0xC00B0061	TLR_E_PNIO_CMDEV_RPC_WRITE_PARAM_FAILED The Write_Param-Response of IO-Device contained an error code; a connection could not be established.
0xC00B0062	TLR_E_PNIO_CMDEV_RPC_WRITE_FAILED The Write-Response of IO-Device contained an error code.
0xC00B0063	TLR_E_PNIO_CMDEV_RPC_READ_FAILED The Read-Response of IO-Device contained an error code.
0xC00B0064	TLR_E_PNIO_CMDEV_TCP_IP_SHUTDOWN The TCP/IP-Stack closed a socket needed for communication.

Hexadecimal Value	Definition Description
0xC00B0070	TLR_E_PNIO_CMDEV_AR_BLOCKTYPE The expected configuration block for AR in CMDEV_RMConnect_req_LoadAr() is missing.
0xC00B0071	TLR_E_PNIO_CMDEV_AR_BLOCKLEN The expected configuration block for AR in CMDEV_RMConnect_req_LoadAr() has an invalid length.
0xC00B0072	TLR_E_PNIO_CMDEV_AR_TYPE The configuration block for AR in CMDEV_RMConnect_req_LoadAr() has an invalid type.
0xC00B0073	TLR_E_PNIO_CMDEV_AR_UUID The configuration block for AR in CMDEV_RMConnect_req_LoadAr() has an invalid UUID.
0xC00B0074	TLR_E_PNIO_CMDEV_AR_PROPERTY The configuration block for AR in CMDEV_RMConnect_req_LoadAr() has an invalid network properties value.
0xC00B0075	TLR_E_PNIO_CMDEV_AR_REF_UNEXPECTED The AR-Reference for CMDEV protocol-machine is invalid.
0xC00B0076	TLR_E_PNIO_CMDEV_AR_UUID_COMP_FAILED The UUID inside IO-Device's Connect-Confirmation is incorrect.
0xC00B0077	TLR_E_PNIO_CMDEV_AR_KEY_COMP_FAILED The session-key inside IO-Device's Connect-Confirmation is incorrect.
0xC00B0078	TLR_E_PNIO_CMDEV_AR_MAC_COMP_FAILED The MAC-address of IO-Device is incorrect.
0xC00B0080	TLR_E_PNIO_CMDEV_INSERT_MODULE_ERROR
0xC00B0081	TLR_E_PNIO_CMDEV_INSERT_SUBMODULE_ERROR
0xC00B0082	TLR_E_PNIO_CMDEV_MAX_API_LIMIT_EXCEEDED
0xC00B0083	TLR_E_PNIO_CMDEV_API_ALREADY_ADDED
0xC00B0084	TLR_E_PNIO_CMDEV_SLOT_OUT_OF_RANGE
0xC00B0085	TLR_E_PNIO_CMDEV_SUBSLOT_OUT_OF_RANGE
0xC00B0086	TLR_E_PNIO_CMDEV_SUBSLOT_ALREADY_EXISTS
0xC00B0087	TLR_E_PNIO_CMDEV_PACKET_WRONG_API
0xC00B0088	TLR_E_PNIO_CMDEV_PACKET_WRONG_SLOT
0xC00B0089	TLR_E_PNIO_CMDEV_PACKET_WRONG_SUBSLOT
0xC00B008A	TLR_E_PNIO_CMDEV_SLOT_ENTRY_NOT_FOUND
0xC00B008B	TLR_E_PNIO_CMDEV_SLOT_ALREADY_EXISTS
0xC00B008C	TLR_E_PNIO_CMDEV_SUBSLOT_ENTRY_NOT_FOUND

Hexadecimal Value	Definition Description
0xC00B008D	TLR_E_PNIO_CMDEV_FILTERED A CheckIndication shall not be forwarded to the user according to configuration.
0xC00B0090	TLR_E_PNIO_CMDEV_IOCRR_BLOCKLEN The expected configuration block for IOCRR in CMDEV_RMConnect_req_Loadlocr() has an invalid length.
0xC00B0091	TLR_E_PNIO_CMDEV_IOCRR_TYPE_UNSUPPORTED The type of IOCRR is unsupported.
0xC00B0092	TLR_E_PNIO_CMDEV_IOCRR_TYPE_UNKNOWN The type of IOCRR is unknown.
0xC00B0093	TLR_E_PNIO_CMDEV_IOCRR_RTCCLASS_UNSUPPORTED The RTC-class is unsupported.
0xC00B0094	TLR_E_PNIO_CMDEV_IOCRR_RTCCLASS_UNKNOWN The RTC-class is unknown.
0xC00B0095	TLR_E_PNIO_CMDEV_IOCRR_IFTYPE_UNSUPPORTED The expected configuration block for IOCRR in CMDEV_RMConnect_req_Loadlocr() has an unsupported interface-type.
0xC00B0096	TLR_E_PNIO_CMDEV_IOCRR_SCSYNC_UNSUPPORTED The expected configuration block for IOCRR in CMDEV_RMConnect_req_Loadlocr() has an unsupported value for SendClock.
0xC00B0097	TLR_E_PNIO_CMDEV_IOCRR_ADDRESS_UNSUPPORTED The expected configuration block for IOCRR in CMDEV_RMConnect_req_Loadlocr() has an unsupported Address-Resolution.
0xC00B0098	TLR_E_PNIO_CMDEV_IOCRR_REDUNDANCY_UNSUPPORTED The expected configuration block for IOCRR in CMDEV_RMConnect_req_Loadlocr() has an unsupported Media-Redundancy.
0xC00B0099	TLR_E_PNIO_CMDEV_IOCRR_REFERENCE No IOCRR could be found or created.
0xC00B009A	TLR_E_PNIO_CMDEV_IOCRR_OBJECT_IOD The expected configuration block for IOCRR in CMDEV_RMConnect_req_Loadlocr() does not contain any IO-Data.
0xC00B009B	TLR_E_PNIO_CMDEV_IOCRR_OBJECT_IOS The expected configuration block for IOCRR in CMDEV_RMConnect_req_Loadlocr() does not contain any IO-Status.
0xC00B009C	TLR_E_PNIO_CMDEV_IOCRR_API The expected configuration block for IOCRR in CMDEV_RMConnect_req_Loadlocr() does not contain any API.
0xC00B0100	TLR_E_PNIO_CMDEV_FRAME_ID_COUNT_INVALID
0xC00B0101	TLR_E_PNIO_CMDEV_FRAME_ID_OUT_OF_RANGE
0xC00B0102	TLR_E_PNIO_CMDEV_RT_CLASS_NOT_SUPPORTED
0xC00B0103	TLR_E_PNIO_CMDEV_INSERT_AR_ERROR
0xC00B0104	TLR_E_PNIO_CMDEV_MAX_AR_LIMIT_EXCEEDED
0xC00B0105	TLR_E_PNIO_CMDEV_AR_INVALID
0xC00B0106	TLR_E_PNIO_CMDEV_IOCRR_INVALID

Hexadecimal Value	Definition Description
0xC00B0107	TLR_E_PNIO_CMDEV_TYPE_LEN_INVALID
0xC00B0108	TLR_E_PNIO_CMDEV_INVALID_CTRL_REQUEST_BLOCK
0xC00B0109	TLR_E_PNIO_CMDEV_MODULECONFIG_PACKET_INVALID

*Table 99: Status/Error Codes for CM-Dev Task - PROFINET IO RT IRT Device Protocol
API 06*

29.2.1 CM-Dev-Task Diagnosis-Codes

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok.
0xC00BF000	TLR_DIAG_E_CMDEV_TASK_RESOURCE_INIT_FAILED Initializing CMDEV's task-resources failed.
0xC00BF001	TLR_DIAG_E_CMDEV_TASK_CREATE_QUE_FAILED Failed to create message-queue for CMDEV.
0xC00BF002	TLR_DIAG_E_CMDEV_TASK_CREATE_SYNC_QUE_FAILED Failed to create synchronous message-queue for CMDEV.
0xC00BF003	TLR_DIAG_E_CMDEV_TASK_RPC_INIT_FAILED Failed to initialize CMDEV's local RPC-resources.
0xC00BF004	TLR_DIAG_E_CMDEV_TASK_IDENT_ACP_QUE_FALIED Failed to get handle to ACP message-queue in CMDEV.
0xC00BF005	TLR_DIAG_E_CMDEV_TASK_IDENT_MGT_QUE_FALIED Failed to get handle to MGT message-queue in CMDEV.
0xC00BF006	TLR_DIAG_E_CMDEV_TASK_IDENT_RPC_QUE_FALIED Failed to get handle to RPC message-queue in CMDEV.
0xC00BF007	TLR_DIAG_E_CMDEV_TASK_IDENT_TCP_QUE_FALIED Failed to get handle to TCP/IP message-queue in CMDEV.
0xC00BF008	TLR_DIAG_E_CMDEV_TASK_IDENT_DCP_QUE_FALIED Failed to get handle to DCP message-queue in CMDEV .
0xC00BF009	TLR_DIAG_E_CMDEV_TASK_IDENT_PNSIF_QUE_FALIED Failed to get handle to PNSIF message-queue in CMDEV.

Table 100: CM-Dev-Task Diagnosis-Codes - PROFINET IO RT IRT Device Protocol API 06

29.3 Status/Error Codes for EDD Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok.
0xC00E0001	TLR_E_PNIO_EDD_PROCESS_END Return value of EDD_Scheduler_PreProcess().
0xC00E0002	TLR_E_PNIO_EDD_PARAM_INVALID_EDD Invalid parameter for EDD_Scheduler_Start_req().

Table 101: Status/Error Codes for EDD Task - PROFINET IO RT IRT Device Protocol API 06

29.3.1 EDD-Task Diagnosis-Codes

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok.
0xC00EF001	TLR_E_PNIO_EDD_COMMAND_INVALID Received invalid command in EDD task.
0xC00EF010	TLR_DIAG_E_EDD_TASK_INIT_LOCAL_FAILED Failed to initialize EDD's local resources.

Table 102: EDD-Task Diagnosis-Codes - PROFINET IO RT IRT Device Protocol API 06

29.4 Status/Error Codes for ACP Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok.
0xC0110010	TLR_E_PNIO_ACP_PHASE_OUT_OF_MEMORY Insufficient memory to initialize ACP-phase.
0xC0110011	TLR_E_PNIO_ACP_PHASE_REDUCTION_RATIO Invalid reduction-ratio (uiMaxRatio) in ACP_PhaseInit().
0xC0110012	TLR_E_PNIO_ACP_PHASE_SEND_CLOCK_FACTOR Invalid sendClock-factor (uiScFact) in ACP_PhaseInit().
0xC0110013	TLR_E_PNIO_ACP_PHASE_FRAME_RESOURCES Invalid parameter (uiMaxFrame) in ACP_PhaseInit().
0xC0110014	TLR_E_PNIO_ACP_PACKET_SEND_FAILED Error sending a packet to another task in ACP task.
0xC0110015	TLR_E_PNIO_ACP_RESOURCE_OUT_OF_MEMORY Insufficient memory in ACP task.
0xC0110016	TLR_E_PNIO_ACP_DRV_EDD_IOCTL_ERROR
0xC0110017	TLR_E_PNIO_SYNC_LOAD_IRT_DATA_ERROR
0xC0110018	TLR_E_PNIO_ACP_EMPTY_POOL_DETECTED The packet pool of ACP is empty.
0xC0110020	TLR_E_PNIO_ALARM_PARAM_INVALID_INIT Invalid parameter "uiMaxAlpm" in Alarm_ResourceInit().
0xC0110021	TLR_E_PNIO_ALARM_RESOURCE_OUT_OF_MEMORY Insufficient memory in Alarm_ResourceInit().
0xC0110030	TLR_E_PNIO_ALPMR_PRIORITY_INVALID Invalid alarm priority in request packet of ALPMR_AlarmAck_req().
0xC0110031	TLR_E_PNIO_ALPMR_RESOURCE_LIMIT_EXCEEDED The requested number of ALPMR protocol machines exceeds the highest possible number in ALPMR_Init_req().
0xC0110032	TLR_E_PNIO_ALPMR_RESOURCE_OUT_OF_MEMORY Insufficient memory in ALPMR_Init_req().
0xC0110033	TLR_E_PNIO_ALPMR_HANDLE_INVALID The ALPMR protocol-machine corresponding to the index in request packet is invalid.
0xC0110034	TLR_E_PNIO_ALPMR_STATE_INVALID The ALPMR protocol-machine state is invalid for the current request.
0xC0110035	TLR_E_PNIO_ALPMR_PACKET_SEND_FAILED Sending an Alarm-Indication-packet to another task failed in ALPMR.
0xC0110036	TLR_E_PNIO_ALPMR_PACKET_OUT_OF_MEMORY Creating an Alarm-Indication-packet to be send to another task failed due to insufficient memory.
0xC0110037	TLR_E_PNIO_ALPMR_RESOURCE_INDEX_INVALID The index of ALPMR's protocol machine is invalid.
0xC0110040	TLR_E_PNIO_APMR_PARAM_INVALID_INIT The parameter uiMaxApmr (maximum number of parallel APMR protocol-machines) in APMR_ResourceInit() is invalid.

Hexadecimal Value	Definition Description
0xC0110041	TLR_E_PNIO_APMR_RESOURCE_OUT_OF_MEMORY Insufficient memory in APMR_ResourceInit() to create the APMR protocol machines.
0xC0110042	TLR_E_PNIO_APMR_HANDLE_INVALID The APMR protocol machine or its index is invalid.
0xC0110043	TLR_E_PNIO_APMR_STATE_INVALID The state of APMR protocol machine is invalid for current request.
0xC0110044	TLR_E_PNIO_APMR_FRAME_SEND_FAILED Sending an ACK or NAK in response to a received Alarm-PDU failed.
0xC0110050	TLR_E_PNIO_APMS_PARAM_INVALID_INIT The parameter uiMaxApms (maximum number of parallel APMS protocol-machines) in APMS_ResourceInit() is invalid.
0xC0110051	TLR_E_PNIO_APMS_RESOURCE_OUT_OF_MEMORY Insufficient memory in APMS_ResourceInit() to create the APMS protocol machines.
0xC0110052	TLR_E_PNIO_APMS_HANDLE_INVALID The APMS protocol machine or its index is invalid.
0xC0110053	TLR_E_PNIO_APMS_STATE_INVALID The state of APMS protocol machine is invalid for current request.
0xC0110054	TLR_E_PNIO_APMS_FRAME_OUT_OF_MEMORY APMS was not able to get an Edd_FrameBuffer for sending a packet.
0xC0110055	TLR_E_PNIO_APMS_FRAME_SEND_FAILED An error occurred while APMS was trying to send an Edd_Frame.
0xC0110056	TLR_E_PNIO_APMS_TIMER_CREATE_FAILED APMS_Activate_req() was not able to create a TLR-Timer.
0xC0110057	TLR_E_PNIO_APMS_TIMER_OUT_OF_MEMORY Insufficient memory for APMS_Send_req_Data() to allocate a timer-indication packet.
0xC0110058	TLR_E_PNIO_APMS_INDEX_INVALID
0xC0110060	TLR_E_PNIO_CPM_PARAM_INVALID_INIT The parameter uiMaxCpmRtc1 and/or uiMaxCpmRtc2 of CPM_ResourceInit() is invalid.
0xC0110061	TLR_E_PNIO_CPM_PARAM_INVALID_CLASS The requested RTC-class is invalid in CPM_Init_req().
0xC0110062	TLR_E_PNIO_CPM_RESOURCE_LIMIT_EXCEEDED The requested amount of CPM protocol machines is higher than the highest possible value.
0xC0110063	TLR_E_PNIO_CPM_RESOURCE_OUT_OF_MEMORY Insufficient memory for current request in CPM.
0xC0110064	TLR_E_PNIO_CPM_HANDLE_INVALID The handle to CPM protocol machine is invalid.
0xC0110065	TLR_E_PNIO_CPM_STATE_INVALID The state of CPM protocol machine is incorrect for current request.
0xC0110066	TLR_E_PNIO_CPM_PHASE_LIMIT_EXCEEDED Invalid phase found in Init-request-packet in CPM_Init_req() or in ACP_PhaseCpmAdd_req() or ACP_PhaseCpmRemove_req().
0xC0110067	TLR_E_PNIO_CPM_SEND_CLOCK_LIMIT_EXCEEDED The SendClock-factor in Init-request-packet to CPM does not match the one in ACP_Tasks' resources.
0xC0110069	TLR_E_PNIO_CPM_DATALEN_LIMIT_EXCEEDED Packet size to receive is too big. Error is detected in CPM_Init_req().

Hexadecimal Value	Definition Description
0xC011006A	TLR_E_PNIO_CPM_PACKET_SEND_FAILED Error while sending a packet to another task in CPM.
0xC0110080	TLR_E_PNIO_PPM_PARAM_INVALID_INIT The parameter "uiMaxPPMRtc1" and/or "uiMaxPPMRtc2" of PPM_ResourceInit() is invalid.
0xC0110081	TLR_E_PNIO_PPM_PARAM_INVALID_CLASS The requested RTC-class is invalid in PPM_Init_req().
0xC0110082	TLR_E_PNIO_PPM_RESOURCE_LIMIT_EXCEEDED The requested amount of PPM protocol machines is higher than the highest possible value.
0xC0110083	TLR_E_PNIO_PPM_RESOURCE_OUT_OF_MEMORY Insufficient memory for current request in PPM.
0xC0110084	TLR_E_PNIO_PPM_HANDLE_INVALID The handle to PPM protocol machine is invalid.
0xC0110085	TLR_E_PNIO_PPM_STATE_INVALID The state of PPM protocol machine is incorrect for current request.
0xC0110086	TLR_E_PNIO_PPM_PHASE_LIMIT_EXCEEDED Invalid phase found in Init-request-packet in PPM_Init_req() or in ACP_PhasePPMAdd_req() or ACP_PhasePPMRemove_req().
0xC0110087	TLR_E_PNIO_PPM_SEND_CLOCK_LIMIT_EXCEEDED The SendClock-factor in PPMs Init-request-packet does not match the one in ACP_Tasks' resources.
0xC0110089	TLR_E_PNIO_PPM_DATALEN_LIMIT_EXCEEDED Packet size to send is too big. Error is detected in PPM_Init_req().
0xC011008A	TLR_E_PNIO_PPM_RESOURCE_CLASS_INVALID
0xC0110090	TLR_E_PNIO_ALPMI_PRIORITY_INVALID Invalid alarm priority in request packet of ALPMI_AlarmAck_req().
0xC0110091	TLR_E_PNIO_ALPMI_RESOURCE_LIMIT_EXCEEDED The requested number of ALPMI protocol machines exceeds the highest possible number in ALPMI_Init_req().
0xC0110092	TLR_E_PNIO_ALPMI_RESOURCE_OUT_OF_MEMORY Insufficient memory in ALPMI_Init_req().
0xC0110093	TLR_E_PNIO_ALPMI_HANDLE_INVALID The ALPMI protocol-machine corresponding to the index in request packet is invalid.
0xC0110094	TLR_E_PNIO_ALPMI_STATE_INVALID The ALPMI protocol-machine state is invalid for the current request.
0xC0110095	TLR_E_PNIO_ALPMI_PACKET_SEND_FAILED Sending an Alarm-Indication-packet to another task failed in ALPMI.
0xC0110096	TLR_E_PNIO_ALPMI_PACKET_OUT_OF_MEMORY Creating an Alarm-Indication-packet to be sent to another task failed due to insufficient memory.
0xC0110097	TLR_E_PNIO_ALPMI_RESOURCE_INDEX_INVALID The index of ALPMI's protocol machine is invalid.

Table 103: Status/Error Codes for ACP Task - PROFINET IO RT IRT Device Protocol API
06

29.4.1 ACP-Task Diagnosis-Codes

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok.
0xC011F001	TLR_E_PNIO_ACP_COMMAND_INVALID Received invalid command in ACP task.
0xC011F010	TLR_DIAG_E_ACP_TASK_ACP_PHASE_INIT_FAILED Failed to initialize ACP Phase.
0xC011F011	TLR_DIAG_E_ACP_TASK_ALARM_INIT_FAILED Failed to initialize Alarm-machines.
0xC011F012	TLR_DIAG_E_ACP_TASK_APMR_INIT_FAILED Failed to initialize APMR.
0xC011F013	TLR_DIAG_E_ACP_TASK_APMS_INIT_FAILED Fails to initialize APMS.
0xC011F014	TLR_DIAG_E_ACP_TASK_CPM_INIT_FAILED Failed to initialize CPM.
0xC011F015	TLR_DIAG_E_ACP_TASK_PPM_INIT_FAILED Failed to initialize PPM.
0xC011F016	TLR_DIAG_E_ACP_TASK_CREATE_QUE_FAILED Failed to create message-queue for ACP.
0xC011F017	TLR_DIAG_E_ACP_TASK_IDENT_EDD_FAILED Failed to identify Drv_EDD.
0xC011F018	TLR_DIAG_E_ACP_TASK_IDENT_EDD_QUE_FAILED Failed to get handle to EDD message-queue.
0xC011F019	TLR_DIAG_E_ACP_TASK_IDENT_DCP_QUE_FAILED Failed to get handle to DCP message-queue.
0xC011F01A	TLR_DIAG_E_ACP_TASK_IDENT_CMDEV_QUE_FAILED Failed to get handle to CMDEV message-queue.

Table 104: ACP-Task Diagnosis-Codes - PROFINET IO RT IRT Device Protocol API 06

29.5 Status/Error Codes for DCP Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok.
0xC012000A	TLR_E_PNIO_DCP_PARAM_INVALID_EDD Invalid parameter in Start-Edd-packet for DCP_StartEDD_req().
0xC0120010	TLR_E_PNIO_DCPMCR_INIT_PARAM_INVALID Invalid parameter (uiMaxMcr) in DCPMCR_ResourceInit().
0xC0120011	TLR_E_PNIO_DCPMCR_INIT_OUT_OF_MEMORY Insufficient memory to initialize DCPMCR protocol machines in DCPMCR_ResourceInit().
0xC0120012	TLR_E_PNIO_DCPMCR_RESOURCE_LIMIT_EXCEEDED The index of DCPMCR's protocol machine is invalid.
0xC0120013	TLR_E_PNIO_DCPMCR_RESOURCE_OUT_OF_MEMORY Insufficient memory for request in DCPMCR_Activate_req().
0xC0120014	TLR_E_PNIO_DCPMCR_RESOURCE_STATE_INVALID The state of DCPMCR protocol machine is incorrect for current request.

Hexadecimal Value	Definition Description
0xC0120015	TLR_E_PNIO_DCPMCR_RESOURCE_HANDLE_INVALID The handle to DCPMCR protocol machine is invalid.
0xC0120016	TLR_E_PNIO_DCPMCR_TIMER_CREATE_FAILED DCPMCR_Activate_req() was unable to create a TLR-timer.
0xC0120017	TLR_E_PNIO_DCPMCR_TIMER_OUT_OF_MEMORY Insufficient memory for DCPMCR_Identify_ind() to allocate a timer-indication packet.
0xC0120018	TLR_E_PNIO_DCPMCR_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet to be send to another task in DCPMCR.
0xC0120019	TLR_E_PNIO_DCPMCR_PACKET_SEND_FAILED Error while sending a packet to another task in DCPMCR.
0xC012001A	TLR_E_PNIO_DCPMCR_FRAME_OUT_OF_MEMORY DCPMCR was not able to get an Edd_FrameBuffer for sending a packet.
0xC012001B	TLR_E_PNIO_DCPMCR_FRAME_SEND_FAILED An error occurred while DCPMCR was trying to send an Edd_Frame.
0xC012001C	TLR_E_PNIO_DCPMCR_WAIT_ACK DCPMCR could not be closed because it is still waiting for an ACK.
0xC012001D	TLR_E_PNIO_DCPMCR_TASK_RES_ADDRESS DCPMCR: Invalid parameter (task resources block address) while handling DCP Identify indication.
0xC012001E	TLR_E_PNIO_DCPMCR_EDD_FRAME_ADDRESS DCPMCR: Invalid parameter (EDD frame address) while handling DCP Identify indication.
0xC012001F	TLR_E_PNIO_DCPMCR_MCR_ADDRESS DCPMCR: Invalid parameter (DCPMCR state machine address) while handling DCP Identify indication.
0xC0120020	TLR_E_PNIO_DCPMCR_RMPM_ADDRESS DCPMCR: Invalid parameter (RMPM state machine address) while handling DCP Identify indication.
0xC0120021	TLR_E_PNIO_DCP_EMPTY_POOL_DETECTED The packet pool of DCP is empty.
0xC0120100	TLR_E_PNIO_DCPMCS_INIT_PARAM_INVALID Invalid parameter (uiMaxMcs) in DCPMCS_ResourceInit().
0xC0120101	TLR_E_PNIO_DCPMCS_INIT_OUT_OF_MEMORY Insufficient memory to initialize DCPMCS protocol machines in DCPMCS_ResourceInit().
0xC0120102	TLR_E_PNIO_DCPMCS_RESOURCE_LIMIT_EXCEEDED There are too many outstanding DCPMCS requests. New requests will not be accepted.
0xC0120103	TLR_E_PNIO_DCPMCS_RESOURCE_OUT_OF_MEMORY Insufficient memory for request in DCPMCS_Activate_req().
0xC0120104	TLR_E_PNIO_DCPMCS_RESOURCE_STATE_INVALID The state of DCPMCS protocol machine is incorrect for current request.
0xC0120105	TLR_E_PNIO_DCPMCS_RESOURCE_HANDLE_INVALID The handle to DCPMCS protocol machine is invalid.
0xC0120106	TLR_E_PNIO_DCPMCS_TIMER_CREATE_FAILED DCPMCS_Activate_req() was unable to create a TLR-timer.
0xC0120107	TLR_E_PNIO_DCPMCS_TIMER_OUT_OF_MEMORY Insufficient memory for DCPMCS_Identify_req() to allocate a timer-indication packet.
0xC0120108	TLR_E_PNIO_DCPMCS_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet to be send to another task in DCPMCS.

Hexadecimal Value	Definition Description
0xC0120109	TLR_E_PNIO_DCPMCS_PACKET_SEND_FAILED Error while sending a packet to another task in DCPMCS.
0xC012010A	TLR_E_PNIO_DCPMCS_FRAME_OUT_OF_MEMORY DCPMCS was not able to get an Edd_FrameBuffer for sending a packet.
0xC012010B	TLR_E_PNIO_DCPMCS_FRAME_SEND_FAILED An error occurred while DCPMCS was trying to send an Edd_Frame.
0xC0120200	TLR_E_PNIO_DCPUCR_INIT_PARAM_INVALID Invalid parameter (uiMaxUcr) in DCPUCR_ResourceInit().
0xC0120201	TLR_E_PNIO_DCPUCR_INIT_OUT_OF_MEMORY Insufficient memory to initialize DCPUCR protocol machines in DCPUCR_ResourceInit().
0xC0120202	TLR_E_PNIO_DCPUCR_RESOURCE_LIMIT_EXCEEDED The index of DCPUCR's protocol machine is invalid.
0xC0120203	TLR_E_PNIO_DCPUCR_RESOURCE_OUT_OF_MEMORY Insufficient memory for request in DCPUCR_Activate_req().
0xC0120204	TLR_E_PNIO_DCPUCR_RESOURCE_STATE_INVALID The state of DCPUCR protocol machine is incorrect for current request.
0xC0120205	TLR_E_PNIO_DCPUCR_RESOURCE_HANDLE_INVALID The handle to DCPUCR protocol machine is invalid.
0xC0120206	TLR_E_PNIO_DCPUCR_TIMER_CREATE_FAILED DCPUCR_Activate_req() was unable to create a TLR-timer.
0xC0120207	TLR_E_PNIO_DCPUCR_TIMER_OUT_OF_MEMORY Insufficient memory to allocate a timer-indication packet.
0xC0120208	TLR_E_PNIO_DCPUCR_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet to be send to another task in DCPUCR.
0xC0120209	TLR_E_PNIO_DCPUCR_PACKET_SEND_FAILED Error while sending a packet to another task in DCPUCR.
0xC012020A	TLR_E_PNIO_DCPUCR_FRAME_OUT_OF_MEMORY DCPUCR was not able to get an Edd_FrameBuffer for sending a packet.
0xC012020B	TLR_E_PNIO_DCPUCR_FRAME_SEND_FAILED An error occurred while DCPUCR was trying to send an Edd_Frame.
0xC012020C	TLR_E_PNIO_DCPUCR_SERVICE_INVALID The DCP-command of received response does not match the outstanding request in DCPUCR.
0xC012020D	TLR_E_PNIO_DCPUCR_WAIT_ACK DCPUCR could not be closed because it is still waiting for an ACK.
0xC0120300	TLR_E_PNIO_DCPUCS_INIT_PARAM_INVALID Invalid parameter (uiMaxUcs) in DCPUCS_ResourceInit().
0xC0120301	TLR_E_PNIO_DCPUCS_INIT_OUT_OF_MEMORY Insufficient memory to initialize DCPUCS protocol machines in DCPUCS_ResourceInit().
0xC0120302	TLR_E_PNIO_DCPUCS_RESOURCE_LIMIT_EXCEEDED There are too many outstanding DCPUCS requests. New requests will not be accepted.
0xC0120303	TLR_E_PNIO_DCPUCS_RESOURCE_OUT_OF_MEMORY Insufficient memory for request in DCPUCS_Activate_req().
0xC0120304	TLR_E_PNIO_DCPUCS_RESOURCE_STATE_INVALID The state of DCPUCS protocol machine is incorrect for current request.
0xC0120305	TLR_E_PNIO_DCPUCS_RESOURCE_HANDLE_INVALID The handle to DCPUCS protocol machine is invalid.

Hexadecimal Value	Definition Description
0xC0120306	TLR_E_PNIO_DCPUCS_TIMER_CREATE_FAILED DCPUCS_Activate_req() was unable to create a TLR-timer.
0xC0120307	TLR_E_PNIO_DCPUCS_TIMER_OUT_OF_MEMORY Insufficient memory for DCPUCS_DataSend_req() to allocate a timer-indication packet.
0xC0120308	TLR_E_PNIO_DCPUCS_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet to be send to another task in DCPUCS.
0xC0120309	TLR_E_PNIO_DCPUCS_PACKET_SEND_FAILED Error while sending a packet to another task in DCPUCS.
0xC012030A	TLR_E_PNIO_DCPUCS_FRAME_OUT_OF_MEMORY DCPUCS was not able to get an Edd_FrameBuffer for sending a packet.
0xC012030B	TLR_E_PNIO_DCPUCS_FRAME_SEND_FAILED An error occurred while DCPUCS was trying to send an Edd_Frame.
0xC012030C	TLR_E_PNIO_DCPUCS_FRAME_TIMEOUT DCPUCS did not get a response to an Edd_Frame send .
0xC0120320	TLR_E_PNIO_DCPUCS_DCP_OPTION_UNSUPPORTED The DCP option to set is not supported by IO-Device.
0xC0120321	TLR_E_PNIO_DCPUCS_DCP_SUBOPTION_UNSUPPORTED The DCP suboption to set is not supported by IO-Device.
0xC0120022	TLR_E_PNIO_DCPUCS_DCP_SUBOPTION_NOT_SET The DCP suboption to set was not set inside IO-Device.
0xC0120023	TLR_E_PNIO_DCPUCS_DCP_RESOURCE_ERROR An internal resource error occured in IO-Device while performing a DCP request.
0xC0120024	TLR_E_PNIO_DCPUCS_DCP_SET_IMPOSSIBLE_LOCAL_REASON The DCP (sub)option could not be set inside IO-Device for IO-Device internal reasons.
0xC0120025	TLR_E_PNIO_DCPUCS_DCP_SET_IMPOSSIBLE_WHILE_OPERATION The DCP (sub)option could not be set inside IO-Device because IO-Device is in operation.

Table 105: Status/Error Codes for DCP Task - PROFINET IO RT IRT Device Protocol API
06

29.5.1 DCP-Task Diagnosis-Codes

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok.
0xC012F001	TLR_E_PNIO_DCP_COMMAND_INVALID Received invalid command in DCP task.
0xC012F010	TLR_DIAG_E_DCP_TASK_UCS_RESOURCE_INIT_FAILED Failed to initialize DCPUCS.
0xC012F011	TLR_DIAG_E_DCP_TASK_UCR_RESOURCE_INIT_FAILED Failed to initialize DCPUCR.
0xC012F012	TLR_DIAG_E_DCP_TASK_MCS_RESOURCE_INIT_FAILED Failed to initialize DCPMCS.
0xC012F013	TLR_DIAG_E_DCP_TASK_MCR_RESOURCE_INIT_FAILED Failed to initialize DCPMCR.
0xC012F014	TLR_DIAG_E_DCP_TASK_CREATE_QUE_FAILED Failed to create message-queue for DCP task.

Table 106: DCP-Task Diagnosis-Codes - PROFINET IO RT IRT Device Protocol API 06

29.6 Status/Error Codes for MGT Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok.
0xC0130001	TLR_E_PNIO_MGT_PACKET_SEND_FAILED ACP_EDDStartDCP_req() was unable to send request packet to DCP-Task.
0xC0130002	TLR_E_PNIO_MGT_WAIT_FOR_PACKET_FAILED
0xC0130003	TLR_E_PNIO_MGT_CMDEV_HANDLE_INVALID
0xC0130004	TLR_E_PNIO_MGT_MAPPER_REGISTER_ERROR
0xC0130005	TLR_E_PNIO_MGT_SERVER_REGISTER_ERROR
0xC0130006	TLR_E_PNIO_MGT_OBJECT_REGISTER_ERROR
0xC0130007	TLR_E_PNIO_MGT_CLIENT_REGISTER_ERROR
0xC0130008	TLR_E_PNIO_MGT_OPCODE_UNKNOWN
0xC0130009	TLR_E_PNIO_MGT_RPCCLIENT_HANDLE_INVALID
0xC013000A	TLR_E_PNIO_MGT_OBJECT_UUID_NOT_FOUND
0xC013000B	TLR_E_PNIO_MGT_ARUUID_NOT_FOUND
0xC013000C	TLR_E_PNIO_MGT_INVALID_PORT_NUMBER
0xC013000D	TLR_E_PNIO_MGT_DRV_EDD_IOCTL_ERROR
0xC013000E	TLR_E_PNIO_MGT_INVALID_SESSION_KEY
0xC013000F	TLR_E_PNIO_MGT_TARGET_UUID_NOT_NIL
0xC0130010	TLR_E_PNIO_NRPM_PARAM_INVALID_INIT Invalid parameter (uiMaxNrpm) in NRPM_ResourceInit().
0xC0130011	TLR_E_PNIO_NRPM_HANDLE_INVALID The handle to NRPM protocol machine is invalid.
0xC0130012	TLR_E_PNIO_NRPM_STATE_INVALID The state of NRPM protocol machine is invalid.
0xC0130013	TLR_E_PNIO_NRPM_IDENTIFY_FLAG_INVALID The identify-flag in NRPM_Init_req() is invalid.
0xC0130014	TLR_E_PNIO_NRPM_RESOURCE_LIMIT_EXCEEDED The requested number of NRPM protocol machines exceeds the highest possible number in NRPM_Init_req().
0xC0130015	TLR_E_PNIO_NRPM_RESOURCE_OUT_OF_MEMORY Insufficient memory in NRPM_Init_req().

Hexadecimal Value	Definition Description
0xC0130016	TLR_E_PNIO_NRPM_PACKET_SEND_FAILED Error while sending a packet to another task in NRPM.
0xC0130017	TLR_E_PNIO_NRPM_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet in NRPM.
0xC0130018	TLR_E_PNIO_NRPM_DCP_TYPE_INVALID Received request with invalid type of DCP request in NRPM.
0xC0130019	TLR_E_PNIO_NRPM_NAME_OF_STATION_INVALID The requested NameOfStation is invalid. Either it has an invalid length or it contains invalid characters.
0xC013001A	TLR_E_PNIO_NRPM_DCP_SET_ERROR The requested DCP Set operation failed.
0xC013001B	TLR_E_PNIO_NRPM_DEVICE_IP_ADDRESS_ALREADY_IN_USE The IP-address the controller shall set for the IO-Device is already in use by another network device.
0xC01300F0	TLR_E_PNIO_MGT_EMPTY_POOL_DETECTED The packet pool of MGT is empty.
0xC01300F1	TLR_E_PNIO_MGT_INVALID_DEV_INDEX The index of the device is invalid.
0xC0130101	TLR_E_PNIO_RMPPM_HANDLE_INVALID The handle to RMPPM is invalid.
0xC0130102	TLR_E_PNIO_RMPPM_STATE_INVALID The state of RMPPM is invalid for current request.
0xC0130103	TLR_E_PNIO_RMPPM_STATE_CLOSING The state of RMPPM is closed
0xC0130104	TLR_E_PNIO_RMPPM_RESOURCE_LIMIT_EXCEEDED The number of RMPPM state-machines is too high.
0xC0130105	TLR_E_PNIO_RMPPM_RESOURCE_OUT_OF_MEMORY Insufficient memory to fulfill the current request in RMPPM.
0xC0130106	TLR_E_PNIO_RMPPM_PACKET_SEND_FAILED Error while sending a packet to another task in RMPPM.
0xC0130107	TLR_E_PNIO_RMPPM_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet in RMPPM.
0xC0130108	TLR_E_PNIO_RMPPM_ROLE_UNSUPPORTED The parameter "role" is unsupported in RMPPM_Init_req_ParameterRole().
0xC0130109	TLR_E_PNIO_RMPPM_ROLE_UNKNOWN The parameter "role" is unknown in RMPPM_Init_req_ParameterRole() .
0xC013010A	TLR_E_PNIO_RMPPM_ROLE_IN_USE The parameter "role" is already in use in RMPPM_Init_req_ParameterRole() .
0xC013010B	TLR_E_PNIO_RMPPM_CONFIG_SEQUENCE Incorrect sequence of configuration in RMPPM_ConfigSet_req().
0xC013010C	TLR_E_PNIO_RMPPM_CONFIG_INVALID_VENDOR_ID Incorrect configuration of Vendor-ID in RMPPM_ConfigSet_req().
0xC013010D	TLR_E_PNIO_RMPPM_CONFIG_INVALID_NAME Incorrect name of station in RMPPM_ConfigSet_req().
0xC013010E	TLR_E_PNIO_RMPPM_CONFIG_INVALID_TYPE Incorrect name of type in RMPPM_ConfigSet_req().
0xC0130110	TLR_E_PNIO_RMPPM_DUPLICATE_NAME_OF_STATION The NameOfStation of IO-Controller is in use by another network device.

Hexadecimal Value	Definition Description
0xC0130111	TLR_E_PNIO_RMPPM_DUPLICATE_IP The IP-address the IO-Controller shall use is in use by another network device.
0xC0130112	TLR_E_PNIO_RMPPM_RPC_PACKET_INVALID The packet length of an RPC-packet received is invalid (most likely too short).
0xC0130113	TLR_E_PNIO_RMPPM_DCP_PACKET_INVALID The packet length of an DCP-packet received is invalid (most likely too short).
0xC0130120	TLR_E_PNIO_RMPPM_INVALID_IP_ADDRESS The IP address is invalid.
0xC0130121	TLR_E_PNIO_RMPPM_INVALID_NETMASK The network mask is invalid.
0xC0130122	TLR_E_PNIO_RMPPM_INVALID_GATEWAY The gateway address is invalid.
0xC0130200	TLR_E_PNIO_NRMC_PARAM_INVALID_INIT
0xC0130201	TLR_E_PNIO_NRMC_HANDLE_INVALID The handle to NRMC is invalid.
0xC0130202	TLR_E_PNIO_NRMC_STATE_INVALID The state of NRMC is invalid for current request.
0xC0130203	TLR_E_PNIO_NRMC_IDENTIFY_FLAG_INVALID
0xC0130204	TLR_E_PNIO_NRMC_RESOURCE_LIMIT_EXCEEDED The number of NRMC state-machines is too high.
0xC0130205	TLR_E_PNIO_NRMC_RESOURCE_OUT_OF_MEMORY Insufficient memory to fulfil the current request in NRMC.
0xC0130206	TLR_E_PNIO_NRMC_PACKET_SEND_FAILED Error while sending a packet to another task in NRMC.
0xC0130207	TLR_E_PNIO_NRMC_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet in NRMC.
0xC0130208	TLR_E_PNIO_NRMC_DCP_TYPE_INVALID

Table 107: Status/Error Codes for MGT Task - - PROFINET IO RT IRT Device Protocol API
06

29.6.1 MGT-Task Diagnosis-Codes

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok.
0xC013F001	TLR_E_PNIO_MGT_COMMAND_INVALID Received invalid command in MGT task.
0xC013F010	TLR_DIAG_E_MGT_TASK_RMPM_RESOURCE_INIT_FAILED Failed to initialize RMPM.
0xC013F011	TLR_DIAG_E_MGT_TASK_NRPM_RESOURCE_INIT_FAILED Failed to initialize NRPM.
0xC013F012	TLR_DIAG_E_MGT_TASK_CREATE_QUE_FAILED Failed to create message-queue for MGT task.
0xC013F013	TLR_DIAG_E_MGT_TASK_IDENT_TCPUDP_QUE_FAILED Failed to get handle to TCP/IP task in MGT task.
0xC013F014	TLR_DIAG_E_MGT_TASK_IDENT_DCP_QUE_FAILED Failed to get handle to DCP task in MGT task.
0xC013F015	TLR_DIAG_E_MGT_TASK_IDENT_EDD_FAILED Failed to identify Drv_EDD in MGT task.
0xC013F016	TLR_DIAG_E_MGT_TASK_IDENT_RPC_QUE_FAILED Failed to get handle to RPC task in MGT task.

Table 108: MGT-Task Diagnosis-Codes - - PROFINET IO RT IRT Device Protocol API 06

30 PROFINET IO RT IRT Device - industrialNETworX Image API

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok.
0xC0300001	TLR_E_PNS_IF_COMMAND_INVALID Invalid command.
0xC0300002	TLR_E_PNS_IF_OS_INIT_FAILED Initialization of PNS Operating system adaptation failed.
0xC0300003	TLR_E_PNS_IF_SET_INIT_IP_FAILED Initialization of PNS IP address failed.
0xC0300004	TLR_E_PNS_IF_PNIO_SETUP_FAILED PROFINET IO-Device Setup failed.
0xC0300005	TLR_E_PNS_IF_DEVICE_INFO_ALREADY_SET Device information set already.
0xC0300006	TLR_E_PNS_IF_SET_DEVICE_INFO_FAILED Setting of device information failed.
0xC0300007	TLR_E_PNS_IF_NO_DEVICE_SETUP PROFINET IO-Device stack is not initialized. Send <i>PNS_IF_SET_DEVICEINFO_REQ</i> before <i>PNS_IF_OPEN_DEVICE_REQ</i> .
0xC0300008	TLR_E_PNS_IF_DEVICE_OPEN_FAILED Opening a device instance failed.
0xC0300009	TLR_E_PNS_IF_NO_DEVICE_INSTANCE No device instance open.
0xC030000A	TLR_E_PNS_IF_PLUG_MODULE_FAILED Plugging a module failed.
0xC030000B	TLR_E_PNS_IF_PLUG_SUBMODULE_FAILED Plugging a submodule failed.
0xC030000C	TLR_E_PNS_IF_DEVICE_START_FAILED Start of PROFINET IO-Device failed.
0xC030000D	TLR_E_PNS_IF_EDD_ENABLE_FAILED Start of network communication failed.
0xC030000E	TLR_E_PNS_IF_ALLOC_MNGMNT_BUFFER_FAILED Allocation of a device instance management buffer failed.
0xC030000F	TLR_E_PNS_IF_DEVICE_HANDLE_NULL Given device handle is NULL.
0xC0300010	TLR_E_PNS_IF_SET_APPL_READY_FAILED Command <i>PNS_IF_SET_APPL_READY_REQ</i> failed.
0xC0300011	TLR_E_PNS_IF_SET_DEVSTATE_FAILED Command <i>PNS_IF_SET_DEVSTATE_REQ</i> failed.
0xC0300012	TLR_E_PNS_IF_PULL_SUBMODULE_FAILED Pulling the submodule failed.
0xC0300013	TLR_E_PNS_IF_PULL_MODULE_FAILED Pulling the module failed.
0xC0300014	TLR_E_PNS_IF_WRONG_DEST_ID Destination ID in command invalid.
0xC0300015	TLR_E_PNS_IF_DEVICE_HANDLE_INVALID Device Handle in command invalid.

Hexadecimal Value	Definition Description
0xC0300016	TLR_E_PNS_IF_CALLBACK_TIMEOUT PNS stack callback timeout.
0xC0300017	TLR_E_PNS_IF_PACKET_POOL_EMPTY PNS_IF packet pool empty.
0xC0300018	TLR_E_PNS_IF_ADD_API_FAILED Command PNS_IF_ADD_API_REQ failed.
0xC0300019	TLR_E_PNS_IF_SET_SUB_STATE_FAILED Setting submodule state failed.
0xC030001A	TLR_E_PNS_IF_NO_NW_DBM_ERROR No network configuration DBM-file.
0xC030001B	TLR_E_PNS_IF_NW_SETUP_TABLE_ERROR Error during reading the "SETUP" table of the network configuration DBM-file .
0xC030001C	TLR_E_PNS_IF_CFG_SETUP_TABLE_ERROR Error during reading the "SETUP" table of the config.xxx DBM-file .
0xC030001D	TLR_E_PNS_IF_NO_CFG_DBM_ERROR No config.xxx DBM-file.
0xC030001E	TLR_E_PNS_IF_DBM_DATASET_ERROR Error getting dataset pointer.
0xC030001F	TLR_E_PNS_IF_SETUPEX_TABLE_ERROR Error getting dataset pointer(<i>SETUP_EX</i> table).
0xC0300020	TLR_E_PNS_IF_AP_TABLE_ERROR Error getting either dataset pointer or number of datasets(<i>AP</i> table).
0xC0300021	TLR_E_PNS_IF_MODULES_TABLE_ERROR Error getting either dataset pointer or number of datasets(<i>MODULE</i> table).
0xC0300022	TLR_E_PNS_IF_SUBMODULES_TABLE_ERROR Error getting either dataset pointer or number of datasets(<i>SUBMODULE</i> table).
0xC0300023	TLR_E_PNS_IF_PNIO_SETUP_ERROR Error setting up PNIO configuration(PNIO_setup()).
0xC0300024	TLR_E_PNS_IF_MODULES_GET_REC Error getting record of " <i>MODULES</i> " linked table.
0xC0300025	TLR_E_PNS_IF_SUBMODULES_GET_REC Error getting record of " <i>SUBMODULES</i> " linked table.
0xC0300026	TLR_E_PNS_IF_PNIOD_MODULE_ID_TABLE_ERROR Error accessing " <i>PNIOD_MODULE_ID</i> " table or table record error.
0xC0300027	TLR_E_PNS_IF_SIGNALS_TABLE_ERROR Error accessing " <i>SIGNALS</i> " table or table record error.
0xC0300028	TLR_E_PNS_IF_MODULES_IO_TABLE_ERROR Error accessing " <i>MODULES_IO</i> " table or table record error.
0xC0300029	TLR_E_PNS_IF_CHANNEL_SETTING_TABLE_ERROR Error accessing " <i>CHANNEL_SETTING</i> " table or table record error.
0xC030002A	TLR_E_PNS_IF_WRITE_DBM Error writing DBM-file.
0xC030002B	TLR_E_PNS_IF_DPM_CONFIG No basic DPM configuration.
0xC030002C	TLR_E_PNS_IF_WATCHDOG Application did not trigger the watchdog.

Hexadecimal Value	Definition Description
0xC030002D	TLR_E_PNS_IF_SIGNALS_SUBMODULES Data length in "SIGNALS" table does not correspond to that in "SUBMODULES" table.
0xC030002E	TLR_E_PNS_IF_READ_DPM_SUBAREA Failed to read DPM subarea.
0xC030002F	TLR_E_PNS_IF_MOD_0_SUB_1 Error configuring Module 0 Submodule 1.
0xC0300030	TLR_E_PNS_IF_SIGNALS_LENGTH Length of I/O signals is bigger then the size of DPM subarea.
0xC0300031	TLR_E_PNS_IF_SUB_TRANSFER_DIRECTION A submodule cannot have input and outputs at the same time.
0xC0300032	TLR_E_PNS_IF_FORMAT_PNVOLUME Error while formatting PNVOLUME.
0xC0300033	TLR_E_PNS_IF_MOUNT_PNVOLUME Error while mounting PNVOLUME.
0xC0300034	TLR_E_PNS_IF_INIT_REMOTE Error during initialization of the remote resources of the stack.
0xC0300035	TLR_E_PNS_IF_WARMSTART_CONFIG_REDUNDANT Warmstart parameters are redundant. The stack was configured with DBM or packets.
0xC0300036	TLR_E_PNS_IF_WARMSTART_PARAMETER Incorrect warmstart parameter(s).
0xC0300037	TLR_E_PNS_IF_SET_APPL_STATE_READY <i>PNIO_set_appl_state_ready()</i> returns error.
0xC0300038	TLR_E_PNS_IF_SET_DEV_STATE <i>PNIO_set_dev_state()</i> returns error.
0xC0300039	TLR_E_PNS_IF_PROCESS_ALARM_SEND <i>PNIO_process_alarm_send()</i> returns error.
0xC030003A	TLR_E_PNS_IF_RET_OF_SUB_ALARM_SEND <i>PNIO_ret_of_sub_alarm_send()</i> returns error.
0xC030003B	TLR_E_PNS_IF_DIAG_ALARM_SEND <i>PNIO_diag_alarm_send()</i> returns error.
0xC030003C	TLR_E_PNS_IF_DIAG_GENERIC_ADD <i>PNIO_diag_generic_add()</i> returns error.
0xC030003D	TLR_E_PNS_IF_DIAG_GENERIC_REMOVE <i>PNIO_diag_generic_remove()</i> returns error.
0xC030003E	TLR_E_PNS_IF_DIAG_CHANNEL_ADD <i>PNIO_diag_channel_add()</i> returns error.
0xC030003F	TLR_E_PNS_IF_DIAG_CHANNEL_REMOVE <i>PNIO_diag_channel_remove()</i> returns error.
0xC0300040	TLR_E_PNS_IF_EXT_DIAG_CHANNEL_ADD <i>PNIO_ext_diag_channel_add()</i> returns error.
0xC0300041	TLR_E_PNS_IF_EXT_DIAG_CHANNEL_REMOVE <i>PNIO_ext_diag_channel_remove()</i> returns error.
0xC0300042	TLR_E_PNS_IF_STATION_NAME_LEN Parameter station name length is incorrect.
0xC0300043	TLR_E_PNS_IF_STATION_NAME Parameter station name is incorrect.

Hexadecimal Value	Definition Description
0xC0300044	TLR_E_PNS_IF_STATION_TYPE_LEN Parameter station type length is incorrect.
0xC0300045	TLR_E_PNS_IF_DEVICE_TYPE Parameter device type is incorrect.
0xC0300046	TLR_E_PNS_IF_ORDER_ID Parameter order id is incorrect.
0xC0300047	TLR_E_PNS_IF_INPUT_STATUS Parameter input data status bytes length is incorrect.
0xC0300048	TLR_E_PNS_IF_OUTPUT_STATUS Parameter output data status bytes length is incorrect.
0xC0300049	TLR_E_PNS_IF_WATCHDOG_PARAMETER Parameter watchdog timing is incorrect(must be >= 10).
0xC030004A	TLR_E_PNS_IF_OUT_UPDATE Parameter output data update timing is incorrect.
0xC030004B	TLR_E_PNS_IF_IN_UPDATE Parameter input data update timing is incorrect.
0xC030004C	TLR_E_PNS_IF_IN_SIZE Parameter input memory area size is incorrect.
0xC030004D	TLR_E_PNS_IF_OUT_SIZE Parameter output memory area size is incorrect.
0xC030004E	TLR_E_PNS_IF_GLOBAL_RESOURCES Unable to allocate memory for global access to local resources.
0xC030004F	TLR_E_PNS_IF_DYNAMIC_CFG_PCK Unable to allocate memory for dynamic configuration packet.
0xC0300050	TLR_E_PNS_IF_DEVICE_STOP Unable to stop device.
0xC0300051	TLR_E_PNS_IF_DEVICE_ID Parameter device id is incorrect.
0xC0300052	TLR_E_PNS_IF_VENDOR_ID Parameter vendor id is incorrect.
0xC0300053	TLR_E_PNS_IF_SYS_START Parameter system start is incorrect.
0xC0300054	TLR_E_PNS_IF_DYN_CFG_IO_LENGTH The length of IO data expected by the controller exceeds the limit specified in warmstart parameters.
0xC0300055	TLR_E_PNS_IF_DYN_CFG_MOD_NUM The count of the IO modules expected by the controller exceeds the supported by the stack count.
0xC0300056	TLR_E_PNS_IF_ACCESS_LOCAL_RSC No global access to local resources.
0xC0300057	TLR_E_PNS_IF_PULL_PLUG Plugging and pulling modules during creation of communication is not allowed.
0xC0300058	TLR_E_PNS_IF_AR_NUM Maximum number of ARs is 1.
0xC0300059	TLR_E_PNS_IF_API_NUM Only API = 0 is supported.
0xC030005A	TLR_E_PNS_IF_ALREADY_OPEN Device is already opened.

Hexadecimal Value	Definition Description
0xC030005B	TLR_E_PNS_IF_API_ADDED Application is already added.
0xC030005C	TLR_E_PNS_IF_CONFIG_MODE Configuration modes should not be mixed(DBM-files,application,warmstart message).
0xC030005D	TLR_E_PNS_IF_UNK_LED_MODE Unknown LED mode.
0xC030005E	TLR_E_PNS_IF_PHYSICAL_LINK Physical link rate is less then 100 Mbit.
0xC030005F	TLR_E_PNS_IF_MAX_SLOT_SUBSLOT Number of slots or subslots too big.
0xC0300060	TLR_E_PNS_IF_AR_REASON_MEM AR error. Out of memory.
0xC0300061	TLR_E_PNS_IF_AR_REASON_FRAME AR error. Add provider or consumer failed.
0xC0300062	TLR_E_PNS_IF_AR_REASON_MISS AR error. Consumer missing.
0xC0300063	TLR_E_PNS_IF_AR_REASON_TIMER AR error. CMI timeout.
0xC0300064	TLR_E_PNS_IF_AR_REASON_ALARM AR error. Alarm open failed.
0xC0300065	TLR_E_PNS_IF_AR_REASON_ALSND AR error. Alarm send confirmation failed.
0xC0300066	TLR_E_PNS_IF_AR_REASON_ALACK AR error. Alarm acknowledge send confirmation failed.
0xC0300067	TLR_E_PNS_IF_AR_REASON_ALLEN AR error. Alarm data too long.
0xC0300068	TLR_E_PNS_IF_AR_REASON_ASRT AR error. Alarm indication error.
0xC0300069	TLR_E_PNS_IF_AR_REASON_RPC AR error. RPC client call confirmation failed.
0xC030006A	TLR_E_PNS_IF_AR_REASON_ABORT AR error. Abort request.
0xC030006B	TLR_E_PNS_IF_AR_REASON_RERUN AR error. Re-Run.
0xC030006C	TLR_E_PNS_IF_AR_REASON_REL AR error. Release indication received.
0xC030006D	TLR_E_PNS_IF_AR_REASON_PAS AR error. Device deactivated.
0xC030006E	TLR_E_PNS_IF_AR_REASON_RMV AR error. Device/AR removed.
0xC030006F	TLR_E_PNS_IF_AR_REASON_PROT AR error. Protocol violation.
0xC0300070	TLR_E_PNS_IF_AR_REASON_NARE AR error. NARE error.
0xC0300071	TLR_E_PNS_IF_AR_REASON_BIND AR error. RPC-Bind error.

Hexadecimal Value	Definition Description
0xC0300072	TLR_E_PNS_IF_AR_REASON_CONNECT AR error. RPC-Connect error.
0xC0300073	TLR_E_PNS_IF_AR_REASON_READ AR error. RPC-Read error.
0xC0300074	TLR_E_PNS_IF_AR_REASON_WRITE AR error. RPC-Write error.
0xC0300075	TLR_E_PNS_IF_AR_REASON_CONTROL AR error. RPC-Control error.
0xC0300076	TLR_E_PNS_IF_AR_REASON_UNKNOWN AR error. Unknown.
0xC0300077	TLR_E_PNS_IF_INIT_WATCHDOG Watchdog initialization failed.
0xC0300078	TLR_E_PNS_IF_NO_PHYSICAL_LINK The Device is not connected to a network.
0xC0300079	TLR_DPM_CYCLIC_IO_RW Failed to copy from DPM or to DPM the cyclic IO data.
0xC030007A	TLR_E_PNS_IF_SUBMODULE Submodule number is wrong.
0xC030007B	TLR_E_PNS_IF_MODULE Module number is wrong.
0xC030007C	TLR_E_PNS_IF_NO_AR The AR was closed or the AR handle is not valid.
0xC030007D	TLR_E_PNS_IF_WRITE_REC_RES_TIMEOUT Timeout while waiting for response to write_record_indication.
0xC030007E	TLR_E_PNS_IF_UNREGISTERED_SENDER The sender of the request is not registered with request <i>PNS_IF_REGISTER_AP_REQ</i> .
0xC030007F	TLR_E_PNS_IF_RECORD_HANDLE_INVALID Unknown record handle.
0xC0300080	TLR_E_PNS_IF_REGISTER_AP Another instance is registered at the moment.
0xC0300081	TLR_E_PNS_IF_UNREGISTER_AP One instance can not unregister another one.
0xC0300082	TLR_E_PNS_IF_CONFIG_DIFFER The Must-configuration differs from the Is-configuration.
0xC0300083	TLR_E_PNS_IF_NO_COMMUNICATION No communication processing.
0xC0300084	TLR_E_PNS_IF_BAD_PARAMETER At least one parameter in a packet was wrong or/and did not meet the requirements.
0xC0300085	TLR_E_PNS_IF_AREA_OVERFLOW Input or Output data requires more space than available.
0xC0300086	TLR_E_PNS_IF_WRM_PCK_SAVE Saving Warmstart Configuration for later use was not successful.
0xC0300087	TLR_E_PNS_IF_AR_REASON_PULLPLUG AR error. Pull and Plug are forbidden after check.rsp and before in-data.ind.
0xC0300088	TLR_E_PNS_IF_AR_REASON_AP_RMV AR error. AP has been removed.

Hexadecimal Value	Definition Description
0xC0300089	TLR_E_PNS_IF_AR_REASON_LNK_DWN AR error. Link "down".
0xC030008A	TLR_E_PNS_IF_AR_REASON_MMAC AR error. Could not register multicast-MAC.
0xC030008B	TLR_E_PNS_IF_AR_REASON_SYNC AR error. Not synchronized (Cannot start companion-AR).
0xC030008C	TLR_E_PNS_IF_AR_REASON_TOPO AR error. Wrong topology (Cannot start companion-AR).
0xC030008D	TLR_E_PNS_IF_AR_REASON_DCP_NAME AR error. DCP. Station Name changed.
0xC030008E	TLR_E_PNS_IF_AR_REASON_DCP_RESET AR error. DCP. Reset to factory-settings.
0xC030008F	TLR_E_PNS_IF_AR_REASON_PRM AR error. Cannot start companion-AR because a 0x8ipp submodule in the first AR /has appl-ready-pending/ is locked/ is wrong or pulled/ .
0xC0300090	TLR_E_PNS_IF_PACKET_MNGMNT Packet management error.
0xC03000B1	TLR_E_PNS_IF_RESET_FACTORY_IND A module was already plugged to the slot.
0xC03000B2	TLR_E_PNS_IF_MODULE_ALREADY_PLUGGED Failed to init the OS adaptation layer.
0xC03000B3	TLR_E_PNS_IF_OSINIT Failed to init the TCPIP adaptation layer.
0xC03000B4	TLR_E_PNS_IF_OSSOCKINIT Failed to init the TCPIP adaptation layer.
0xC03000B5	TLR_E_PNS_IF_INVALID_NETMASK Invalid subnetwork mask.
0xC03000B6	TLR_E_PNS_IF_INVALID_IP_ADDR Invalid IP address.
0xC03000B7	TLR_E_PNS_IF_STA_STARTUP_PARAMETER Erroneous Task start-up parameters.
0xC03000B8	TLR_E_PNS_IF_INIT_LOCAL Failed to initialize the Task local resources.
0xC03000B9	TLR_E_PNS_IF_APP_CONFIG_INCOMPLETE The configuration per packets is incomplete.
0xC03000BA	TLR_E_PNS_IF_INIT_EDD EDD Initialization failed.
0xC03000BB	TLR_E_PNS_IF_DPM_NOT_ENABLED DPM is not enabled.
0xC03000BC	TLR_E_PNS_IF_READ_LINK_STATUS Reading Link Status failed.
0xC03000BD	TLR_E_PNS_IF_INVALID_GATEWAY Invalid gateway address (not reachable with configured netmask).
0xC0300100	TLR_E_PNS_IF_PACKET_SEND_FAILED Error while sending a packet to another task.
0xC0300101	TLR_E_PNS_IF_RESOURCE_OUT_OF_MEMORY Insufficient memory to handle the request.

Hexadecimal Value	Definition Description
0xC0300102	TLR_E_PNS_IF_NO_APPLICATION_REGISTERED No application to send the indication to is registered.
0xC0300103	TLR_E_PNS_IF_INVALID_SOURCE_ID The host-application returned a packet with invalid (changed) SourceID.
0xC0300104	TLR_E_PNS_IF_PACKET_BUFFER_FULL The buffer used to store packets exchanged between host-application and stack is full.
0xC0300105	TLR_E_PNS_IF_PULL_NO_MODULE Pulling the (sub)module failed because no module is plugged into the slot specified.
0xC0300106	TLR_E_PNS_IF_PULL_NO_SUBMODULE Pulling the submodule failed because no submodule is plugged into the subslot specified.
0xC0300107	TLR_E_PNS_IF_PACKET_BUFFER_RESTORE_ERROR The packet buffer storing packets exchanged between host-application and stack returned an invalid packet.
0xC0300108	TLR_E_PNS_IF_DIAG_NO_MODULE Diagnosis data not accepted because no module is plugged into the slot specified.
0xC0300109	TLR_E_PNS_IF_DIAG_NO_SUBMODULE Diagnosis data not accepted because no submodule is plugged into the subslot specified.
0xC030010A	TLR_E_PNS_IF_CYCLIC_EXCHANGE_ACTIVE The services requested is not available while cyclic communication is running.
0xC030010B	TLR_E_PNS_IF_FATAL_ERROR_CLB_ALREADY_REGISTERED This fatal error callback function could not be registered because there is already a function registered.
0xC030010C	TLR_E_PNS_IF_ERROR_STACK_WARMSTART_CONFIGURATION The stack did not accept the warmstart parameters.
0xC030010D	TLR_E_PNS_IF_ERROR_STACK_MODULE_CONFIGURATION The stack did not accept the module configuration packet.
0xC030010E	TLR_E_PNS_IF_CHECK_IND_FOR_UNEXPECTED_MODULE The stack sent a Check Indication for an unexpected module. This module was not part of the CR Info Indication.
0xC030010F	TLR_E_PNS_IF_CHECK_IND_FOR_UNEXPECTED_SUBMODULE The stack sent a Check Indication for an unexpected submodule. This submodule was not part of the CR Info Indication.
0xC0300110	TLR_E_PNS_DIAG_BUFFER_FULL No more diagnosis records can be added to the stack because the maximum amount is already reached.
0xC0300111	TLR_E_PNS_IF_CHECK_IND_FOR_UNEXPECTED_API The stack sent a Check Indication for an unexpected API. This API was not part of the CR Info Indication.
0xC0300112	TLR_E_PNS_IF_DPM_ACCESS_WITH_INVALID_OFFSET The DPM shall be accessed with an invalid data offset.
0xC0300113	TLR_E_PNS_IF_DUPLICATE_INPUT_CR_INFO The stack indicated to CR Info Indications with type input.
0xC0300114	TLR_E_PNS_IF_DUPLICATE_OUTPUT_CR_INFO The stack indicated to CR Info Indications with type output.
0xC0300115	TLR_E_PNS_IF_FAULTY_CR_INFO_IND_RECEIVED The stack indicated a faulty CR Info Indications.
0xC0300116	TLR_E_PNS_IF_CONFIG_RELOAD_RUNNING The request cannot be executed because configuration reload respectively <i>Channellnit</i> is running.

Hexadecimal Value	Definition Description
0xC0300117	TLR_E_PNS_IF_NO_MAC_ADDRESS_SET There is no valid chassis MAC address set Without MAC address the stack will not work.
0xC0300118	TLR_E_PNS_IF_SET_PORT_MAC_NOT_POSSIBLE The Port MAC addresses have to be set before sending Set-Configuration Request to the stack.
0xC030011A	TLR_E_PNS_IF_INVALID_MODULE_CONFIGURATION Evaluating the module configuration failed.
0xC030011B	TLR_E_PNS_IF_CONF_IO_LEN_TO_BIG The sum of IO-data length exceeds the maximum allowed value.
0xC030011C	TLR_E_PNS_IF_NO_MODULE_CONFIGURED The module configuration does not contain at least one module.
0xC030011D	TLR_E_PNS_IF_INVALID_SW_REV_PREFIX The value of bSwRevisionPrefix is invalid.
0xC030011E	TLR_E_PNS_IF_RESERVED_VALUE_NOT_ZERO The value of usReserved it not zero.
0xC030011F	TLR_E_PNS_IF_IDENTIFY_CMDEV_QUEUE_FAILED Identifying the stack message queue CMDEV failed.
0xC0300120	TLR_E_PNS_IF_CREATE_SYNC_QUEUE_FAILED Creating the sync message queue failed.
0xC0300121	TLR_E_PNS_IF_CREATE_ALARM_LOW_QUEUE_FAILED Creating the low alarm message queue failed.
0xC0300122	TLR_E_PNS_IF_CREATE_ALARM_HIGH_QUEUE_FAILED Creating the high alarm message queue failed.
0xC0300123	TLR_E_PNS_IF_CFG_PACKET_TO_SMALL While evaluating SetConfiguration packet the packet length was found smaller than amount of configured modules needs.
0xC0300124	TLR_E_PNS_IF_FATAL_ERROR_OCCURRED A fatal error occurred prior to this request. Therefore this request cannot be fulfilled.
0xC0300125	TLR_E_PNS_IF_SUBMODULE_NOT_IN_CYCLIC_EXCHANGE The request could not be executed because the submodule is not in cyclic data exchange.
0xC0300126	TLR_E_PNS_IF_SERVICE_NOT_AVAILABLE_THROUGH_DPM This service is not available through DPM.
0xC0300127	TLR_E_PNS_IF_INVALID_PARAMETER_VERSION The version of parameters is invalid (most likely too old).
0xC0300128	TLR_E_PNS_IF_DATABASE_USAGE_IS_FORBIDDEN The usage of database is forbidden by task's startup parameters.
0xC0300129	TLR_E_PNS_IF_RECORD_LENGTH_TOO_BIG The amount of record data is too big.
0xC030012A	TLR_E_PNS_IF_IDENTIFY_LLDP_QUEUE_FAILED Identifying the stack message queue LLDP failed.
0xC030012BL	TLR_E_PNS_IF_INVALID_TOTAL_PACKET_LENGTH SetConfiguration Requests total packet length is invalid.
0xC030012CL	TLR_E_PNS_IF_APPLICATION_TIMEOUT The application needed to much time to respond to an indication.
0xC030012DL	TLR_E_PNS_IF_PACKET_BUFFER_INVALID_PACKET The packet buffer storing packets exchanged between host-application and stack returned a faulty packet.

Hexadecimal Value	Definition Description
0xC030012EL	TLR_E_PNS_IF_NO_IO_IMAGE_CONFIGURATION_AVAILABLE The request cannot be handled until a valid IO Image configuration is available.
0xC030012FL	TLR_E_PNS_IF_IO_IMAGE_ALREADY_CONFIGURED A valid IO Image configuration is already available.
0xC0300130L	TLR_E_PNS_IF_INVALID_PDEV_SUBSLOT A submodule may only be plugged into a PDEV-subslot which does not exceed the number of supported interfaces and portnumbers.
0xC0300A03	TLR_E_PNS_IF_CM_AR_REASON_MEM AR Out of memory.
0xC0300A04	TLR_E_PNS_IF_CM_AR_REASON_FRAME AR add provider or consumer failed.
0xC0300A05	TLR_E_PNS_IF_CM_AR_REASON_MISS AR consumer DHT/WDT expired.
0xC0300A06	TLR_E_PNS_IF_CM_AR_REASON_TIMER AR cmi timeout.
0xC0300A07	TLR_E_PNS_IF_CM_AR_REASON_ALARM AR alarm-open failed.
0xC0300A08	TLR_E_PNS_IF_CM_AR_REASON_ALSND AR alarm-send.cnf(-).
0xC0300A09	TLR_E_PNS_IF_CM_AR_REASON_ALACK AR alarm-ack-send.cnf(-).
0xC0300A0A	TLR_E_PNS_IF_CM_AR_REASON_ALLEN AR alarm data too long.
0xC0300A0B	TLR_E_PNS_IF_CM_AR_REASON_ASRT AR alarm.ind(err).
0xC0300A0C	TLR_E_PNS_IF_CM_AR_REASON_RPC AR rpc-client call.cnf(-).
0xC0300A0D	TLR_E_PNS_IF_CM_AR_REASON_ABORT AR abort.req.
0xC0300A0E	TLR_E_PNS_IF_CM_AR_REASON_RERUN AR re-run aborts existing AR.
0xC0300A0F	TLR_E_PNS_IF_CM_AR_REASON_REL AR release.ind received.
0xC0300A10	TLR_E_PNS_IF_CM_AR_REASON_PAS AR device deactivated.
0xC0300A11	TLR_E_PNS_IF_CM_AR_REASON_RMV AR removed.
0xC0300A12	TLR_E_PNS_IF_CM_AR_REASON_PROT AR protocol violation.
0xC0300A13	TLR_E_PNS_IF_CM_AR_REASON_NARE AR name resolution error.
0xC0300A14	TLR_E_PNS_IF_CM_AR_REASON_BIND AR RPC-Bind error.
0xC0300A15	TLR_E_PNS_IF_CM_AR_REASON_CONNECT AR RPC-Connect error.
0xC0300A16	TLR_E_PNS_IF_CM_AR_REASON_READ AR RPC-Read error.

Hexadecimal Value	Definition Description
0xC0300A17	TLR_E_PNS_IF_CM_AR_REASON_WRITE AR RPC-Write error.
0xC0300A18	TLR_E_PNS_IF_CM_AR_REASON_CONTROL AR RPC-Control error.
0xC0300A19	TLR_E_PNS_IF_CM_AR_REASON_PULLPLUG AR forbidden pull or plug after check.rsp and before in-data.ind.
0xC0300A1A	TLR_E_PNS_IF_CM_AR_REASON_AP_RMV AR AP removed.
0xC0300A1B	TLR_E_PNS_IF_CM_AR_REASON_LNK_DWN AR link down.
0xC0300A1C	TLR_E_PNS_IF_CM_AR_REASON_MMAC AR could not register multicast-MAC address.
0xC0300A1D	TLR_E_PNS_IF_CM_AR_REASON_SYNC Not synchronized (cannot start companion-ar).
0xC0300A1E	TLR_E_PNS_IF_CM_AR_REASON_TOPO Wrong topology (cannot start companion-ar).
0xC0300A1F	TLR_E_PNS_IF_CM_AR_REASON_DCP_NAME DCP, station-name changed.
0xC0300A20	TLR_E_PNS_IF_CM_AR_REASON_DCP_RESET DCP, reset to factory-settings.
0xC0300A21	TLR_E_PNS_IF_CM_AR_REASON_PRM 0x8ipp submodule in the first AR has either an appl-ready-pending (erroneous parameterisation) or is locked (no parameterisation) or is wrong or pulled (no parameterisation).
0xC0300A22	TLR_E_PNS_IF_CM_AR_REASON_IRDATA No irdata record yet.
0xC0300A23	TLR_E_PNS_IF_CM_AR_REASON_PDEV Ownership of PDEV.

Table 109: Status/Error Codes Overview - PROFINET IO RT IRT Device - industrialNETworX Image API 04

31 SERCOS III Master Protocol API

31.1 Status/Error Codes `sercosIIIMasterCP-Task`

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0700001	TLR_E_SIII_MA_CP_COMMAND_INVALID Invalid command value.
0xC0700002	TLR_E_SIII_MA_CP_INVALID_STARTUP_PARAMETER Invalid Startup parameter.
0xC0700003	TLR_E_SIII_MA_CP_WAITING_FOR_TOPOLOGY_DETECT Waiting for Topology Detect (CP0).
0xC0700004	TLR_E_SIII_MA_CP_LLD_NOT_STARTED LLD not started.
0xC0700005	TLR_E_SIII_MA_CP_INIT_CALLBACK_HP_FAILED Initialization of HP Callback Failed.
0xC0700006	TLR_E_SIII_MA_CP_INIT_CALLBACK_DEVSTATUS_FAILED Initialization of DevStatus Callback Failed.
0xC0700007	TLR_E_SIII_MA_CP_INIT_CALLBACK_TOPOLOGY_DETECT_FAILED Initialization of Topology Detect Callback Failed.
0xC0700008	TLR_E_SIII_MA_CP_CONFIGURATION_BUFFER_ALREADY_OPEN Configuration Buffer is already open.
0xC0700009	TLR_E_SIII_MA_CP_CONFIGURATION_BUFFER_IS_NOT_OPEN Configuration Buffer is not open.
0xC070000A	TLR_E_SIII_MA_CP_INVALID_SLAVE_ADDRESS Invalid slave address.
0xC070000B	TLR_E_SIII_MA_CP_TELEGRAM_OFFSET_CANNOT_BE_IN_MDT_TELEGRAM Telegram offset cannot be set to MDT telegram.
0xC070000C	TLR_E_SIII_MA_CP_TELEGRAM_OFFSET_CANNOT_BE_IN_AT_TELEGRAM Telegram offset cannot be set to AT telegram.
0xC070000D	TLR_E_SIII_MA_CP_TELEGRAM_OFFSET_HAS_INVALID_TELEGRAM_NO Telegram offset has invalid telegram number.
0xC070000E	TLR_E_SIII_MA_CP_TELEGRAM_OFFSET_HAS_INVALID_OFFSET Telegram offset has invalid offset in frame.
0xC070000F	TLR_E_SIII_MA_CP_MDT_SVCH_TELEGRAM_OFFSET_CANNOT_BE_IN_AT_TELEGRAM MDT ServiceChannel Telegram offset cannot be set to AT telegram.
0xC0700010	TLR_E_SIII_MA_CP_MDT_SVCH_TELEGRAM_OFFSET_HAS_INVALID_TELEGRAM_NO MDT ServiceChannel Telegram offset has invalid telegram number.
0xC0700011	TLR_E_SIII_MA_CP_MDT_SVCH_TELEGRAM_OFFSET_HAS_INVALID_OFFSET MDT ServiceChannel Telegram offset has invalid offset in frame.
0xC0700012	TLR_E_SIII_MA_CP_AT_SVCH_TELEGRAM_OFFSET_CANNOT_BE_IN_MDT_TELEGRAM AT ServiceChannel Telegram offset cannot be set to MDT telegram.
0xC0700013	TLR_E_SIII_MA_CP_AT_SVCH_TELEGRAM_OFFSET_HAS_INVALID_TELEGRAM_NO AT ServiceChannel Telegram offset has invalid telegram number.
0xC0700014	TLR_E_SIII_MA_CP_AT_SVCH_TELEGRAM_OFFSET_HAS_INVALID_OFFSET AT ServiceChannel Telegram offset has invalid offset in frame.
0xC0700015	TLR_E_SIII_MA_CP_DEV_CTRL_TELEGRAM_OFFSET_CANNOT_BE_IN_AT_TELEGRAM DeviceControl Telegram offset cannot be set to AT telegram.
0xC0700016	TLR_E_SIII_MA_CP_DEV_CTRL_TELEGRAM_OFFSET_HAS_INVALID_TELEGRAM_NO DeviceControl Telegram offset has invalid telegram number.
0xC0700017	TLR_E_SIII_MA_CP_DEV_CTRL_TELEGRAM_OFFSET_HAS_INVALID_OFFSET Device Control Telegram offset has invalid offset in frame.
0xC0700018	TLR_E_SIII_MA_CP_DEV_STATUS_TELEGRAM_OFFSET_CANNOT_BE_IN_MDT_TELEGRAM DeviceControl Telegram offset cannot be set to MDT telegram.

Hexadecimal Value	Definition Description
0xC0700019	TLR_E_SIII_MA_CP_DEV_STATUS_TELEGRAM_OFFSET_HAS_INVALID_TELEGRAM_NO DeviceStatus Telegram offset has invalid telegram number.
0xC070001A	TLR_E_SIII_MA_CP_DEV_STATUS_TELEGRAM_OFFSET_HAS_INVALID_OFFSET DeviceStatus Telegram offset has invalid offset in frame.
0xC070001B	TLR_E_SIII_MA_CP_SLAVE_ALREADY_IN_CONFIGURATION Slave already in configuration.
0xC070001C	TLR_E_SIII_MA_CP_SLAVE_NOT_IN_CONFIGURATION Slave is not in configuration.
0xC070001D	TLR_E_SIII_MA_CP_INITCMD_SEGMENT_DOES_NOT_MATCH_FIRST_PACKET InitCmd Segment does not match the first packet.
0xC070001E	TLR_E_SIII_MA_CP_LLD_TO_BE_IMPLEMENTED Unimplemented function detected.
0xC070001F	TLR_E_SIII_MA_CP_LLD_UNKNOWN_ERROR Unknown Error.
0xC0700020	TLR_E_SIII_MA_CP_LLD_OUT_OF_MEMORY Out of memory.
0xC0700021	TLR_E_SIII_MA_CP_LLD_INVALID_SERVICE_CHANNEL Invalid Service Channel Number.
0xC0700022	TLR_E_SIII_MA_CP_LLD_INVALID_DEVICE Invalid Slave Address.
0xC0700023	TLR_E_SIII_MA_CP_LLD_INVALID_PHASE_TRANSITION Invalid Phase transition.
0xC0700024	TLR_E_SIII_MA_CP_LLD_NO_CONFIGURATION_DATA_FOR_CP3_4 No Configuration data for CP3/CP4 available.
0xC0700025	TLR_E_SIII_MA_CP_LLD_INVALID_MDT0_SIZE Invalid MDT0 length.
0xC0700026	TLR_E_SIII_MA_CP_LLD_INVALID_MDT1_SIZE Invalid MDT1 length.
0xC0700027	TLR_E_SIII_MA_CP_LLD_INVALID_MDT2_SIZE Invalid MDT2 length.
0xC0700028	TLR_E_SIII_MA_CP_LLD_INVALID_MDT3_SIZE Invalid MDT3 length.
0xC0700029	TLR_E_SIII_MA_CP_LLD_INVALID_AT0_SIZE Invalid AT0 length.
0xC070002A	TLR_E_SIII_MA_CP_LLD_INVALID_AT1_SIZE Invalid AT1 length.
0xC070002B	TLR_E_SIII_MA_CP_LLD_INVALID_AT2_SIZE Invalid AT2 length.
0xC070002C	TLR_E_SIII_MA_CP_LLD_INVALID_AT3_SIZE Invalid AT3 length.
0xC070002D	TLR_E_SIII_MA_CP_LLD_INVALID_DEVICE_CONTROL_OFFSET_TEL_TYPE Device Control Offset cannot be placed into AT telegram.
0xC070002E	TLR_E_SIII_MA_CP_LLD_INVALID_DEVICE_CONTROL_OFFSET_TEL_NO Telegram Number in Device Control Offset is invalid.
0xC070002F	TLR_E_SIII_MA_CP_LLD_INVALID_DEVICE_CONTROL_OFFSET_OFS_TOO_LOW Frame Offset in Device Control Offset is too low.
0xC0700030	TLR_E_SIII_MA_CP_LLD_INVALID_DEVICE_CONTROL_OFFSET_OFS_TOO_HIGH Frame Offset in Device Control Offset is too high.
0xC0700031	TLR_E_SIII_MA_CP_LLD_INVALID_DEVICE_CONTROL_OFFSET_OFS_NOT_EVEN Frame Offset in Device Control Offset is not word-aligned (16bit word).
0xC0700032	TLR_E_SIII_MA_CP_LLD_INVALID_DEVICE_STATUS_OFFSET_TEL_TYPE Device Status Offset cannot be placed into MDT telegram.
0xC0700033	TLR_E_SIII_MA_CP_LLD_INVALID_DEVICE_STATUS_OFFSET_TEL_NO Telegram Number in Device Status Offset is invalid.

Hexadecimal Value	Definition Description
0xC0700034	TLR_E_SIII_MA_CP_LLD_INVALID_DEVICE_STATUS_OFFSET_OFS_TOO_LOW Frame Offset in Device Status Offset is too low.
0xC0700035	TLR_E_SIII_MA_CP_LLD_INVALID_DEVICE_STATUS_OFFSET_OFS_TOO_HIGH Frame Offset in Device Status Offset is too high.
0xC0700036	TLR_E_SIII_MA_CP_LLD_INVALID_DEVICE_STATUS_OFFSET_OFS_NOT_EVEN Frame Offset in Device Status Offset is not word-aligned (16bit word).
0xC0700037	TLR_E_SIII_MA_CP_LLD_INVALID_MDT_SVC_CHANNEL_OFFSET_TEL_TYPE MDT Service Channel Offset cannot be placed into AT telegram.
0xC0700038	TLR_E_SIII_MA_CP_LLD_INVALID_MDT_SVC_CHANNEL_OFFSET_TEL_NO Telegram Number in MDT Service Channel Offset is invalid.
0xC0700039	TLR_E_SIII_MA_CP_LLD_INVALID_MDT_SVC_CHANNEL_OFFSET_OFS_TOO_LOW Frame Offset in MTD Service Channel Offset is too low.
0xC070003A	TLR_E_SIII_MA_CP_LLD_INVALID_MDT_SVC_CHANNEL_OFFSET_OFS_TOO_HIGH Frame Offset in MDT Service Channel Offset is too high.
0xC070003B	TLR_E_SIII_MA_CP_LLD_INVALID_MDT_SVC_CHANNEL_OFFSET_OFS_NOT_EVEN Frame Offset in MDT Service Channel Offset is not word-aligned (16bit word).
0xC070003C	TLR_E_SIII_MA_CP_LLD_INVALID_AT_SVC_CHANNEL_OFFSET_TEL_TYPE AT Service Channel Offset cannot be placed into MDT telegram.
0xC070003D	TLR_E_SIII_MA_CP_LLD_INVALID_AT_SVC_CHANNEL_OFFSET_TEL_NO Telegram Number in AT Service Channel Offset is invalid.
0xC070003E	TLR_E_SIII_MA_CP_LLD_INVALID_AT_SVC_CHANNEL_OFFSET_OFS_TOO_LOW Frame Offset in AT Service Channel Offset is too low.
0xC070003F	TLR_E_SIII_MA_CP_LLD_INVALID_AT_SVC_CHANNEL_OFFSET_OFS_TOO_HIGH Frame Offset in AT Service Channel Offset is too high.
0xC0700040	TLR_E_SIII_MA_CP_LLD_INVALID_AT_SVC_CHANNEL_OFFSET_OFS_NOT_EVEN Frame Offset in AT Service Channel Offset is not word-aligned (16bit word).
0xC0700041	TLR_E_SIII_MA_CP_LLD_INVALID_MDT_RTDATA_OFFSET_TEL_TYPE MDT Connection Offset cannot be placed into AT telegram.
0xC0700042	TLR_E_SIII_MA_CP_LLD_INVALID_MDT_RTDATA_OFFSET_TEL_NO Telegram Number in MDT Connection Offset is invalid.
0xC0700043	TLR_E_SIII_MA_CP_LLD_INVALID_MDT_RTDATA_OFFSET_OFS_TOO_LOW Frame Offset in MDT Connection Offset is too low.
0xC0700044	TLR_E_SIII_MA_CP_LLD_INVALID_MDT_RTDATA_OFFSET_OFS_TOO_HIGH Frame Offset in MDT Connection Offset is too high.
0xC0700045	TLR_E_SIII_MA_CP_LLD_INVALID_MDT_RTDATA_OFFSET_OFS_NOT_EVEN Frame Offset in AT Connection Offset is not word-aligned (16bit word).
0xC0700046	TLR_E_SIII_MA_CP_LLD_INVALID_AT_RTDATA_OFFSET_TEL_TYPE AT Connection Offset cannot be placed into MDT telegram.
0xC0700047	TLR_E_SIII_MA_CP_LLD_INVALID_AT_RTDATA_OFFSET_TEL_NO Telegram Number in AT Connection Offset is invalid.
0xC0700048	TLR_E_SIII_MA_CP_LLD_INVALID_AT_RTDATA_OFFSET_OFS_TOO_LOW Frame Offset in AT Connection Offset is too low.
0xC0700049	TLR_E_SIII_MA_CP_LLD_INVALID_AT_RTDATA_OFFSET_OFS_TOO_HIGH Frame Offset in AT Connection Offset is too high.
0xC070004A	TLR_E_SIII_MA_CP_LLD_INVALID_AT_RTDATA_OFFSET_OFS_NOT_EVEN Frame Offset in MTD Connection Offset is not word-aligned (16bit word).
0xC070004B	TLR_E_SIII_MA_CP_LLD_OVERLAPPING_REGIONS_DETECTED_IN_MDT_FRAMES Overlapping regions detected within MDT frames.
0xC070004C	TLR_E_SIII_MA_CP_LLD_OVERLAPPING_REGIONS_DETECTED_IN_AT_FRAMES Overlapping regions detected within AT frames.
0xC070004D	TLR_E_SIII_MA_CP_LLD_INVALID_SLAVE_ADDRESS_IN_CP3_4_CONFIG Invalid Slave Address in CP3/CP4 configuration data.
0xC070004E	TLR_E_SIII_MA_CP_LLD_CONFIGURE_NOT_ALLOWED_IN_CURRENT_STATE Configuring CP3/CP4 not allowed in current state.

Hexadecimal Value	Definition Description
0xC070004F	TLR_E_SIII_MA_CP_LLD_BUILDING_COPY_ROUTINES_FAILED Building of copy routines failed.
0xC0700050	TLR_E_SIII_MA_CP_LLD_INVALID_MDT_CONNCTRL_PROCESS_IMAGE_OFFSET Invalid MDT Connection Control Process Image Offset.
0xC0700051	TLR_E_SIII_MA_CP_LLD_INVALID_MDT_RTDATA_PROCESS_IMAGE_OFFSET Invalid MDT RtData Process Image Offset.
0xC0700052	TLR_E_SIII_MA_CP_LLD_INVALID_AT_CONNCTRL_PROCESS_IMAGE_OFFSET Invalid AT Connection Control Process Image Offset.
0xC0700053	TLR_E_SIII_MA_CP_LLD_INVALID_AT_RTDATA_PROCESS_IMAGE_OFFSET Invalid AT RtData Control Process Image Offset.
0xC0700054	TLR_E_SIII_MA_CP_CONFIGURATION_NOT_POSSIBLE_IN_CURRENT_STATE Configuration not possible in current master state.
0xC0700055	TLR_E_SIII_MA_CP_PHASE_CHANGE_IN_PROGRESS Phase Change is in progress.
0xC0700056	TLR_E_SIII_MA_CP_REQUESTED_PHASE_IS_ALREADY_CURRENT_PHASE Requested Phase is already current phase.
0xC0700057	TLR_E_SIII_MA_CP_FINISH_CONFIGURATION_DOWNLOAD_FIRST Finish configuration download first.
0xC0700058	TLR_E_SIII_MA_CP_NO_CONFIGURATION_FOR_CP3_AVAILABLE No configuration for CP3 available.
0xC0700059	TLR_E_SIII_MA_CP_NO_CONFIGURATION_FOR_CP4_AVAILABLE No configuration for CP4 available.
0xC070005A	TLR_E_SIII_MA_CP_INCOMPLETE_INITCMD_DOWNLOAD Incomplete InitCmd Download detected.
0xC070005B	TLR_E_SIII_MA_CP_INVALID_TRANSITION_FLAGS Invalid transition flags specified in InitCmd download.
0xC070005C	TLR_E_SIII_MA_CP_INVALID_INITCMD_LENGTH Invalid length specified in InitCmd download.
0xC070005D	TLR_E_SIII_MA_CP_PHASE_INDS_RECEIVER_LIST_IS_FULL Phase Indication Receiver List is full.
0xC070005E	TLR_E_SIII_MA_CP_APP_NOT_REGISTERED Application queue is not registered.
0xC070005F	TLR_E_SIII_MA_CP_APP_REGISTERED_ALREADY Application queue is registered already.
0x40700060	TLR_I_SIII_MA_CP_BUS_IS_OFF Please issue the BusOn command, since the bus is off.
0xC0700061	TLR_E_SIII_MA_CP_NO_DIAG_ENTRY_AVAILABLE No further diagnostic entries currently available.
0xC0700062	TLR_E_SIII_MA_CP_LOCKED_DUE_TO_ERROR_IN_PREVIOUS_PHASE_SWITCH Locked due to error in previous phase switch.
0xC0700063	TLR_E_SIII_MA_CP_LOCKED_DUE_TO_DPM_WATCHDOG_ERROR Locked due to error on DPM watchdog.
0xC0700064	TLR_E_SIII_MA_CP_BUS_SCAN_NOT_POSSIBLE_WITHOUT_BUS_ON Bus Scan not possible without Bus On.
0xC0700065	TLR_E_SIII_MA_CP_ELECTRONIC_LABEL_NOT_READABLE Electronic Label could not be read.
0xC0700066	TLR_E_SIII_MA_CP_BUS_SCAN_ALREADY_ACTIVE Bus Scan already active.
0xC0700067	TLR_E_SIII_MA_CP_BUS_SCAN_ABORTED Bus Scan aborted.
0xC0700068	TLR_E_SIII_MA_CP_TIMING_PARAMETER_NRT_CHANNEL_EXCEEDS_CYCLE_TIME NRT Channel exceeds cycle time.
0xC0700069	TLR_E_SIII_MA_CP_TIMING_PARAMETER_END_OF_MDT_IS_LATER_THAN_START_OF_AT End of MDT is later than Start Of AT.

Hexadecimal Value	Definition Description
0xC070006A	TLR_E_SIII_MA_CP_TIMING_PARAMETER_END_OF_MDT_EXCEEDS_CYCLE_TIME End of MDT exceeds Cycle Time.
0xC070006B	TLR_E_SIII_MA_CP_TIMING_PARAMETER_START_OF_AT_EXCEEDS_CYCLE_TIME Start Of AT exceeds Cycle Time.
0xC070006C	TLR_E_SIII_MA_CP_TIMING_PARAMETER_END_OF_AT_EXCEEDS_CYCLE_TIME End Of AT exceeds Cycle Time.
0xC070006D	TLR_E_SIII_MA_CP_TIMING_PARAMETER_END_OF_NRT_IS_LATER_THAN_START_OF_NRT End Of NRT is later than Start Of NRT.
0xC070006E	TLR_E_SIII_MA_CP_TIMING_PARAMETER_NRT_CHANNEL_OVERLAPS_MDT_TRANSMISSION NRT Channel overlaps MDT Transmission.
0xC070006F	TLR_E_SIII_MA_CP_TIMING_PARAMETER_NRT_CHANNEL_OVERLAPS_AT_TRANSMISSION NRT Channel overlaps AT Transmission.
0xC0700070	TLR_E_SIII_MA_CP_TIMING_PARAMETER_START_OF_AT_IS_EARLIER_THAN_START_OF_MDT Start Of AT is earlier than Start Of MDT.
0xC0700071	TLR_E_SIII_MA_CP_LOCKED_DUE_PREVIOUS_FATAL_ERROR Locked due previous fatal error.
0xC0700072	TLR_E_SIII_MA_CP_TOPOLOGY_INFO_NOT_VALID_AT_THE_MOMENT Topology Info not valid at the moment.
0xC0700073	TLR_E_SIII_MA_CP_AT_TRANSMISSION_START_TIME_EXCEEDS_CYCLE_TIME AT Transmission Start Time exceeds cycle time.
0xC0700074	TLR_E_SIII_MA_CP_NRT_START_TIME_EXCEEDS_CYCLE_TIME NRT Start Time exceeds cycle time.
0xC0700075	TLR_E_SIII_MA_CP_NRT_END_TIME_EXCEEDS_CYCLE_TIME NRT End Time exceeds cycle time.
0xC0700076	TLR_E_SIII_MA_CP_NRT_START_TIME_IS_GREATER_THAN_NRT_END_TIME NRT End Time is greater than NRT Start Time.

Table 110: Status/Error Codes *SERCOSIII*MasterCP-Task - SERCOS III Master Protocol API 06

31.2 Status/Error Codes `SercosIIIMasterSVC-Task`

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0710001	TLR_E_SIII_MA_SVC_COMMAND_INVALID Invalid command value.
0xC0710002	TLR_E_SIII_MA_SVC_SLAVE_HS_TIMEOUT Slave SVC Handshake Timeout.
0xC0710003	TLR_E_SIII_MA_SVC_SLAVE_BUSY_TIMEOUT Slave SVC Busy Timeout.
0xC0710004	TLR_E_SIII_MA_SVC_SLAVE_ERROR Slave SVC Error.
0xC0710005	TLR_E_SIII_MA_SVC_TRANSFER_ABORTED SVC-Transfer aborted.
0xC0710006	TLR_E_SIII_MA_SVC_INTERN_LOCKED Service Channels internally locked.
0xC0710010	TLR_E_SIII_MA_SVC_MACRO_STEP_OPENIDN_FAILED SVC Macro FSM: OpenIdn Failed.
0xC0710011	TLR_E_SIII_MA_SVC_MACRO_STEP_READATTR_FAILED SVC Macro FSM: ReadAttribute Failed.
0xC0710012	TLR_E_SIII_MA_SVC_MACRO_STEP_GETLL_FAILED SVC Macro FSM: Get ListLength Failed.
0xC0710013	TLR_E_SIII_MA_SVC_MACRO_STEP_ACCESSDATA_FAILED SVC Macro FSM: Data access failed.
0xC0710014	TLR_E_SIII_MA_SVC_INTERNAL_ERROR Internal Error.
0xC0710015	TLR_E_SIII_MA_SVC_SLAVE_VALID_TIMEOUT SVC valid timeout.
0xC0710016	TLR_E_SIII_MA_SVC_INVALID_SENDER Invalid Sender.
0xC0710017	TLR_E_SIII_MA_SVC_ABORT_ALREADY_RUNNING Abort Already Running.
0xC0710018	TLR_E_SIII_MA_SVC_INVALID_ELEMENT The parameter element is wrong.
0xC0710019	TLR_E_SIII_MA_SVC_INVALID_SLAVE_ADDRESS The parameter slave address is wrong.
0xC071001A	TLR_E_SIII_MA_SVC_ATOMIC_TRANSFER_IN_USE Atomic transfer in use.
0xC071001B	TLR_E_SIII_MA_SVC_ABORT_NOT_POSSIBLE Abort not possible.
0xC071001C	TLR_E_SIII_MA_SVC_DESTID_UNEXPECTED Unexpected DestId.
0xC071001D	TLR_E_SIII_MA_SVC_SEQUENCE_UNEXPECTED Unexpected SVC sequence.
0xC071001E	TLR_E_SIII_MA_SVC_CLOSED SVC is closed.
0xC071001F	TLR_E_SIII_MA_SVC_PARAMETER_UNEXPECTED SVC parameter is unexpected.
0xC0710020	TLR_E_SIII_MA_SVC_INVALID_PRIORITY Invalid priority.
0xC0710021	TLR_E_SIII_MA_SVC_INVALID_ISLIST IsList parameter is wrong.
0xC0710022	TLR_E_SIII_MA_SVC_MACRO_TRANSFER_IN_USE A macro transfer is already started.

Hexadecimal Value	Definition Description
0xC0710023	TLR_E_SIII_MA_SVC_INVALID_CP Access the SVC is currently not allowed (wrong CP).

Table 111: Status/Error Codes `SERCOSIIIMasterSVC-Task` - SERCOS III Master Protocol API 06

31.3 Status/Error Codes APM-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0720001	TLR_E_SIII_MA_AP_COMMAND_INVALID Invalid command value.
0xC0720002	TLR_E_SIII_MA_AP_INVALID_STARTUP_PARAMETER Invalid Startup parameter.
0xC0720003	TLR_E_SIII_MA_AP_MDT_PROCESS_DATA_IMAGE_SIZE_NOT_POSSIBLE Output Process Data Image Size not possible (MDT).
0xC0720004	TLR_E_SIII_MA_AP_AT_PROCESS_DATA_IMAGE_SIZE_NOT_POSSIBLE Input Process Data Image Size not possible (AT).
0xC0720005	TLR_E_SIII_MA_AP_LLD_NOT_STARTED SercosIII LLD not started.
0xC0720006	TLR_E_SIII_MA_AP_SET_PHASE_NOT_ALLOWED_DURING_CFG_LOADING Set Phase command not allowed during configuration loading.
0xC0720007	TLR_E_SIII_MA_AP_PACKET_CFG_INTERFACE_NOT_AVAILABLE_DURING_CFG_LOADING Configuration via packets is not available during configuration loading.
0xC0720008	TLR_E_SIII_MA_AP_C1D_DIAGNOSIS_ERROR C1D Diagnosis Error.
0xC0720009	TLR_E_SIII_MA_AP_BUS_SYNC_ERROR_THRESHOLD Bus Sync Error Threshold reached.
0xC072000A	TLR_E_SIII_MA_AP_CHANNEL_INIT Channel-Init detected.
0xC072000B	TLR_E_SIII_MA_AP_CPX_CP0_DEV_STATUS_INVALID_TIMEOUT CPx -> CP0 Dev Status Invalid Timeout.
0xC072000C	TLR_E_SIII_MA_AP_CP1_CP2_DEV_STATUS_INVALID_TIMEOUT CP1 -> CP2 Dev Status Invalid Timeout.
0xC072000D	TLR_E_SIII_MA_AP_CP2_CP3_DEV_STATUS_INVALID_TIMEOUT CP2 -> CP3 Dev Status Invalid Timeout.
0xC072000E	TLR_E_SIII_MA_AP_CP3_CP4_DEV_STATUS_INVALID_TIMEOUT CP3 -> CP4 Dev Status Invalid Timeout.
0xC072000F	TLR_E_SIII_MA_AP_CP1_DEV_STATUS_VALID_TIMEOUT CP1 Dev Status Valid Timeout.
0xC0720010	TLR_E_SIII_MA_AP_CP2_DEV_STATUS_VALID_TIMEOUT CP2 Dev Status Valid Timeout.
0xC0720011	TLR_E_SIII_MA_AP_CP3_DEV_STATUS_VALID_TIMEOUT CP3 Dev Status Valid Timeout.
0xC0720012	TLR_E_SIII_MA_AP_CP4_DEV_STATUS_VALID_TIMEOUT CP4 Dev Status Valid Timeout.
0xC0720013	TLR_E_SIII_MA_AP_CP3_TIMING_CONFIGURATION_ERROR CP3 Timing Configuration Error.
0xC0720014	TLR_E_SIII_MA_AP_CP0_CP1_TOPO_ADDR_INVALID_TIMEOUT CP0 -> CP1 Topology Address Invalid Timeout.
0xC0720015	TLR_E_SIII_MA_AP_UNKNOWN_STATE_CHG_STOPPED_REASON Unknown State Chg Stopped Reason.
0xC0720016	TLR_E_SIII_MA_AP_INITCMD_ERROR Service channel access failed.
0xC0720017	TLR_E_SIII_MA_AP_CONN_LENGTH_ERROR Connection Length mismatch.
0xC0720018	TLR_E_SIII_MA_AP_S_0_127_COMMAND_ERROR S-0-127 Command execution ended with error.
0xC0720019	TLR_E_SIII_MA_AP_S_0_128_COMMAND_ERROR S-0-128 Command execution ended with error.

Hexadecimal Value	Definition Description
0xC072001A	TLR_E_SIII_MA_AP_S_0_1024_COMMAND_ERROR S-0-1024 Command execution ended with error.
0xC072001B	TLR_E_SIII_MA_AP_MDT_NOT_EXCHANGED MDT not exchanged.
0xC072001C	TLR_E_SIII_MA_AP_AT_NOT_EXCHANGED AT not exchanged.
0xC072001D	TLR_E_SIII_MA_AP_FRAME_LOSS Frame Loss.
0xC072001E	TLR_E_SIII_MA_AP_EXT_TRIGGER_TIMEOUT No signal on External Trigger input within timeout.
0xC072001F	TLR_E_SIII_MA_AP_EXT_TRIGGER_LOSS Signal lost on External Trigger input.
0xC0720020	TLR_E_SIII_MA_AP_ALL_SLAVES_LOST All slaves lost.
0xC0720021	TLR_E_SIII_MA_AP_BUS_SCAN_TIMEOUT Bus Scan Timeout.
0xC0720022	TLR_E_SIII_MA_AP_INTERNAL_ERROR Internal Error detected.
0xC0720023	TLR_E_SIII_MA_AP_S_0_1050_X_5_CONN_LENGTH_READ_ERROR Connection Length could not be read due to incorrect configuration.
0xC0724000	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_OPENING_TAG XML structure: Closing Tag does not match opening tag.
0xC0724001	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_NUMBER_FIELD XML structure: Unexpected opening tag in number field.
0xC0724002	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_NUMBER_FIELD XML structure: Unexpected single tag in number field.
0xC0724003	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_NUMBER_FIELD_TAG XML structure: Closing tag does not match number field tag.
0xC0724004	TLR_E_SIII_MA_AP_XML_NUMBER_FIELD_IS_INVALID XML structure: Number Field is invalid.
0xC0724005	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_STRING_FIELD XML structure: Unexpected opening tag in string field.
0xC0724006	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_STRING_FIELD XML structure: Unexpected single tag in string field.
0xC0724007	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_STRING_FIELD_TAG XML structure: Closing tag does not match string field tag.
0xC0724008	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_DATA_FIELD XML structure: Unexpected opening tag in data field.
0xC0724009	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_DATA_FIELD XML structure: Unexpected single tag in data field.
0xC072400A	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_DATA_FIELD_TAG XML structure: Closing tag does not match data field tag.
0xC072400B	TLR_E_SIII_MA_AP_XML_DATA_FIELD_IS_NOT_A_HEX_STRING XML structure: Data field is not a hex string.
0xC072400C	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_SIIICFG_BLOCK XML structure: Unexpected opening tag in SIIICfg block.
0xC072400D	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_SIIICFG_BLOCK XML structure: Unexpected tag in SIIICfg block.
0xC072400E	TLR_E_SIII_MA_AP_XML_UNEXPECTED_CLOSING_TAG_IN_SIIICFG_BLOCK XML structure: Unexpected closing tag in SIIICfg block.
0xC072400F	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_TAG_IN_SIIICFG_BLOCK_SLAVE_PART XML structure: Unexpected closing tag in SIIICfg block (Slave Part).
0xC0724010	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_SIIICFG_TAG XML structure: Closing tag does not match SIIICfg tag.

Hexadecimal Value	Definition Description
0xC0724011	TLR_E_SIII_MA_AP_XML_FILE_IS_NOT_A_SIIICFG_XML XML structure: XML file does not contain a SIIICfg xml.
0xC0724012	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_STD_PARAMS_MASTER_BLOCK XML structure: Unexpected tag in std_params_master block.
0xC0724013	TLR_E_SIII_MA_AP_XML_STD_PARAMS_MASTER_BLOCK_IS_INCOMPLETE XML structure: Incomplete std_params_master block.
0xC0724014	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_STD_PARAMS_MASTER_BLOCK XML structure: Duplicate tag in std_params_master block.
0xC0724015	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_STD_PARAMS_MASTER_TAG XML structure: Closing tag does not match std_params_master tag.
0xC0724016	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_PARAMS_MASTER_BLOCK XML structure: Unexpected single tag in params_master block.
0xC0724017	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_PARAMS_MASTER_BLOCK XML structure: Duplicate tag in params_master block.
0xC0724018	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_PARAMS_MASTER_BLOCK XML structure: Unexpected opening tag in params_master block.
0xC0724019	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_PARAMS_MASTER_TAG XML structure: Closing tag does not match params_master tag.
0xC072401A	TLR_E_SIII_MA_AP_XML_PARAMS_MASTER_BLOCK_IS_INCOMPLETE XML structure: Incomplete params_master block.
0xC072401B	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_SYS_IDN_ENTRY_BLOCK XML structure: Unexpected opening tag in sys_idn_entry block.
0xC072401C	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_SYS_IDN_ENTRY_BLOCK XML structure: Duplicate tag in sys_idn_entry block.
0xC072401D	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_SYS_IDN_ENTRY_BLOCK XML structure: Unexpected single tag in sys_idn_entry block.
0xC072401E	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_SYS_IDN_ENTRY_TAG XML structure: Closing tag does not match sys_idn_entry tag.
0xC072401F	TLR_E_SIII_MA_AP_XML_SYS_IDN_ENTRY_BLOCK_IS_INCOMPLETE XML structure: Incomplete sys_idn_entry block.
0xC0724020	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_SYS_GLOBAL_IDNS_BLOCK XML structure: Unexpected opening tag in sys_global_idns block.
0xC0724021	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_SYS_GLOBAL_IDNS_BLOCK XML structure: Unexpected single tag in sys_global_idns block.
0xC0724022	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_SYS_GLOBAL_IDNS_TAG XML structure: Closing tag does not match sys_global_idns tag.
0xC0724023	TLR_E_SIII_MA_AP_XML_SYS_GLOBAL_IDNS_BLOCK_IS_INCOMPLETE XML structure: Incomplete sys_global_idns block.
0xC0724024	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_MASTER_BLOCK XML structure: Unexpected opening tag in master block.
0xC0724025	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_MASTER_BLOCK XML structure: Unexpected single tag in master block.
0xC0724026	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_MASTER_TAG XML structure: Closing tag does not match master tag.
0xC0724027	TLR_E_SIII_MA_AP_XML_MASTER_BLOCK_IS_INCOMPLETE XML structure: Incomplete master block.
0xC0724028	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_MASTER_BLOCK XML structure: Duplicate tag in master block.
0xC0724029	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_TELEGRAM_ASSIGNMENT_BLOCK XML structure: Unexpected single tag in telegram assignment block.
0xC072402A	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_TELEGRAM_ASSIGNMENT_BLOCK XML structure: Unexpected opening tag in telegram assignment block.

Hexadecimal Value	Definition Description
0xC072402B	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_TELEGRAM_ASSIGNMENT_BLOCK XML structure: Duplicate tag in telegram assignment block.
0xC072402C	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_TELEGRAM_ASSIGNMENT_TAG XML structure: Closing tag does not match telegram assignment tag.
0xC072402D	TLR_E_SIII_MA_AP_XML_TELEGRAM_ASSIGNMENT_IS_INCOMPLETE XML structure: telegram assignment block is incomplete.
0xC072402E	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_STD_PARAMS_SLAVE_BLOCK XML structure: Unexpected single tag in std_params_slave block.
0xC072402F	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_STD_PARAMS_SLAVE_BLOCK XML structure: Unexpected opening tag in std_params_slave block.
0xC0724030	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_STD_PARAMS_SLAVE_BLOCK XML structure: Duplicate tag in std_params_slave block.
0xC0724031	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_STD_PARAMS_SLAVE_TAG XML structure: Closing tag does not match std_params_slave tag.
0xC0724032	TLR_E_SIII_MA_AP_XML_STD_PARAMS_SLAVE_BLOCK_IS_INCOMPLETE XML structure: std_params_slave block is incomplete.
0xC0724033	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_PARAMS_SLAVE_BLOCK XML structure: Unexpected single tag in params_slave block.
0xC0724034	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_PARAMS_SLAVE_BLOCK XML structure: Unexpected opening tag in params_slave block.
0xC0724035	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_PARAMS_SLAVE_BLOCK XML structure: Duplicate tag in params_slave block.
0xC0724036	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_PARAMS_SLAVE_TAG XML structure: Closing tag does not match params_slave tag.
0xC0724037	TLR_E_SIII_MA_AP_XML_PARAMS_SLAVE_BLOCK_IS_INCOMPLETE XML structure: params_slave block is incomplete.
0xC0724038	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_SLAVE_BLOCK XML structure: Unexpected single tag in slave block.
0xC0724039	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_SLAVE_BLOCK XML structure: Unexpected opening tag in slave block.
0xC072403A	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_SLAVE_BLOCK XML structure: Duplicate tag in slave block.
0xC072403B	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_SLAVE_TAG XML structure: Closing tag does not match slave tag.
0xC072403C	TLR_E_SIII_MA_AP_XML_SLAVE_BLOCK_IS_INCOMPLETE XML structure: slave block is incomplete.
0xC072403D	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_IDN_ENTRY_DATA_BLOCK XML structure: Unexpected single tag in idn_entry block.
0xC072403E	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_IDN_ENTRY_DATA_BLOCK XML structure: Unexpected opening tag in idn_entry block.
0xC072403F	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_IDN_ENTRY_DATA_BLOCK XML structure: Duplicate tag in idn_entry block.
0xC0724040	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_IDN_ENTRY_DATA_TAG XML structure: Closing tag does not match idn_entry tag.
0xC0724041	TLR_E_SIII_MA_AP_XML_IDN_ENTRY_BLOCK_DATA_IS_INCOMPLETE XML structure: idn_entry block is incomplete.
0xC0724042	TLR_E_SIII_MA_AP_XML_IDN_ENTRY_BLOCK_HAS_INVALID_ATTRIBUTE XML structure: idn_entry block has invalid attribute.
0xC0724043	TLR_E_SIII_MA_AP_XML_IDN_ENTRY_DATA_BLOCK_HAS_INVALID_DATA XML structure: idn_entry block has invalid data.
0xC0724044	TLR_E_SIII_MA_AP_XML_IDN_ENTRY_DATA_BLOCK_CONTAINS_NON_HEX_DIGIT_CHARACTERS XML structure: idn_entry block contains non-hex digit characters.

Hexadecimal Value	Definition Description
0xC0724045	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_IDN_ENTRY_BLOCK XML structure: Unexpected single tag in idn_entry block.
0xC0724046	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_IDN_ENTRY_BLOCK XML structure: Unexpected opening tag in idn_entry block.
0xC0724047	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_IDN_ENTRY_BLOCK XML structure: Duplicate tag in idn_entry block.
0xC0724048	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_IDN_ENTRY_TAG XML structure: Closing tag does not match idn_entry tag.
0xC0724049	TLR_E_SIII_MA_AP_XML_IDN_ENTRY_BLOCK_IS_INCOMPLETE XML structure: idn_entry block is incomplete.
0xC072404A	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SEQUENCE_OF_TAGS_IN_IDN_ENTRY_BLOCK XML structure: Unexpected sequence of tags in idn_entry block.
0xC072404B	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_IDN_CONFIG_BLOCK XML structure: Unexpected single tag in idn_config block.
0xC072404C	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_IDN_CONFIG_BLOCK XML structure: Unexpected opening tag in idn_config block.
0xC072404D	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_IDN_CONFIG_TAG XML structure: Closing tag does not match idn_config tag.
0xC072404E	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_CONNECTION_ENTRY_BLOCK XML structure: Unexpected single tag in connection_entry block.
0xC072404F	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_CONNECTION_ENTRY_BLOCK XML structure: Unexpected opening tag in connection_entry block.
0xC0724050	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_CONNECTION_ENTRY_BLOCK XML structure: Duplicate tag in connection_entry block.
0xC0724051	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_CONNECTION_ENTRY_TAG XML structure: Closing tag does not match connection_entry tag.
0xC0724052	TLR_E_SIII_MA_AP_XML_CONNECTION_ENTRY_BLOCK_IS_INCOMPLETE XML structure: connection_entry block is incomplete.
0xC0724053	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_CONNECTIONS_BLOCK XML structure: Unexpected single tag in connections block.
0xC0724054	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_CONNECTIONS_BLOCK XML structure: Unexpected opening tag in connections block.
0xC0724055	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_CONNECTIONS_TAG XML structure: Closing tag does not match connections tag.
0xC0724056	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_CONFIG_BLOCK XML structure: Unexpected single tag in config block.
0xC0724057	TLR_E_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_CONFIG_BLOCK XML structure: Unexpected opening tag in config block.
0xC0724058	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_CONFIG_BLOCK XML structure: Duplicate tag in config block.
0xC0724059	TLR_E_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_CONFIG_TAG XML structure: Closing tag does not match config tag.
0xC072405A	TLR_E_SIII_MA_AP_XML_CONFIG_BLOCK_IS_INCOMPLETE XML structure: config block is incomplete.
0xC072405B	TLR_E_SIII_MA_AP_XML_UNEXPECTED_SEQUENCE_OF_TAGS_IN_CONFIG_BLOCK XML structure: Unexpected sequence of tags in config block.
0xC072405C	TLR_E_SIII_MA_AP_XML_INVALID_DATA_LENGTH_OF_SYS_IDN_ENTRY XML structure: Invalid Data Length of Sys Idn Entry.
0xC072405D	TLR_E_SIII_MA_AP_XML_DUPLICATE_TAG_IN_SYS_GLOBAL_IDNS_BLOCK XML structure: Duplicate tag in sys_global_idns block.
0xC072405E	TLR_E_SIII_MA_AP_XML_UNSUPPORTED_IDN_IN_SYS_GLOBAL_IDNS_BLOCK XML structure: Unsupported IDN in sys_global_idns block.
0xC072405F	TLR_E_SIII_MA_AP_XML_INVALID_IDN_DATA_IN_SYS_GLOBAL_IDNS_BLOCK XML structure: Invalid IDN data in sys_global_idns block.

Hexadecimal Value	Definition Description
0xC0724060	TLR_E_SIII_MA_AP_XML_INVALID_TELEGRAM_NUMBER_IN_TELEGRAM_ASSIGNMENT XML structure: Invalid Telegram Number in Telegram Assignment.
0xC0724061	TLR_E_SIII_MA_AP_XML_INVALID_TELEGRAM_OFFSET_IN_TELEGRAM_ASSIGNMENT XML structure: Invalid Telegram Offset in Telegram Assignment.
0xC0724062	TLR_E_SIII_MA_AP_XML_INVALID_VALUE_IN_ACTIVE_FIELD XML structure: Invalid Value in Active Field.
0xC0724063	TLR_E_SIII_MA_AP_XML_INVALID_SERCOS_ADDRESS XML structure: Invalid SERCOS Address in Configuration.
0xC0724064	TLR_E_SIII_MA_AP_XML_INVALID_VALUE_IN_HOTPLUG_FIELD XML structure: Invalid Value in Hot Plug Field.
0xC0724065	TLR_E_SIII_MA_AP_XML_INVALID_VALUE_IN_NRT_SUPPORT_FIELD XML structure: Invalid Value in NRT Support Field.
0xC0724066	TLR_E_SIII_MA_AP_XML_IDN_DATA_LENGTH_INVALID XML structure: IDN Data Length invalid.
0xC0724067	TLR_E_SIII_MA_AP_XML_IDN_PHASE_TRANSITION_INVALID XML structure: IDN Phase Transition invalid.
0xC0724068	TLR_E_SIII_MA_AP_XML_IDN_ELEMENT_INVALID XML structure: IDN Element invalid.
0xC0724069	TLR_E_SIII_MA_AP_XML_CONNECTION_NUMBER_INVALID XML structure: Connection Number invalid.
0xC072406A	TLR_E_SIII_MA_AP_XML_CONNECTION_TELEGRAM_OFFSET_INVALID XML structure: Connection Telegram Offset invalid.
0xC072406B	TLR_E_SIII_MA_AP_XML_CONNECTION_TELEGRAM_NUMBER_INVALID XML structure: Connection Telegram Number invalid.
0xC072406C	TLR_E_SIII_MA_AP_XML_CONNECTION_TELEGRAM_TYPE_INVALID XML structure: Connection Telegram Type invalid.
0xC072406D	TLR_E_SIII_MA_AP_XML_CONNECTION_LENGTH_INVALID XML structure: Connection Length invalid.
0xC072406E	TLR_E_SIII_MA_AP_XML_CONNECTION_RTDATA_DPM_OFFSET_INVALID XML structure: Connection RtData DPM Offset invalid.
0xC072406F	TLR_E_SIII_MA_AP_XML_CONNECTION_CCTRL_DPM_OFFSET_INVALID XML structure: Connection CCtrl DPM Offset invalid.
0xC0724070	TLR_E_SIII_MA_AP_XML_INVALID_SEQUENCE_OF_TAGS_IN_SIIICFG_BLOCK XML structure: Invalid sequence of tags in SIIICfg Block.
0xC0724071	TLR_E_SIII_MA_AP_AT_LEAST_ONE_SLAVE_MISSING At least one slave is missing.
0xC0724072	TLR_E_SIII_MA_AP_BUS_IS_SPLIT_IN_TWO_LINES Bus is split in two lines.
0xC0724073	TLR_E_SIII_MA_AP_NO_SLAVES_CONNECTED No slaves connected.

Table 112: Status/Error Codes APM-Task - SERCOS III Master Protocol API 06

31.4 Status/Error Codes `SercosIIIMasterNRT-Task`

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0790001	TLR_E_SIII_MA_NRT_INVALID_STARTUP_PARAMETER Invalid Startup parameter.
0xC0790002	TLR_E_SIII_MA_NRT_S3FRAMES_NOT_ALLOWED SERCOSIII frames not allowed.
0xC0790003	TLR_E_SIII_MA_NRT_LLD_NOT_STARTED LLD not started.

Table 113: Status/Error Codes `SERCOSIIIMasterNRT-Task` - SERCOS III Master Protocol API 06

32 SERCOS III Slave Protocol API

32.1 Error Codes of the AP-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC0510003	TLR_E_SERCOSIII_EEPROM_UNAVAILABLE Failed to receive the MAC address from the Security EEPROM.
0xC0510004	TLR_E_SERCOSIII_SL_AP_INVALID_DEVICE_ADDRESS At least one of the device addresses in the warmstart packet is invalid.
0xC0510005	TLR_E_SERCOSIII_SL_AP_WATCHDOG_TIME_TOO_LARGE The maximum watchdog is larger than 65535 (ms).
0xC0510006	TLR_E_SERCOSIII_SL_AP_GETTING_PACKET_FAILED An error occurred during packet preparation.
0xC0510007	TLR_E_SERCOSIII_SL_AP_SENDING_PACKET_FAILED An error occurred during while sending a packet.
0xC0510008	TLR_E_SERCOSIII_SL_AP_SVC_ACTIVITY_FAILED An error occurred during processing a SVC-Request.
0xC0510009	TLR_E_SERCOSIII_SL_AP_REGISTER_COM_FAILED An error occurred during register to at the stack (COM-Task).
0xC051000A	TLR_E_SERCOSIII_SL_AP_REGISTER_SVC_FAILED An error occurred during register to at the stack (SVC-Task).
0xC051000B	TLR_E_SERCOSIII_SL_AP_REGISTER_RTD_FAILED An error occurred during register to at the stack (RTD-Task).
0xC051000C	TLR_E_SERCOSIII_SL_AP_INVALID_SLAVE_INDEX The requested slave index is invalid.
0xC051000D	TLR_E_SERCOSIII_SL_AP_WARMSTART_ALREADY_RECEIVED The warmstart packet has already been successfully received. This one is ignored.
0xC051000E	TLR_E_SERCOSIII_SL_AP_WATCHDOG_TIME_TOO_SMALL The maximum watchdog is smaller than 20 (ms).
0xC051000F	TLR_E_SERCOSIII_SL_AP_NO_REALTIMEDATA_CONFIGURED No cyclic data configured because of communication phase smaller the 3.
0xC0510010	TLR_E_SERCOSIII_SL_AP_STACK_ALWAYS_INITIALIZED Stack always initialized due receive channel init.
0xC0510011	TLR_E_SERCOSIII_SL_AP_STACK_CONFIG_IS_LOCKED No changes allowed.

Table 114: SERCOS III Slave AP Task– Status/Error Codes Overview - SERCOS III Slave Protocol API 11

32.2 Error Codes of the RTD-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC050002B	TLR_E_SERCOSIII_SL_RTD_BUFFER_FAIL Error during buffer calculation.
0xC050003B	TLR_E_SERCOSIII_SL_RTD_DIFFERENT_TELEGRAMS Devices not in same telegram.

Table 115: SERCOS III Slave RTD Task– Status/Error Codes Overview - SERCOS III Slave Protocol API 11

32.3 Error Codes of the COM-Task

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
0xC04E0002	TLR_E_SERCOSIII_SL_COM_ADDRESS_INVALID Invalid address received in warmstart.
0xC04E0003	TLR_E_SERCOSIII_SL_COM_OFFLINE_MODE Error in offline mode.
0xC04E0004	TLR_E_SERCOSIII_SL_COM_INIT_WORKINGLIST Error in Working List.
0xC04E0005	TLR_E_SERCOSIII_SL_COM_INIT_HARDWARE Initialize hardware error.
0xC04E0006	TLR_E_SERCOSIII_SL_COM_INIT_CYCLEWATCHDOG Initialize cycle watchdog error.
0xC04E0007	TLR_E_SERCOSIII_SL_COM_INIT_SYNCUNIT Initialize synchronization unit error.
0xC04E0008	TLR_E_SERCOSIII_SL_COM_CP0_MODE Error in CP0.
0xC04E0009	TLR_E_SERCOSIII_SL_COM_CPS01_MODE Error in CP switch 0 to 1.
0xC04E000A	TLR_E_SERCOSIII_SL_COM_CPS12_MODE Error in CP switch 1 to 2.
0xC04E000B	TLR_E_SERCOSIII_SL_COM_CP1_MODE Error in CP1.
0xC04E000C	TLR_E_SERCOSIII_SL_COM_CPS23_MODE Error in CP switch 2 to 3.
0xC04E000D	TLR_E_SERCOSIII_SL_COM_CPS34_MODE Error in CP switch 3 to 4.
0xC04E000E	TLR_E_SERCOSIII_SL_COM_SERCOS_CYCLE_WDG_TRIGGERED SERCOS cycle time out.
0xC04E000F	TLR_E_SERCOSIII_SL_COM_XC_RESTART_FAILED XC reset failed.
0xC04E0010	TLR_E_SERCOSIII_SL_COM_CONFIG_RTD Error in real time data configuration.
0xC04E0011	TLR_E_SERCOSIII_SL_COM_CFG_SYSTIME Wrong values in systime configuration.
0xC04E0012	TLR_E_SERCOSIII_SL_COM_CP2_MODE

Hexadecimal Value	Definition Description
0x00000000	TLR_S_OK Status ok
	Error in CP2.
0xC04E0013	TLR_E_SERCOSIII_SL_COM_FIFO_INIT_FAILED FIFO initialization failed.
0xC04E0014	TLR_E_SERCOSIII_SL_COM_MULTIPLE_TEL_MISS Multiple telegram miss.
0xC04E0015	TLR_E_SERCOSIII_SL_COM_PHY_INIT_FAILED The Initialization of the PHYs failed.
0xC04E0016	TLR_E_SERCOSIII_SL_COM_INTERNAL_ERROR Due an internal error, the start-up of bus-communication is impossible.
0xC04E0017	TLR_E_SERCOSIII_SL_COM_CYCLE_TIME Wrong cycle time in phase 0, 1, 2.
0xC04E0018	TLR_E_SERCOSIII_SL_COM_RTDTOOLONG Length of realtime data above 200 bytes.
0xC04E0019	TLR_E_SERCOSIII_SL_COM_RX_EVENT Cannot create RX_EVENT list.
0xC04E001A	TLR_E_SERCOSIII_SL_COM_INVALID_TEL_CONFIG No valid telegram sequence.
0xC04E001B	TLR_E_SERCOSIII_SL_COM_INIT_ETH_TX_TIMER No valid telegram sequence.

Table 116: SERCOS III Slave COM Task– Status/Error Codes Overview - SERCOS III Slave Protocol API 11

33 SERCOS III Slave Protocol API

33.1 Status/Error Codes AP-Task

Hex Value	Definition / Description
0x00000000	TLR_S_OK Status ok.

Table 117: Status/Error Codes of the SERCOS III Slave AP-Task - SERCOS III Slave Protocol API 04

33.2 Status/Error Codes IDN-Task

Hex Value	Definition / Description
0x00000000	TLR_S_OK Status ok
0xC0850001	TLR_E_SERCOSIII_SL_IDN_COMMAND_INVALID Invalid command.
0xC0850004	TLR_E_SERCOSIII_SL_IDN_ALREADY_EXISTS IDN already exists.
0xC0850005	TLR_E_SERCOSIII_SL_IDN_ATTRIBUTE_INVALID Invalid attribute specified.
0xC0850006	TLR_E_SERCOSIII_SL_IDN_INVALID_MAX_DATA_SIZE_SPECIFIED Invalid max data size specified.
0xC0850007	TLR_E_SERCOSIII_SL_IDN_SLAVE_INDEX_INVALID Slave index invalid.
0xC0850008	TLR_E_SERCOSIII_SL_IDN_UNDEFINED_NOTIFY_ALREADY_IN_USE Undefined notify already in use.
0xC0850009	TLR_E_SERCOSIII_SL_IDN_INVALID_ELEMENT_ID Invalid element id.
0xC085000A	TLR_E_SERCOSIII_SL_IDN_APP_PACKET_RESPONSE_INVALID Application's Response Packet invalid.
0xC085000B	TLR_E_SERCOSIII_SL_IDN_APP_TRANSFER_TOO_LONG Application's Transfer Data too long.
0xC085000C	TLR_E_SERCOSIII_SL_IDN_APP_TRANSFER_LENGTH_WRONG Application's Transfer Data length is invalid.
0xC085000D	TLR_E_SERCOSIII_SL_IDN_APP_MTU_TOO_LOW Application's MTU is too low.
0xC085000E	TLR_E_SERCOSIII_SL_IDN_INVALID_DEST_ID Invalid DestId.
0xC085000F	TLR_E_SERCOSIII_SL_IDN_LISTS_CANNOT_HAVE_A_MINIMUM_VALUE Lists cannot have a minimum value.
0xC0850010	TLR_E_SERCOSIII_SL_IDN_LISTS_CANNOT_HAVE_A_MAXIMUM_VALUE Lists cannot have a maximum value.
0xC0850011	TLR_E_SERCOSIII_SL_IDN_NAME_EXCEEDS_ALLOCATED_LENGTH Name exceeds allocated length.
0xC0850012	TLR_E_SERCOSIII_SL_IDN_UNIT_EXCEEDS_ALLOCATED_LENGTH Unit exceeds allocated length.
0xC0850013	TLR_E_SERCOSIII_SL_IDN_OPDATA_EXCEEDS_ALLOCATED_LENGTH OpData exceeds allocated length.
0xC0850014	TLR_E_SERCOSIII_SL_IDN_INVALID_MAX_LIST_LENGTH Invalid max list length.
0xC0850015	TLR_E_SERCOSIII_SL_IDN_DEFAULT_VALUE_EXCEEDS_ALLOCATED_LENGTH Default value exceeds allocated length.

Hex Value	Definition / Description
0xC0850016	TLR_E_SERCOSIII_SL_IDN_MINIMUM_AND_MAXIMUM_VALUE_MUST_BE_USED_TOGETHER Minimum and maximum value must be used together.
0xC0850017	TLR_E_SERCOSIII_SL_IDN_USER_APPLICATION_TRANSFER_ERROR User application transfer error.
0xC0850018	TLR_E_SERCOSIII_SL_IDN_INTERNALLY_HANDLED_IDN IDN is internally handled.
0xC0851001	TLR_E_SERCOSIII_SL_IDN_NO_IDN IDN not available.
0xC0851009	TLR_E_SERCOSIII_SL_IDN_INVALID_ACCESS_TO_ELEMENT_1 Invalid access to element 1.
0xC0852001	TLR_E_SERCOSIII_SL_IDN_NO_NAME No Name.
0xC0852002	TLR_E_SERCOSIII_SL_IDN_NAME_TRANSMISSION_IS_TOO_SHORT Name transmission is too short.
0xC0852003	TLR_E_SERCOSIII_SL_IDN_NAME_TRANSMISSION_IS_TOO_LONG Name transmission is too long.
0xC0852004	TLR_E_SERCOSIII_SL_IDN_NAME_CANNOT_BE_CHANGED Name cannot be changed (read only).
0xC0852005	TLR_E_SERCOSIII_SL_IDN_NAME_IS_WRITE_PROTECTED_AT_THIS_TIME Name is write protected at this time.
0xC0853002	TLR_E_SERCOSIII_SL_IDN_ATTRIBUTE_TRANSMISSION_IS_TOO_SHORT Attribute transmission is too short.
0xC0853003	TLR_E_SERCOSIII_SL_IDN_ATTRIBUTE_TRANSMISSION_IS_TOO_LONG Attribute transmission is too long.
0xC0853004	TLR_E_SERCOSIII_SL_IDN_ATTRIBUTE_CANNOT_BE_CHANGED Attribute cannot be changed (read only).
0xC0853005	TLR_E_SERCOSIII_SL_IDN_ATTRIBUTE_IS_WRITE_PROTECTED_AT_THIS_TIME Attribute is write protected at this time.
0xC0854001	TLR_E_SERCOSIII_SL_IDN_NO_UNIT No unit.
0xC0854002	TLR_E_SERCOSIII_SL_IDN_UNIT_TRANSMISSION_IS_TOO_SHORT Unit transmission is too short.
0xC0854003	TLR_E_SERCOSIII_SL_IDN_UNIT_TRANSMISSION_IS_TOO_LONG Unit transmission is too long.
0xC0854004	TLR_E_SERCOSIII_SL_IDN_UNIT_CANNOT_BE_CHANGED Unit cannot be changed (read only).
0xC0854005	TLR_E_SERCOSIII_SL_IDN_UNIT_IS_WRITE_PROTECTED_AT_THIS_TIME Unit is write protected at this time.
0xC0855001	TLR_E_SERCOSIII_SL_IDN_NO_MINIMUM_VALUE No minimum value.
0xC0855002	TLR_E_SERCOSIII_SL_IDN_MINIMUM_VALUE_TRANSMISSION_IS_TOO_SHORT Minimum value transmission is too short.
0xC0855003	TLR_E_SERCOSIII_SL_IDN_MINIMUM_VALUE_TRANSMISSION_IS_TOO_LONG Minimum value transmission is too long.
0xC0855004	TLR_E_SERCOSIII_SL_IDN_MINIMUM_VALUE_CANNOT_BE_CHANGED Minimum value cannot be changed (read only).
0xC0855005	TLR_E_SERCOSIII_SL_IDN_MINIMUM_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME Minimum value is write protected at this time.
0xC0856001	TLR_E_SERCOSIII_SL_IDN_NO_MAXIMUM_VALUE No maximum value.
0xC0856002	TLR_E_SERCOSIII_SL_IDN_MAXIMUM_VALUE_TRANSMISSION_IS_TOO_SHORT Maximum value transmission is too short.
0xC0856003	TLR_E_SERCOSIII_SL_IDN_MAXIMUM_VALUE_TRANSMISSION_IS_TOO_LONG Maximum value transmission is too long.

Hex Value	Definition / Description
0xC0856004	TLR_E_SERCOSIII_SL_IDN_MAXIMUM_VALUE_CANNOT_BE_CHANGED Maximum value cannot be changed (read only).
0xC0856005	TLR_E_SERCOSIII_SL_IDN_MAXIMUM_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME Maximum value is write protected at this time.
0xC0857002	TLR_E_SERCOSIII_SL_IDN_OPDATA_TRANSMISSION_IS_TOO_SHORT Operation data transmission is too short.
0xC0857003	TLR_E_SERCOSIII_SL_IDN_OPDATA_TRANSMISSION_IS_TOO_LONG Operation data transmission is too long.
0xC0857004	TLR_E_SERCOSIII_SL_IDN_OPDATA_CANNOT_BE_CHANGED Operation data cannot be changed (read only).
0xC0857005	TLR_E_SERCOSIII_SL_IDN_OPDATA_IS_WRITE_PROTECTED_AT_THIS_TIME Operation data is write protected at this time.
0xC0857006	TLR_E_SERCOSIII_SL_IDN_OPDATA_IS_LOWER_THAN_MINIMUM_VALUE Operation data is lower than Minimum value.
0xC0857007	TLR_E_SERCOSIII_SL_IDN_OPDATA_IS_HIGHER_THAN_MAXIMUM_VALUE Operation data is higher than Maximum value.
0xC0857008	TLR_E_SERCOSIII_SL_IDN_OPDATA_IS_INVALID Invalid operation data.
0xC0857009	TLR_E_SERCOSIII_SL_IDN_OPDATA_IS_WRITE_PROTECTED_BY_PASSWORD Operation data is write protected by password.
0xC085700A	TLR_E_SERCOSIII_SL_IDN_OPDATA_IS_WRITE_PROTECTED_DUE_CYCLICALLY_CONFIGURED Operation data is write protected. It is configured cyclically.
0xC085700B	TLR_E_SERCOSIII_SL_IDN_OPDATA_INVALID_INDIRECT_ADDRESSING Invalid indirect addressing.
0xC085700C	TLR_E_SERCOSIII_SL_IDN_OPDATA_IS_WRITE_PROTECTED_DUE_OTHER_SETTINGS Operation data is write protected due other settings.
0xC085700D	TLR_E_SERCOSIII_SL_IDN_OPDATA_INVALID_FLOATING_POINT_NUMBER Invalid floating point number.
0xC085700E	TLR_E_SERCOSIII_SL_IDN_OPDATA_IS_WRITE_PROTECTED_AT_PARAMETERIZATION_LEVEL Operation data is write protected at parameterization level.
0xC085700F	TLR_E_SERCOSIII_SL_IDN_OPDATA_IS_WRITE_PROTECTED_AT_OPERATION_LEVEL Operation data is write protected at operation level.
0xC0857010	TLR_E_SERCOSIII_SL_IDN_OPDATA_PROCEDURE_COMMAND_ALREADY_ACTIVE Procedure command already active.
0xC0857011	TLR_E_SERCOSIII_SL_IDN_OPDATA_PROCEDURE_COMMAND_NOT_INTERRUPTIBLE Procedure command not interruptible.
0xC0857012	TLR_E_SERCOSIII_SL_IDN_OPDATA_PROCEDURE_COMMAND_NOT_EXECUTABLE_AT_THIS_TIME Procedure Command is not executable at this time (e.g. wrong slave state).
0xC0857013	TLR_E_SERCOSIII_SL_IDN_OPDATA_PROCEDURE_COMMAND_NOT_EXECUTABLE_INVALID_PARAM Procedure Command is not executable due invalid parameters.

Table 118: Status/Error Codes of the SERCOS III Slave IDN-Task - SERCOS III Slave Protocol API 04

33.3 Status/Error Codes COM-Task

Hex Value	Definition / Description
0x00000000	TLR_S_OK Status ok.

Table 119: Status/Error Codes of the SERCOS III Slave COM-Task - SERCOS III Slave Protocol API 04

33.4 Status/Error Codes Ethernet Interface

Hex Value	Definition / Description
0x00000000	TLR_S_OK Status ok.
0xC05D0001	TLR_E_ETH_INTF_COMMAND_INVALID Invalid command received.
0xC05D0002	TLR_E_ETH_INTF_CONFIG_LOCK Configuration is locked.
0xC05D0003	TLR_E_ETH_INTF_INVALID_PACKET_LENGTH Invalid packet length.
0xC05D0004	TLR_E_ETH_INTF_INVALID_MODE Invalid mode in request.
0xC05D0005	TLR_E_ETH_INTF_PARAM_AUTO_NEGOTIATION_PORT_0 Invalid parameter for auto-negotiation port 0.
0xC05D0006	TLR_E_ETH_INTF_PARAM_AUTO_NEGOTIATION_PORT_1 Invalid parameter for auto-negotiation port 1.
0xC05D0007	TLR_E_ETH_INTF_PARAM_DUPLEX_MODE_PORT_0 Invalid parameter for duplex mode port 0.
0xC05D0008	TLR_E_ETH_INTF_PARAM_DUPLEX_MODE_PORT_1 Invalid parameter for duplex mode port 1.
0xC05D0009	TLR_E_ETH_INTF_PARAM_TRANSMISSION_RATE_PORT_0 Invalid parameter for transmission rate port 0.
0xC05D000A	TLR_E_ETH_INTF_PARAM_TRANSMISSION_RATE_PORT_1 Invalid parameter for transmission rate port 1.
0xC05D000B	TLR_E_ETH_INTF_PARAM_AUTO_CROSSOVER_PORT_0 Invalid parameter for auto cross-over port 0.
0xC05D000C	TLR_E_ETH_INTF_PARAM_AUTO_CROSSOVER_PORT_1 Invalid parameter for auto cross-over port 1.
0xC05D000D	TLR_E_ETH_INTF_NO_CONFIGURATION Task is not configured.
0xC05D000E	TLR_E_ETH_INTF_APP_NOT_REGISTERED No application registered.
0xC05D000F	TLR_E_ETH_INTF_APP_SET_NOT_READY Application set not ready.
0xC05D0010 L	TLR_E_ETH_INTF_LINK_DOWN No Ethernet link.
0xC05D0011	TLR_E_ETH_INTF_GET_SEND_BUFFER Failed to get send buffer.
0xC05D0012	TLR_E_ETH_INTF_SEND_FRAME Failed to send Ethernet frame.
0xC05D0013	TLR_E_ETH_INTF_SET_DRV_EDD_CFG Failed to set driver EDD configuration.
0xC05D0014	TLR_E_ETH_INTF_INVALID_ETH_PORT Invalid parameter for Ethernet port.
0xC05DFFFF	TLR_E_ETH_INTF_UNKNOWN_ERROR Unknown error detected.

Table 120: Status/Error Codes of the Ethernet Interface-Task - SERCOS III Slave Protocol API 04

34 TCP/IP Protocol Interface

Definition / (Value)	Description
TLR_S_OK (0x00000000)	Status ok
TLR_E_UNKNOWN_COMMAND (0xC0000004)	Unknown Command in Packet received.
TLR_E_INVALID_PACKET_LEN (0xC0000007)	Packet length is invalid.
TLR_E_INVALID_PARAMETER (0xC0000009)	Invalid Parameter in Packet found.
TLR_E_REQUEST_RUNNING (0xC000001A)	Request is already running.
TLR_E_DATABASE_ACCESS_FAILED (0xC0000101)	Database access failure.
TLR_E_IP_ERR_INIT_NO_ETHERNET_ADDR (0xC0070034)	There is no Ethernet address (MAC address) available.
TLR_E_IP_ERR_INIT_INVALID_FLAG (0xC0070036)	The start parameters contains one or more unknown flags.
TLR_E_IP_ERR_INIT_INVALID_IP_ADDR (0xC0070037)	The start parameters contains an invalid IP address.
TLR_E_IP_ERR_INIT_INVALID_NETMASK (0xC0070038)	The start parameters contains an invalid subnet mask.
TLR_E_IP_ERR_INIT_INVALID_GATEWAY (0xC0070039)	The start parameters contains an invalid gateway IP address.
TLR_E_IP_ERR_INIT_UNKNOWN_HARDWARE (0xC007003B)	The device type is unknown.
TLR_E_IP_ERR_INIT_NO_IP_ADDR (0xC007003C)	Failed to obtain an IP address from the specified source(s).
TLR_E_IP_ERR_INIT_DRIVER_FAILED (0xC007003D)	The initialization of the driver layer (EDD) is failed.
TLR_E_IP_ERR_INIT_NO_IP_ADDR_CFG (0xC007003E)	There is no source for an IP address (BOOTP, DHCP, IP address parameter) specified.
TLR_E_IP_ERR_ETH_ADDR_INVALID_IP_CMD_SET_PARAM (0xC007007C)	The Ethernet address (MAC address) abEthernetAddr in command TCPIP_IP_CMD_SET_PARAM_REQ is invalid. Invalid means, abEthernetAddr is equal to the broadcast address FF-FF-FF-FF-FF-FF.
TLR_E_IP_ERR_ARP_CACHE_FULL_IP_CMD_SET_PARAM (0xC0070083)	The command TCPIP_IP_CMD_SET_PARAM_REQ could not be executed, because the ARP cache is full. The ARP cache has per default configuration 64 entries.
TLR_E_IP_ERR_ARP_ENTRY_NOT_FOUND_IP_CMD_SET_PARAM (0xC0070086)	The specified ARP entry in command TCPIP_IP_CMD_SET_PARAM_REQ could not be deleted. The ARP entry was not found in ARP cache.
TLR_E_IP_ERR_ARP_ENTRY_NOT_FOUND_IP_CMD_GET_PARAM (0xC0070087)	The requested ARP information in command TCPIP_IP_CMD_GET_PARAM_REQ could not be delivered. The ARP entry was not found in ARP cache.
TLR_E_IP_ERR_DELAYED (0xC00700FE)	Special internal error code returned by IpStart function.
TLR_E_IP_ERR_GENERIC (0xC00700FF)	Special internal error code returned by IpStart function.
TLR_E_TCP_ERR_CODEDIAG_FATAL (0xC0080003)	A fatal error is occurred. Terminate the task.

Definition / (Value)	Description
TLR_E_TCP_TASK_F_INITIALIZATION_FAILED (0xC0080005)	Failed to initialize the task. Accept Init packets and Config packets only.
TLR_E_IP_ERR_INIT_INVALID_SERIAL_NUMBER (0xC0080006)	Invalid serial number.
TLR_E_IP_ERR_INIT_IP_INIT_ERROR (0xC0080007)	Failed to initialize the IP layer - see task status.
TLR_E_TCPIP_TCP_TASK_PROCESS_CANCELED (0xC0080009)	Cancel process is in progress, command can not be executed.
TLR_E_TCPIP_EDD_IDENTIFY_FAILED (0xC008000A)	Failed to identify the EDD (Ethernet Device Driver).
TLR_E_TCPIP_APPLICATION_TIMER_CREATE_FAILED (0xC008000B)	Failed to create an application timer (Timer task).
TLR_E_TCPIP_APPLICATION_TIMER_INIT_PACKET_FAILED (0xC008000C)	Failed to initialize a packet of application timer (Timer task).
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_SOCKET_MAX_CNT (0xC008000D)	Invalid Startup Parameter ulSocketMaxCnt.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_POOL_ELEM_CNT (0xC008000E)	Invalid Startup Parameter ulPoolElemCnt.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_EDD_OUT_BUF_MAX_CNT (0xC008000F)	Invalid Startup Parameter ulEddOutBufMaxCnt.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_ARP_CACHE_SIZE (0xC0080010)	Invalid Startup Parameter ulArpCacheSize.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_QUE_FREE_ELEM_CNT (0xC0080011)	Invalid Startup Parameter ulQueFreeElemCnt.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_TCP_CYCLE_EVENT (0xC0080012)	Invalid Startup Parameter ulTcpCycleEvent.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_QUE_ELEM_CNT_AP (0xC0080014)	Invalid Startup Parameter ulQueElemCnt.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_EDD_QUE_POOL_ELEM_CNT (0xC0080015)	Invalid Startup Parameter ulEddQuePoolElemCnt.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_START_FLAGS (0xC0080016)	Invalid Startup Parameter ulStartFlags. Unknown flags are set.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_EDD_NAME (0xC0080017)	Invalid Startup Parameter pszEddName.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER{EIF_EDD_NAME (0xC0080018)	Invalid Startup Parameter EIF pszEddName.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER{EIF_EDD_INSTANCE (0xC0080019)	Invalid Startup Parameter EIF ulEddInstance.

Definition / (Value)	Description
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_EIF_ETH_INTF_NAME (0xC008001A)	Invalid Startup Parameter EIF pszEifEthIntfName.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_EIF_MODE (0xC008001B)	Invalid Startup Parameter EIF ulEifMode.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_EIF_PORT_RANGE (0xC008001C)	Invalid Startup Parameter EIFs ulEifPortStart, ulEifPortEnd.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_EIF_PORT_NMB (0xC008001D)	Invalid Startup Parameter EIF ulEifPortNmb.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_ARP_TIMEOUT_CACHE (0xC008001E)	Invalid Startup Parameter ulArpTimeoutCache.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_EIF_FLAGS (0xC008001F)	Invalid Startup Parameter EIF ulEifFlags.
TLR_E_TCPIP_INVALID_STARTUP_PARAMETER_HW_NAME_NETX (0xC0080020L)	Invalid Startup Parameter pszHwNameNetX.
TLR_E_TCP_ERR_INIT_IP_TASK_NOT_READY (0xC0080032)	The IP layer is not ready.
TLR_E_TCP_ERR_INIT_IP_TASK_FAILED (0xC0080034)	The initialization of IP layer has failed.
TLR_W_TCP_ERR_INIT_TPIF_INIT_REQ_PCKT (0x80080043)	Warning: A pending application packet has discarded (because of a new application packet).
TLR_E_TCP_ERR_INIT_OS_CYCLETIME (0xC0080044)	The configured operating system cycletime is out of range (0.1 ms ... 20 ms).
TLR_E_TCP_ERR_INIT_OS_AND_TCPUDP_CYCLETIME (0xC0080045)	The combination of configured operating system cycletime and TCP/IP stacks cycletime (startup-parameter ulTcpCycleEvent) is not possible. The operating system cycletime must be smaller or equal than the TCP/IP stacks cycletime.
TLR_E_TCP_ERR_SOCKET_INVALID (0xC0080070)	The socket handle ulDestId is invalid. A further reason for this error: The command (Mode) is not applicable on this socket type (TCP/UDP).
TLR_E_TCP_ERR_OPTION_NOT_SUPPORTED_TCP_CMD_SEND (0xC0080074)	The option parameter ulOptions in command TCPIP_TCP_CMD_SEND_REQ is invalid.
TLR_E_TCP_ERR_PARAMETER_INVALID_TCP_UDP_CMD_SET SOCK_OPTION (0xC0080075)	The parameter in command TCPIP_TCP_UDP_CMD_SET SOCK_OPTION_REQ is invalid.
TLR_E_TCP_ERR_CONN_CLOSED (0xC0080078)	The connection has closed (Graceful close).
TLR_E_TCP_ERR_CONN_RESET (0xC0080079)	The connection has closed by reset (Hard close).
TLR_E_TCP_ERR_PROTOCOL_UNKNOWN_TCP_UDP_CMD_OPEN (0xC008007A)	The protocol parameter ulProtocol in command TCPIP_TCP_UDP_CMD_OPEN_REQ is invalid.
TLR_E_TCP_ERR_NO_SOCKETS_TCP_UDP_CMD_OPEN (0xC008007B)	Command TCPIP_TCP_UDP_CMD_OPEN_REQ: There are no socket handles available.

Definition / (Value)	Description
TLR_E_TCP_ERR_MAX_GROUP_EXCEEDED_ TCP_UDP_CMD_SET_SOCK_OPTION (0xC0080085)	Command TCPIP_TCP_UDP_CMD_SET_SOCK_OPTION_REQ, ulMode = TCP SOCK_ADD_MEMBERSHIP: The maximum number of IP multicast groups has exceeded (Default configuration = 64).
TLR_E_TCP_ERR_DISCARD_KEPT_REQ_CMD (0xC0080086)	A kept request command has discarded. This confirmation has no further meaning for the application, unless the application must give back this packet to their resource pool!
TLR_E_TCP_ERR_UNEXP_ANSWER (0xC0080095)	An unexpected/unknown confirmation command has received.
TLR_E_TCP_TASK_F_NOT_INITIALIZED (0xC00800C8)	The task is not initialized.
TLR_E_TCP_TASK_F_BUSY (0xC00800C9)	The task is busy (intern).
TLR_E_IP_ERR_IP_ADDR_INVALID_ IP_CMD_PING (0xC0070100)	The IP address parameter ulIpAddr in command TCPIP_IP_CMD_PING_REQ is invalid. This means, the IP address ulIpAddr is equal to the TCP/IP stacks own IP address.
TLR_E_TCP_ERR_IP_ADDR_INVALID_ TCP_UDP_CMD_OPEN (0xC0080101)	The IP address parameter ulIpAddr in command TCPIP_TCP_UDP_CMD_OPEN_REQ is invalid. The parameter ulIpAddr must be zero (0.0.0.0) or equal to the TCP/IP stacks own IP address.
TLR_E_TCP_ERR_IP_ADDR_INVALID_ TCP_CMD_CONNECT (0xC0080102)	The IP address parameter ulIpAddr in command TCPIP_TCP_CMD_CONNECT_REQ is invalid. The parameter ulIpAddr must be unequal to the TCP/IP stacks own IP address.
TLR_E_TCP_ERR_IP_ADDR_INVALID_ UDP_CMD_SEND (0xC0080103)	The IP address parameter ulIpAddr in command TCPIP_UDP_CMD_SEND_REQ is invalid or doesn't match to the local sub network. This error occurs, if the IP address is zero (0.0.0.0) or equal to the address of the local subnet.
TLR_E_TCP_ERR_IP_ADDR_INVALID_ TCP_UDP_CMD_SET_SOCK_OPTION (0xC0080104)	The parameter ulMulticastGroup (ulMode = TCP SOCK_ADD_MEMBERSHIP or TCP SOCK_DROP_MEMBERSHIP) in command TCPIP_TCP_UDP_CMD_SET_SOCK_OPTION_REQ is invalid. The parameter ulMulticastGroup must be a valid Multicast address. Valid Multicast addresses are 224.0.0.1 ... 239.255.255.255 (224.0.0.0 is reserved as Base-multicast address).
TLR_E_TCP_ERR_IP_ADDR_INVALID_ NO_GATEWAY (0xC0080106)	The IP address parameter ulIpAddr is invalid, because there is no gateway configured. The parameter ulIpAddr must be inside the local network.
TLR_E_TCP_ERR_PORT_INVALID_ TCP_UDP_CMD_OPEN (0xC0080110)	The port parameter ulPort in command TCPIP_TCP_UDP_CMD_OPEN_REQ is invalid or not available. The parameter ulPort must be in range 0 ... 65535.
TLR_E_TCP_ERR_PORT_INVALID_ TCP_CMD_CONNECT (0xC0080111)	The port parameter ulPort in command TCPIP_TCP_CMD_CONNECT_REQ is invalid or not available. The parameter ulPort must be in range 1 ... 65535.
TLR_E_TCP_ERR_PORT_INVALID_ UDP_CMD_SEND (0xC0080112)	The port parameter ulPort in command TCPIP_UDP_CMD_SEND_REQ is invalid or not available. The parameter ulPort must be in range 0 ... 65535.
TLR_E_IP_ERR_TIMEOUT_INVALID_ IP_CMD_PING (0xC0070120)	The timeout parameter ulTimeout in command TCPIP_IP_CMD_PING_REQ is invalid.
TLR_E_TCP_ERR_TIMEOUT_INVALID_ TCP_UDP_CMD_CLOSE (0xC0080121)	The timeout parameter ulTimeout in command TCPIP_TCP_UDP_CMD_CLOSE_REQ is invalid. Consider the distinction between TCP and UDP sockets! For UDP sockets, ulTimeout must be zero.

Definition / (Value)	Description
TLR_E_TCP_ERR_TIMEOUT_INVALID_TCP_UDP_CMD_CLOSE_ALL (0xC0080122)	The timeout parameter <code>ulTimeout</code> in command <code>TCPIP_TCP_UDP_CMD_CLOSE_ALL_REQ</code> is invalid.
TLR_E_TCP_ERR_TIMEOUT_INVALID_TCP_CMD_WAIT_CONNECT (0xC0080123)	The timeout parameter <code>ulTimeoutSend</code> and/or <code>ulTimeoutListen</code> in command <code>TCPIP_TCP_CMD_WAIT_CONNECT_REQ</code> is invalid.
TLR_E_TCP_ERR_TIMEOUT_INVALID_TCP_CMD_CONNECT (0xC0080124)	The timeout parameter <code>ulTimeoutSend</code> and/or <code>ulTimeoutConnect</code> in command <code>TCPIP_TCP_CMD_CONNECT_REQ</code> is invalid.
TLR_E_TCP_ERR_TIMEOUT_INVALID_TCP_UDP_CMD_SET_SOCKET_OPTION (0xC0080125)	The timeout parameter <code>ulTimeoutSend</code> (<code>ulMode = TCP_SOCKET_SEND_TIMEOUT</code>) or <code>ulTimeoutInactive</code> (<code>ulMode = TCP_SOCKET_INACTIVE_TIMEOUT</code>) or <code>ulTimeoutKeepAlive</code> (<code>ulMode = TCP_SOCKET_KEEPA_LIVE_TIMEOUT</code>) in command <code>TCPIP_TCP_UDP_CMD_SET_SOCKET_OPTION_REQ</code> is invalid.
TLR_E_IP_ERR_MODE_UNKNOWN_IP_CMD_SET_PARAM (0xC0070130)	The mode parameter <code>ulMode</code> in command <code>TCPIP_IP_CMD_SET_PARAM_REQ</code> is invalid.
TLR_E_IP_ERR_MODE_UNKNOWN_IP_CMD_GET_PARAM (0xC0070131)	The mode parameter <code>ulMode</code> in command <code>TCPIP_IP_CMD_GET_PARAM_REQ</code> is invalid.
TLR_E_TCP_ERR_MODE_UNKNOWN_TCP_UDP_CMD_SET_SOCKET_OPTION (0xC0080132)	The mode parameter <code>ulMode</code> in command <code>TCPIP_TCP_UDP_CMD_SET_SOCKET_OPTION_REQ</code> is invalid.
TLR_E_TCP_ERR_MODE_UNKNOWN_TCP_UDP_CMD_GET_SOCKET_OPTION (0xC0080133)	The mode parameter <code>ulMode</code> in command <code>TCPIP_TCP_UDP_CMD_GET_SOCKET_OPTION_REQ</code> is invalid.
TLR_E_TCP_ERR_MODE_UNKNOWN_FATAL_DUMMY (0xC0080134)	Internal fatal error in module <code>TcpipTcphdlPckt.c!</code>
TLR_E_TCP_ERR_MAX_DATA_LEN_EXCEEDED_TCP_CMD_SEND (0xC0080140)	The maximum TCP data count <code>n</code> in command <code>TCPIP_TCP_CMD_SEND_REQ</code> has exceeded. See parameter <code>ulLen</code> . The maximum value for <code>n</code> is <code>TCPIP_MAX_TCP_DATA_CNT</code> (1460).
TLR_E_TCP_ERR_MAX_DATA_LEN_EXCEEDED_UDP_CMD_SEND (0xC0080141)	The maximum UDP data count <code>n</code> in command <code>TCPIP_UDP_CMD_SEND_REQ</code> has exceeded. See parameter <code>ulLen</code> . The maximum value for <code>n</code> is <code>TCPIP_MAX_UDP_DATA_CNT</code> (1472).
TLR_E_IP_ERR_INIT_INVALID_FLAGS_IP_CONFIG (0xC0070150)	The start parameters configures an invalid flag combination for the manual IP configuration (<code>IP_CFG_FLAG_IP_ADDR</code> , <code>IP_CFG_FLAG_NET_MASK</code> , <code>IP_CFG_FLAG_GATEWAY</code>). Valid flag combinations are: - No flag set: No manual configuration - only DHCP and/or BOOTP - <code>IP_CFG_FLAG_IP_ADDR + IP_CFG_FLAG_NET_MASK</code> : Local network without gateway - <code>IP_CFG_FLAG_IP_ADDR + IP_CFG_FLAG_NET_MASK + IP_CFG_FLAG_GATEWAY</code> : Network with gateway.
TLR_E_TCP_ERR_SOCKET_STATE_TCP_CMD_WAIT_CONNECT (0xC0080200)	The command <code>TCPIP_TCP_CMD_WAIT_CONNECT_REQ</code> cannot be executed, because the socket is in an inappropriate state.
TLR_E_TCP_ERR_SOCKET_STATE_TCP_CMD_CONNECT (0xC0080201)	The command <code>TCPIP_TCP_CMD_CONNECT_REQ</code> cannot be executed, because the socket is in an inappropriate state.
TLR_E_TCP_ERR_SOCKET_STATE_TCP_CMD_SEND (0xC0080202)	The command <code>TCPIP_TCP_CMD_SEND_REQ</code> cannot be executed, because the socket is in an inappropriate state.

Definition / (Value)	Description
TLR_E_TCP_ERR_NO_FREE_QUEUE_ELEMENT_TCP_CMD_SEND (0xC0080210)	The TCP send command TCPIP_TCP_CMD_SEND_REQ must be rejected, because the list of free queue elements is empty. Remark: Per default configuration, the initial size of this list is 128. Every send command (TCPIP_TCP_CMD_SEND_REQ or TCPIP_UDP_CMD_SEND_REQ) occupy one queue element, until the confirmation command is given back to the application. To avoid this resource problem, the application must reduce the count of open send jobs over all sockets.
TLR_E_TCP_ERR_NO_FREE_QUEUE_ELEMENT_UDP_CMD_SEND (0xC0080211)	The UDP send command TCPIP_UDP_CMD_SEND_REQ must be rejected, because the list of free queue elements is empty. Remark: Per default configuration, the initial size of this list is 128. Every send command (TCPIP_TCP_CMD_SEND_REQ or TCPIP_UDP_CMD_SEND_REQ) occupy one queue element, until the confirmation command is given back to the application. To avoid this resource problem, the application must reduce the count of open send jobs over all sockets.
TLR_E_TCP_ERR_NO_ETH_OUT_BUFFER_UDP_CMD_SEND (0xC0080212)	The UDP send command TCPIP_UDP_CMD_SEND_REQ must be rejected, because all outgoing Ethernet buffers are occupied.
TLR_E_TCP_ERR_NO_FREE_RESOURCE_FOR_ARP_REQ_INTF (0xC0080213)	The command TCPIP_IP_CMD_SET_PARAM_REQ in mode IP_PRM_SEND_ARP_REQ/ IP_PRM_SEND_ARP_TMT_REQ must be rejected, because all free resources for this command are occupied. A maximum of 128 parallel jobs is possible.
TLR_E_TCP_ERR_ETH_OUT_SEND_BUFFER (0xC0080214)	The send of the outgoing Ethernet buffer has failed. The reason of this error is normally a resource problem - there is no EDD buffer available.
TLR_E_TCP_ERR_MCAST_CREATE (0xC0080220)	Failed to create an IP Multicast group.
TLR_E_IP_ERR_DEST_UNREACHABLE_IP_CMD_PING (0xC0070300)	The target IP address ulIpAddr in command TCPIP_IP_CMD_PING_REQ is not reachable.
TLR_E_TCP_ERR_DEST_UNREACHABLE_TCP_UDP_CMD_CLOSE (0xC0080301)	Command TCPIP_TCP_UDP_CMD_CLOSE_REQ: The destination (host, network, or port) is unreachable.
TLR_E_TCP_ERR_DEST_UNREACHABLE_TCP_UDP_CMD_CLOSE_ALL (0xC0080302)	Command TCPIP_TCP_UDP_CMD_CLOSE_ALL_REQ: The destination (host, network, or port) is unreachable.
TLR_E_TCP_ERR_DEST_UNREACHABLE_TCP_CMD_WAIT_CONNECT (0xC0080303)	Command TCPIP_TCP_CMD_WAIT_CONNECT_REQ: The destination (host, network, or port) is unreachable.
TLR_E_TCP_ERR_DEST_UNREACHABLE_TCP_CMD_CONNECT (0xC0080304)	Command TCPIP_TCP_CMD_CONNECT_REQ: The destination (host, network, or port) is unreachable.
TLR_E_TCP_ERR_DEST_UNREACHABLE_UDP_CMD_SEND (0xC0080305)	Command TCPIP_UDP_CMD_SEND_REQ: The destination (host, network, or port) is unreachable.
TLR_E_IP_ERR_TIMEOUT_IP_CMD_PING (0xC0070310)	The specified timeout ulTimeout in command TCPIP_IP_CMD_PING_REQ has expired. The specified host is not reachable.
TLR_E_TCP_ERR_TIMEOUT_TCP_UDP_CMD_CLOSE (0xC0080311)	The TCP Close timeout has expired. A connection to the remote host could not be closed gracefully within this time. For this timeout, see command TCPIP_TCP_UDP_CMD_CLOSE_REQ, parameter ulTimeout.

Definition / (Value)	Description
TLR_E_TCP_ERR_TIMEOUT_ TCP_UDP_CMD_CLOSE_ALL (0xC0080312)	The TCP Close timeout has expired. One or more connections to remote host(s) could not be closed gracefully within this time. For this timeout, see command TCPIP_TCP_UDP_CMD_CLOSE_ALL_REQ, parameter ulTimeout.
TLR_E_TCP_ERR_TIMEOUT_ TCP_CMD_WAIT_CONNECT (0xC0080313)	The TCP Connect timeout has expired. No remote host has connected within this time. For this timeout, see command TCPIP_TCP_CMD_WAIT_CONNECT_REQ, parameter ulTimeoutListen.
TLR_E_TCP_ERR_TIMEOUT_TCP_CMD_CONNECT (0xC0080314)	The TCP Connect timeout has expired. A connection to the specified remote host could not be established within this time. For this timeout, see command TCPIP_TCP_CMD_CONNECT_REQ, parameter ulTimeoutConnect.
TLR_E_TCP_ERR_TIMEOUT_TCP_CMD_SEND (0xC0080315)	The TCP Send timeout has expired by sending TCP data with command TCPIP_TCP_CMD_SEND_REQ. The remote host has not answered within the Send Timeout. The TCP Send timeout is set in command TCPIP_TCP_CMD_WAIT_CONNECT_REQ or TCPIP_TCP_CMD_CONNECT_REQ, parameter ulTimeoutSend (Default = 31 s).

Table 121: Status/Error Codes Overview - TCP IP Protocol Interface 11

35 Lists

35.1 List of Tables

Table 1: Error Codes - cifX Device Driver – Windows CE DRV 01 (1)	11
Table 2: Error Codes - cifX Device Driver – Windows CE DRV 01 (2)	12
Table 3: Error Codes - cifX Device Driver – Windows CE DRV 01 (3)	13
Table 4: Error Codes - cifX Device Driver – Windows DRV 16 (1)	14
Table 5: Error Codes - cifX Device Driver – Windows DRV 16 (2)	15
Table 6: Error Codes - cifX Device Driver – Windows DRV 16 (3)	16
Table 7: Error Codes – netX Dual-Port Memory Interface DPM 09	19
Table 8: Status/Error Codes Overview - 3964R Protocol API	21
Table 9: Packet Status/Error – ASCII Protocol API	22
Table 10: Status/Error Codes <code>ASIMASTER</code> –Task - AS-Interface Master Protocol API	24
Table 11: Status/Error Codes APM-Task	25
Table 12: Error Messages of the CANopen-APM-Task - CANopen Master Protocol API 08	26
Table 13: Error Messages of the CANopen Master-Task - CANopen Master Protocol API 08	30
Table 14: Error Messages of the CANopen-APS-Task - CANopen Slave Protocol API 06	31
Table 15: Error Messages of the CANopen Slave-Task	33
Table 16: Status/Error Codes CC-Link APS-Task - CC-Link Slave Protocol API 06	35
Table 17: Status/Error Codes CC-Link Slave-Task - CC-Link Slave Protocol API 06	37
Table 18: Status/Error Codes CompoNet AP Task - CompoNet Slave Protocol API 02	38
Table 19: Status/Error Codes CompoNet CPS Task - CompoNet Slave Protocol API 02	39
Table 20: Header Files containing Status/Error Codes - DeviceNet Master Protocol API 05	40
Table 21: Status/Error Codes DevNet AP – Task - DeviceNet Master Protocol API 05	40
Table 22: Status/Error Codes DevNet FAL – Task - DeviceNet Master Protocol API 05	43
Table 23: Status/Error Codes CAN DL – Task - DeviceNet Master Protocol API 05	44
Table 24: Error Codes of the FAL-Task - DeviceNet Slave Protocol API 08	46
Table 25: Error Codes of the AP-Task - DeviceNet Slave Protocol API 08	47
Table 26: Error Codes of the CAN_DL-Task - DeviceNet Slave Protocol API 08	48
Table 27: Status/Error Codes of the EtherCAT Master Stack – Task - EtherCAT Master Protocol API 10	53
Table 28: Error Codes of the EtherCAT Master AP-Task – Task - EtherCAT Master Protocol API 10	54
Table 29: Status/Error Codes Summary of Base Stack - EtherCAT Slave Protocol API 14	57
Table 30: Status/Error Codes Summary of CoE Stack - EtherCAT Slave Protocol API 14	60
Table 31: Status/Error Codes Summary of SoE Stack - EtherCAT Slave Protocol API 14	64
Table 32: Status/Error Codes Summary of Base Stack – EtherCAT Slave - indistriaNETworX Image API 13	67
Table 33: Diagnostic Codes of the Base Stack – EtherCAT Slave - indistriaNETworX Image API 13	69
Table 34: Status/Error Codes Summary of CoE Stack – EtherCAT Slave - indistriaNETworX Image API 13	72
Table 35: Diagnostic Codes of the CoE Stack – EtherCAT Slave - indistriaNETworX Image API 13	73
Table 36: Status/Error Codes Summary of SoE Stack – EtherCAT Slave - indistriaNETworX Image API 13	77
Table 37: Diagnostic Codes of the SoE Stack – EtherCAT Slave - indistriaNETworX Image API 13	79
Table 38: Packet Status/Error Codes Overview - Ethernet Protocol API 05	81
Table 39: Diagnostic Status/Error Codes Overview - Ethernet Protocol API 05	82
Table 40: Status/Error Codes EipObject-Task - EtherNetIP Adapter Protocol API 08	84
Table 41: Diagnostic Codes EipObject-Task - EtherNetIP Adapter Protocol API 08	85
Table 42: Status/Error Codes EipEncap-Task - EtherNetIP Adapter Protocol API 08	87
Table 43: Diagnostic Codes EipEncap-Task - EtherNetIP Adapter Protocol API 08	89
Table 44: Status/Error Codes Codes EipObject-Task - EtherNetIP Scanner Protocol API 09	91
Table 45: Diagnostic Codes EipObject-Task - EtherNetIP Scanner Protocol API 09	92
Table 46: Status/Error Codes EipEncap-Task - EtherNetIP Scanner Protocol API 09	94
Table 47: Diagnostic Codes EipEncap-Task - EtherNetIP Scanner Protocol API 09	96

Table 48: Status/Error codes APM-Task - EtherNetIP Scanner Protocol API 09	97
Table 49: Diagnostic Codes APM-Task - EtherNetIP Scanner Protocol API 09	97
Table 50: General Error Codes according to CIP Standard - EtherNetIP Scanner Protocol API 09	99
Table 51: Status/Error Codes Eip_DLR-Task - EtherNetIP Scanner Protocol API 09	100
Table 52: Event Codes - IO-Link Master API 01	102
Table 53: Error Code to be used in AL_ReadNegCon - IO-Link Master API 01	103
Table 54: Additional Code to be used in AL_ReadNegCon - IO-Link Master API 01	104
Table 55: Status/Error Codes Overview - MODBUS RTU Protocol API 05	106
Table 56: Status/Error Codes OMB-Task - OpenModbusTCP Protocol API 05	110
Table 57: Status/Error Codes OMB_AP-Task - OpenModbusTCP Protocol API 05	111
Table 58: Status/Error Codes - Powerlink Controlled Node Protocol API 07	116
Table 59: Error Messages of the FSPMM-Task - PROFIBUS-DP Master Protocol API 11	118
Table 60: Diagnostic Messages of the FSPMM-Task - PROFIBUS-DP Master Protocol API 11	119
Table 61: Error Messages of the FSPMM-Task - PROFIBUS-DP Master Protocol API 11	120
Table 62: Error Messages of the DL-Task - PROFIBUS-DP Master Protocol API 11	122
Table 63: Diagnostic Messages of the DL-Task - PROFIBUS-DP Master Protocol API 11	122
Table 64: Error Messages of the APM-Task - PROFIBUS-DP Master Protocol API 11	123
Table 65: Diagnostic Messages of the APM-Task - PROFIBUS-DP Master Protocol API 11	124
Table 66: Error Messages of the FSPMS-Task - PROFIBUS-DP Slave Protocol API 10	127
Table 67: Diagnostic Messages of the FSPMM-Task - PROFIBUS-DP Slave Protocol API 10	129
Table 68: Error Messages of the DL-Task - PROFIBUS-DP Slave Protocol API 10	131
Table 69: Diagnostic Codes of the DL-Task - PROFIBUS-DP Slave Protocol API 10	132
Table 70: Error Messages of the APS-Task - PROFIBUS-DP Slave Protocol API 10	133
Table 71: Diagnostic Messages of the APS-Task - PROFIBUS-DP Slave Protocol API 10	133
Table 72: Error Messages of the FSPMS-Task - PROFIBUS-DP Slave - industriaNETworX Image API 10	136
Table 73: Diagnostic Codes of the FSPMS-Task - PROFIBUS-DP Slave - industriaNETworX Image API 10	138
Table 74: Error Messages of the DL-Task - PROFIBUS-DP Slave - industriaNETworX Image API 10	140
Table 75: Diagnostic Messages of the DL-Task - PROFIBUS-DP Slave - industriaNETworX Image API 10	141
Table 76: Error Messages of the APS-Task - PROFIBUS-DP Slave - industriaNETworX Image API 10	142
Table 77: Diagnostic Messages of the APS-Task - PROFIBUS-DP Slave - industriaNETworX Image API 10	142
Table 78: MPI Error Codes - Profibus MPI Protocol API 02	143
Table 79: Error Messages of the DL-Task - Profibus MPI Protocol API 02	145
Table 80: Diagnostic Messages of the DL-Task - Profibus MPI Protocol API 02	146
Table 81: Error Messages of the ACP-Task - PROFINET IO-Controller Protocol API 12	147
Table 82: Diagnostic Messages of the ACP-Task - PROFINET IO-Controller Protocol API 12	148
Table 83: Error Messages of the APCFG-Task - PROFINET IO-Controller Protocol API 12	152
Table 84: Error Messages of the APCTL –Task - PROFINET IO-Controller Protocol API 12	155
Table 85: Error Messages of the CMCTL-Task - PROFINET IO-Controller Protocol API 12	159
Table 86: Diagnostic Messages of the CMCTL –Task - PROFINET IO-Controller Protocol API 12	159
Table 87: Error Messages of the DCP -Task - PROFINET IO-Controller Protocol API 12	161
Table 88: Diagnostic Messages of the EDD-Task - PROFINET IO-Controller Protocol API 12	162
Table 89: Error Messages of the EDD-Task - PROFINET IO-Controller Protocol API 12	162
Table 90: Diagnostic Messages of the EDD-Task - PROFINET IO-Controller Protocol API 12	162
Table 91: Error Messages of the MGT-Task - PROFINET IO-Controller Protocol API 12	164
Table 92: Diagnostic Messages of the MGT-Task - PROFINET IO-Controller Protocol API 12	165
Table 93: Error Messages of the RPC –Task - PROFINET IO-Controller Protocol API 12	167
Table 94: Diagnostic Messages of the RPC-Task - PROFINET IO-Controller Protocol API 12	168
Table 95: Other relevant Error Messages - PROFINET IO-Controller Protocol API 12	171
Table 96: Status/Error Codes Overview - PROFINET IO RT Device V2 Protocol API 14	182
Table 97: Changed Status/Error Codes - PROFINET IO RT Device V2 Protocol API 14	182
Table 98: Status/Error Codes Overview - PROFINET IO RT IRT Device Protocol API 06	193

Table 99: Status/Error Codes for CM-Dev Task - PROFINET IO RT IRT Device Protocol API 06	198
Table 100: CM-Dev-Task Diagnosis-Codes - PROFINET IO RT IRT Device Protocol API 06	199
Table 101: Status/Error Codes for EDD Task - PROFINET IO RT IRT Device Protocol API 06	200
Table 102: EDD-Task Diagnosis-Codes - PROFINET IO RT IRT Device Protocol API 06	200
Table 103: Status/Error Codes for ACP Task - PROFINET IO RT IRT Device Protocol API 06	203
Table 104: ACP-Task Diagnosis-Codes - PROFINET IO RT IRT Device Protocol API 06	204
Table 105: Status/Error Codes for DCP Task - PROFINET IO RT IRT Device Protocol API 06	207
Table 106: DCP-Task Diagnosis-Codes - PROFINET IO RT IRT Device Protocol API 06	208
Table 107: Status/Error Codes for MGT Task - - PROFINET IO RT IRT Device Protocol API 06	211
Table 108: MGT-Task Diagnosis-Codes - - PROFINET IO RT IRT Device Protocol API 06	212
Table 109: Status/Error Codes Overview - PROFINET IO RT IRT Device - industrialNETworX Image API 04	223
Table 110: Status/Error Codes <code>SERCOSIIIMasterCP</code> -Task - SERCOS III Master Protocol API 06	228
Table 111: Status/Error Codes <code>SERCOSIIIMasterSVC</code> -Task - SERCOS III Master Protocol API 06	230
Table 112: Status/Error Codes <code>APM</code> -Task - SERCOS III Master Protocol API 06	236
Table 113: Status/Error Codes <code>SERCOSIIIMasterNRT</code> -Task - SERCOS III Master Protocol API 06	237
Table 114: SERCOS III Slave AP Task– Status/Error Codes Overview - SERCOS III Slave Protocol API 11	238
Table 115: SERCOS III Slave RTD Task– Status/Error Codes Overview - SERCOS III Slave Protocol API 11	239
Table 116: SERCOS III Slave COM Task– Status/Error Codes Overview - SERCOS III Slave Protocol API 11	240
Table 117: Status/Error Codes of the SERCOS III Slave AP-Task - SERCOS III Slave Protocol API 04	241
Table 118: Status/Error Codes of the SERCOS III Slave IDN-Task - SERCOS III Slave Protocol API 04	243
Table 119: Status/Error Codes of the SERCOS III Slave COM-Task - SERCOS III Slave Protocol API 04	243
Table 120: Status/Error Codes of the Ethernet Interface-Task - SERCOS III Slave Protocol API 04	244
Table 121: Status/Error Codes Overview - TCP IP Protocol Interface 11	251

36 Appendix

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