



API

Hilscher status and error codes

Firmware and driver

Hilscher Gesellschaft für Systemautomation mbH
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1 Introduction

1.1 About this document

This document lists status and error codes. The tables contain the values returned

- in the `ulSta` element of the header of a packet or
- from a function call of the cifX Device Driver.

1.2 List of revisions

Rev.	Date	Changes
5	2019-11-21	Section <i>Common status codes</i> [▶ page 9] updated.
		Section <i>OS Abstraction Layer</i> [▶ page 23] updated.
		Section <i>Generic AP</i> [▶ page 25] updated.
		Section <i>CC-Link IE Field Basic</i> [▶ page 30] added.
		Section <i>EtherCAT Master V4 LLD</i> [▶ page 58] updated.
		Section <i>EtherCAT Master V4 AL</i> [▶ page 81] updated.
		Section <i>PROFINET core</i> [▶ page 174] added.
		Section <i>PROFIBUS APS</i> [▶ page 243] updated.
		Section <i>ASCII</i> [▶ page 253] updated.
		Section <i>netPROXY Package OPC UA IOL Adapter</i> [▶ page 295] updated.
		Section <i>netPROXY Package OPC UA netIOL Adapter</i> [▶ page 296] added.
		Section <i>General error codes</i> [▶ page 316] updated.
		Section <i>Driver-related error codes</i> [▶ page 317] updated.

Table 1: List of revisions

1.3 Structure of status and error codes

Status and error codes are a 32-bit value.

Bit	Description
30–31	Severity 00 = Success 01 = Informational 10 = Warning 11 = Error
29	Customer code flag 0 = Standard code 1 = Customer code
28	Reserved always 0
16–27	Facility Location or generator of the status and error code
0–15	Code Status and error code depending on the facility

Table 2: Structure of status and error codes

2 Common

2.1 Common status codes

Hexadecimal value	Definition and description
0x00000000	SUCCESS_HIL_OK Operation succeeded.
0xC0000001	ERR_HIL_FAIL Common error, detailed error information optionally present in the data area of packet.
0xC0000002	ERR_HIL_UNEXPECTED Unexpected failure.
0xC0000003	ERR_HIL_OUTOFMEMORY Ran out of memory.
0xC0000004	ERR_HIL_UNKNOWN_COMMAND Unknown Command in Packet received.
0xC0000005	ERR_HIL_UNKNOWN_DESTINATION Unknown Destination in Packet received.
0xC0000006	ERR_HIL_UNKNOWN_DESTINATION_ID Unknown Destination Id in Packet received.
0xC0000007	ERR_HIL_INVALID_PACKET_LEN Packet length is invalid.
0xC0000008	ERR_HIL_INVALID_EXTENSION Invalid Extension in Packet received.
0xC0000009	ERR_HIL_INVALID_PARAMETER Invalid Parameter in Packet found.
0xC000000A	ERR_HIL_INVALID_ALIGNMENT Invalid alignment.
0xC000000C	ERR_HIL_WATCHDOG_TIMEOUT Watchdog error occurred.
0xC000000D	ERR_HIL_INVALID_LIST_TYPE List type is invalid.
0xC000000E	ERR_HIL_UNKNOWN_HANDLE Handle is unknown.
0xC000000F	ERR_HIL_PACKET_OUT_OF_SEQ A packet index has been not in the expected sequence.
0xC0000010	ERR_HIL_PACKET_OUT_OF_MEMORY The amount of fragmented data contained the packet sequence has been too large.
0xC0000011	ERR_HIL_QUE_PACKETDONE The packet done function has failed.
0xC0000012	ERR_HIL_QUE_SENDBUFFER The sending of a packet has failed.
0xC0000013	ERR_HIL_POOL_PACKET_GET The request of a packet from packet pool has failed.
0xC0000014	ERR_HIL_POOL_PACKET_RELEASE The release of a packet-to-packet pool has failed.
0xC0000015	ERR_HIL_POOL_GET_LOAD The get packet pool load function has failed.
0xC0000016	ERR_HIL_QUE_GET_LOAD The get queue load function has failed.

Hexadecimal value	Definition and description
0xC0000017	ERR_HIL_QUE_WAITFORPACKET The waiting for a packet from queue has failed.
0xC0000018	ERR_HIL_QUE_POSTPACKET The posting of a packet has failed.
0xC0000019	ERR_HIL_QUE_PEEKPACKET Peeking a packet from queue has failed.
0xC000001A	ERR_HIL_REQUEST_RUNNING Request is already running.
0xC000001B	ERR_HIL_CREATE_TIMER Creating a timer failed.
0xC000001C	ERR_HIL_BUFFER_TOO_SHORT Supplied buffer too short for the data.
0xC000001D	ERR_HIL_NAME_ALREADY_EXIST Supplied name already exists.
0xC000001E	ERR_HIL_PACKET_FRAGMENTATION_TIMEOUT The packet fragmentation has timed out.
0xC0000100	ERR_HIL_INIT_FAULT General initialization fault.
0xC0000101	ERR_HIL_DATABASE_ACCESS_FAILED Database access failure.
0xC0000102	ERR_HIL_CIR_MASTER_PARAMETER_FAILED Master parameter cannot activated at state operate.
0xC0000103	ERR_HIL_CIR_SLAVE_PARAMETER_FAILED Slave parameter cannot activated at state operate.
0xC0000119	ERR_HIL_NOT_CONFIGURED Configuration not available
0xC0000120	ERR_HIL_CONFIGURATION_FAULT General configuration fault.
0xC0000121	ERR_HIL_INCONSISTENT_DATA_SET Inconsistent configuration data.
0xC0000122	ERR_HIL_DATA_SET_MISMATCH Configuration data set mismatch.
0xC0000123	ERR_HIL_INSUFFICIENT_LICENSE Insufficient license.
0xC0000124	ERR_HIL_PARAMETER_ERROR Parameter error.
0xC0000125	ERR_HIL_INVALID_NETWORK_ADDRESS Network address invalid.
0xC0000126	ERR_HIL_NO_SECURITY_MEMORY Security memory chip missing or broken.
0xC0000127	ERR_HIL_NO_MAC_ADDRESS_AVAILABLE No MAC address available.
0xC0000128	ERR_HIL_INVALID_DDP_CONTENT DeviceDataProvider contains invalid data.
0xC0000129	ERR_HIL_FIRMWARE_STARTUP_ERROR Firmware startup failed. Check System logbook for details.
0xC000012A	ERR_HIL_COMM_CHANNEL_STARTUP_ERROR Communication Channel startup failed. Check Communication Channel logbook for details.

Hexadecimal value	Definition and description
0xC000012B	ERR_HIL_FIRMWARE_SPECIFIC_STARTUP_FAILED An error occurred while starting firmware or protocol specific functionality.
0xC000012C	ERR_HIL_INVALID_TAGLIST_CONTENT While evaluating the firmware taglist an invalid taglist parameter was detected.
0xC000012D	ERR_HIL_OPERATION_NOT_POSSIBLE_IN_CURRENT_STATE The requested operation can not be executed in current state.
0xC000012E	ERR_HIL_REMANENT_DATA_MISSING The requested operation can not be executed because remanent data was not set correctly.
0xC000012F	ERR_HIL_INVALID_DDP_OEM_SERIALNUMBER_CODING The content of DDPs OEM field SerialNumber can not be converted for usage with current protocol stack.
0xC0000130	ERR_HIL_INVALID_DDP_OEM_ORDERNUMBER_CODING The content of DDPs OEM field OrderNumber can not be converted for usage with current protocol stack.
0xC0000131	ERR_HIL_INVALID_DDP_OEM_HARDWAREREVISION_CODING The content of DDPs OEM field HardwareRevision can not be converted for usage with current protocol stack.
0xC0000132	ERR_HIL_INVALID_DDP_OEM_PRODUCTIONDATE_CODING The content of DDPs OEM field ProductionDate can not be converted for usage with current protocol stack.
0xC0000140	ERR_HIL_NETWORK_FAULT General communication fault.
0xC0000141	ERR_HIL_CONNECTION_CLOSED Connection closed.
0xC0000142	ERR_HIL_CONNECTION_TIMEOUT Connection timeout.
0xC0000143	ERR_HIL_LONELY_NETWORK Lonely network.
0xC0000144	ERR_HIL_DUPLICATE_NODE Duplicate network address.
0xC0000145	ERR_HIL_CABLE_DISCONNECT Cable disconnected.
0xC0000180	ERR_HIL_BUS_OFF Bus Off flag is set.
0xC0000181	ERR_HIL_CONFIG_LOCK Changing configuration is not allowed.
0xC0000182	ERR_HIL_APPLICATION_NOT_READY Application is not at ready state.
0xC0000183	ERR_HIL_RESET_IN_PROCESS Application is performing a reset.
0xC0000200	ERR_HIL_WATCHDOG_TIME_INVALID Watchdog time is out of range.
0xC0000201	ERR_HIL_APPLICATION_ALREADY_REGISTERED Application is already registered.
0xC0000202	ERR_HIL_NO_APPLICATION_REGISTERED No application registered.
0xC0000203	ERR_HIL_INVALID_COMPONENT_ID Invalid component identifier.

Hexadecimal value	Definition and description
0xC0000204	ERR_HIL_INVALID_DATA_LENGTH Invalid data length.
0xC0000205	ERR_HIL_DATA_ALREADY_SET The data was already set.
0xC0000206	ERR_HIL_NO_LOGBOOK_AVAILABLE Logbook not available.
0xC0001000	ERR_HIL_INVALID_HANDLE No description available - ERR_HIL_INVALID_HANDLE.
0xC0001001	ERR_HIL_UNKNOWN_DEVICE No description available - ERR_HIL_UNKNOWN_DEVICE.
0xC0001002	ERR_HIL_RESOURCE_IN_USE No description available - ERR_HIL_RESOURCE_IN_USE.
0xC0001003	ERR_HIL_NO_MORE_RESOURCES No description available - ERR_HIL_NO_MORE_RESOURCES.
0xC0001004	ERR_HIL_DRV_OPEN_FAILED No description available - ERR_HIL_DRV_OPEN_FAILED.
0xC0001005	ERR_HIL_DRV_INITIALIZATION_FAILED No description available - ERR_HIL_DRV_INITIALIZATION_FAILED.
0xC0001006	ERR_HIL_DRV_NOT_INITIALIZED No description available - ERR_HIL_DRV_NOT_INITIALIZED.
0xC0001007	ERR_HIL_DRV_ALREADY_INITIALIZED No description available - ERR_HIL_DRV_ALREADY_INITIALIZED.
0xC0001008	ERR_HIL_CRC No description available - ERR_HIL_CRC.
0xC0001010	ERR_HIL_DRV_INVALID_RESOURCE No description available - ERR_HIL_DRV_INVALID_RESOURCE.
0xC0001011	ERR_HIL_DRV_INVALID_MEM_RESOURCE No description available - ERR_HIL_DRV_INVALID_MEM_RESOURCE.
0xC0001012	ERR_HIL_DRV_INVALID_MEM_SIZE No description available - ERR_HIL_DRV_INVALID_MEM_SIZE.
0xC0001013	ERR_HIL_DRV_INVALID_PHYS_MEM_BASE No description available - ERR_HIL_DRV_INVALID_PHYS_MEM_BASE.
0xC0001014	ERR_HIL_DRV_INVALID_PHYS_MEM_SIZE No description available - ERR_HIL_DRV_INVALID_PHYS_MEM_SIZE.
0xC0001015	ERR_HIL_DRV_UNDEFINED_HANDLER No description available - ERR_HIL_DRV_UNDEFINED_HANDLER.
0xC0001020	ERR_HIL_DRV_ILLEGAL_VECTOR_ID No description available - ERR_HIL_DRV_ILLEGAL_VECTOR_ID.
0xC0001021	ERR_HIL_DRV_ILLEGAL_IRQ_MASK No description available - ERR_HIL_DRV_ILLEGAL_IRQ_MASK.
0xC0001022	ERR_HIL_DRV_ILLEGAL_SUBIRQ_MASK No description available - ERR_HIL_DRV_ILLEGAL_SUBIRQ_MASK.
0xC0001023	ERR_HIL_DRV_STATE_INVALID Driver is in invalid state.
0xC0001100	ERR_HIL_DPM_CHANNEL_UNKNOWN No description available - ERR_HIL_DPM_CHANNEL_UNKNOWN.
0xC0001101	ERR_HIL_DPM_CHANNEL_INVALID No description available - ERR_HIL_DPM_CHANNEL_INVALID.

Hexadecimal value	Definition and description
0xC0001102	ERR_HIL_DPM_CHANNEL_NOT_INITIALIZED No description available - ERR_HIL_DPM_CHANNEL_NOT_INITIALIZED.
0xC0001103	ERR_HIL_DPM_CHANNEL_ALREADY_INITIALIZED No description available - ERR_HIL_DPM_CHANNEL_ALREADY_INITIALIZED.
0xC0001120	ERR_HIL_DPM_CHANNEL_LAYOUT_UNKNOWN No description available - ERR_HIL_DPM_CHANNEL_LAYOUT_UNKNOWN.
0xC0001121	ERR_HIL_DPM_CHANNEL_SIZE_INVALID No description available - ERR_HIL_DPM_CHANNEL_SIZE_INVALID.
0xC0001122	ERR_HIL_DPM_CHANNEL_SIZE_EXCEEDED No description available - ERR_HIL_DPM_CHANNEL_SIZE_EXCEEDED.
0xC0001123	ERR_HIL_DPM_CHANNEL_TOO_MANY_BLOCKS No description available - ERR_HIL_DPM_CHANNEL_TOO_MANY_BLOCKS.
0xC0001130	ERR_HIL_DPM_BLOCK_UNKNOWN No description available - ERR_HIL_DPM_BLOCK_UNKNOWN.
0xC0001131	ERR_HIL_DPM_BLOCK_SIZE_EXCEEDED No description available - ERR_HIL_DPM_BLOCK_SIZE_EXCEEDED.
0xC0001132	ERR_HIL_DPM_BLOCK_CREATION_FAILED No description available - ERR_HIL_DPM_BLOCK_CREATION_FAILED.
0xC0001133	ERR_HIL_DPM_BLOCK_OFFSET_INVALID No description available - ERR_HIL_DPM_BLOCK_OFFSET_INVALID.
0xC0001140	ERR_HIL_DPM_CHANNEL_HOST_MBX_FULL No description available - ERR_HIL_DPM_CHANNEL_HOST_MBX_FULL.
0xC0001141	ERR_HIL_DPM_CHANNEL_SEGMENT_LIMIT No description available - ERR_HIL_DPM_CHANNEL_SEGMENT_LIMIT.
0xC0001142	ERR_HIL_DPM_CHANNEL_SEGMENT_UNUSED No description available - ERR_HIL_DPM_CHANNEL_SEGMENT_UNUSED.
0xC0001143	ERR_HIL_NAME_INVALID No description available - ERR_HIL_NAME_INVALID.
0xC0001144	ERR_HIL_UNEXPECTED_BLOCK_SIZE No description available - ERR_HIL_UNEXPECTED_BLOCK_SIZE.
0xC0001145	ERR_HIL_COMPONENT_BUSY The component is busy and cannot handle the requested service.
0xC0001150	ERR_HIL_INVALID_HEADER Invalid (file) header. E.g. wrong CRC/MD5/Cookie.
0xC0001151	ERR_HIL_INCOMPATIBLE Firmware does not match device.
0xC0001152	ERR_HIL_NOT_AVAILABLE Update file or destination (XIP-Area) not found.
0xC0001153	ERR_HIL_READ Failed to read from file/area.
0xC0001154	ERR_HIL_WRITE Failed to write from file/area.
0xC0001155	ERR_HIL_IDENTICAL Update firmware and installed firmware are identical.
0xC0001156	ERR_HIL_INSTALLATION Error during installation of firmware.
0xC0001157	ERR_HIL_VERIFICATION Error during verification of firmware.

Hexadecimal value	Definition and description
0xC0001158	ERR_HIL_INVALIDATION Error during invalidation of firmware files.
0xC0001160	ERR_HIL_FORMAT Volume is not formatted.
0xC0001161	ERR_HIL_VOLUME (De-)Initialization of volume failed.
0xC0001162	ERR_HIL_VOLUME_DRV (De-)Initialization of volume driver failed.
0xC0001163	ERR_HIL_VOLUME_INVALID The volume is invalid.
0xC0001164	ERR_HIL_VOLUME_EXCEEDED Number of supported volumes exceeded.
0xC0001165	ERR_HIL_VOLUME_MOUNT The volume is mounted (in use).
0xC0001166	ERR_HIL_ERASE Failed to erase file/directory/flash.
0xC0001167	ERR_HIL_OPEN Failed to open file/directory.
0xC0001168	ERR_HIL_CLOSE Failed to close file/directory.
0xC0001169	ERR_HIL_CREATE Failed to create file/directory.
0xC0001170	ERR_HIL_MODIFY Failed to modify file/directory.
0xC0001171	ERR_HIL_FS_NOT_AVAILABLE File system not available.
0xC0001172	ERR_HIL_FILE_NOT_FOUND File not available.
0xC0001173	ERR_HIL_DIAG_NO_INFO No diagnostic information available.
0xC0001174	ERR_HIL_QUEUE_UNKNOWN Queue is not available.
0xC0001175	ERR_HIL_NAME_UNKNOWN Name is unknown / not available.
0xC0001176	ERR_HIL_UPDATE_ERROR Failed to update firmware.
0xC0001177	ERR_HIL_DDP_STATE_INVALID DDP is in wrong state.
0xC0001178	ERR_HIL_MANUFACTURER_INVALID Manufacturer in file header does not match target.
0xC0001179	ERR_HIL_DEVICE_CLASS_INVALID Device class in file header does not match target.
0xC000117A	ERR_HIL_HW_COMPATIBILITY_INVALID Hardware compatibility index in file header does not match target.
0xC000117B	ERR_HIL_HW_OPTIONS_INVALID Hardware options in file header does not match target.
0x0000F005	SUCCESS_HIL_FRAGMENTED Fragment accepted.

Hexadecimal value	Definition and description
0xC000F006	ERR_HIL_RESET_REQUIRED Reset required.
0xC000F007	ERR_HIL_EVALUATION_TIME_EXPIRED Evaluation time expired. Reset required.
0xC000DEAD	ERR_HIL_FIRMWARE_CRASHED The firmware has crashed and the exception handler is running.

Table 3: Common status codes

2.2 TLR Timer

Hexadecimal value	Definition and description
0xC0020001	ERR_HIL_TIMER_TASK_INVALID_INSTANCE Task Instance is invalid. Multiple instances of TLR Timer task are forbidden.
0xC0020002	ERR_HIL_TIMER_IRQ_PARAM_INVALID_HANDLE Parameter Interrupt Timer Handle is invalid.
0xC0020003	ERR_HIL_TIMER_IRQ_PARAM_INVALID_VALUE Parameter Interrupt Timer Reload Value is invalid.
0xC0020004	ERR_HIL_TIMER_IRQ_RESOURCE_CREATE_FAILED There is no resource to create an interrupt timer.
0xC0020005	ERR_HIL_TIMER_APPL_PARAM_INVALID_HANDLE Parameter Application Timer Handle is invalid.
0xC0020006	ERR_HIL_TIMER_APPL_PARAM_INVALID_VALUE Parameter Application Timer Reload Value is invalid.
0xC0020007	ERR_HIL_TIMER_APPL_PARAM_INVALID_QUEUE Parameter Queue Handle is invalid.
0xC0020008	ERR_HIL_TIMER_APPL_RESOURCE_CREATE_FAILED No resource to create an application timer.
0xC0020009	ERR_HIL_TIMER_APPL_RESOURCE_INSERTED Application timer is already inserted into timer list.
0xC002000A	ERR_HIL_TIMER_PACKET_RESOURCE_CREATE_FAILED No resource to retry sending of packet.
0xC002000B	ERR_HIL_TIMER_TASK_NOT_INITIALIZED TLR Timer Task not initialized.
0xC002000C	ERR_HIL_TIMER_APPL_PACKET_SENT Packet of application timer was sent to queue.

Table 4: TLR timer packet status codes

2.3 RCX Task

Hexadecimal value	Definition and description
0xC02B0001	ERR_RCX_QUE_UNKNOWN Queue unknown.
0xC02B0002	ERR_RCX_QUE_IDX_UNKNOWN Queue table index does not exist.
0xC02B0003	ERR_RCX_TSK_UNKNOWN Task unknown.
0xC02B0004	ERR_RCX_TSK_IDX_UNKNOWN Task table index does not exist.
0xC02B0005	ERR_RCX_TSK_HANDLE_INVALID Task handle invalid.
0xC02B0006	ERR_RCX_TSK_INFO_IDX_UNKNOWN Task info field index unknown.
0x402B0001	INFO_RCX_FILE_RETRANSMIT The last data block was invalid, please retransmit.
0xC02B0007	ERR_RCX_FILE_XFR_TYPE_INVALID Requested transfer type invalid.
0xC02B0008	ERR_RCX_FILE_REQUEST_INCORRECT Request is incorrectly formatted i.e. wrong parameters.
0xC02B0009	ERR_RCX_UNKNOWN_PORT_INDEX Unknown port index.
0xC02B000A	ERR_RCX_ROUTER_TABLE_FULL Router table is full.
0xC02B000B	ERR_RCX_NO_SUCH_ROUTER_IN_TABLE No such router in table.
0xC02B000C	ERR_RCX_INSTANCE_NOT_NULL Mid_Sys Instance is not 0.
0xC02B000D	ERR_RCX_COMMAND_INVALID Invalid command.
0xC02B000E	ERR_RCX_TSK_INVALID Invalid task handle.
0xC02B000F	ERR_RCX_TSK_NOT_A_USER_TASK Access denied. Not a user task (See Config-File).
0xC02B0010	ERR_RCX_LOG_QUE_NOT_SETTABLE Logical queue handle not settable.
0xC02B0011	ERR_RCX_LOG_QUE_NOT_INVALID Logical queue handle invalid.
0xC02B0012	ERR_RCX_LOG_QUE_NOT_SET Logical queue handle has not been set.
0xC02B0013	ERR_RCX_LOG_QUE_ALREADY_USED Logical queue handle is already in use.
0xC02B0014	ERR_RCX_TSK_NO_DEFAULT_QUEUE Task has no default process queue.
0xC02B0015	ERR_RCX_MODULE_INVALID Firmware Module is invalid. CRC-32 check failed.
0xC02B0016	ERR_RCX_MODULE_NOT_FOUND Firmware Module has not been found. Maybe it has not been downloaded before.

Hexadecimal value	Definition and description
0xC02B0017	ERR_RCX_MODULE_RELOC_ERROR Firmware Module has an invalid reloc table.
0xC02B0018	ERR_RCX_MODULE_NO_INIT_TBL Firmware Module has no init table.
0xC02B0019	ERR_RCX_MODULE_NO_ENTRY_POINT Firmware Module has no code entry point.
0xC02B001A	ERR_RCX_ACCESS_DENIED_IN_LOCKED_STATE Access denied due to current operating conditions.
0xC02B001B	ERR_RCX_INVALID_FIRMWARE_SIZE Firmware does not fit into flash.
0xC02B001C	ERR_RCX_MODULE_RELOCATION_DISTANCE_TOO_LONG The relocation distance is too long.
0xC02B001D	ERR_RCX_SEC_FAILED Access to the security flash failed.
0xC02B001E	ERR_RCX_SEC_DISABLED Security flash is disabled at firmware.
0xC02B001F	ERR_RCX_INVALID_EXTENSION Invalid Extension field.
0xC02B0020	ERR_RCX_BLOCK_SIZE_OUT_OF_RANGE Block size out of range.
0xC02B0021	ERR_RCX_INVALID_CHANNEL Invalid Channel.
0xC02B0022	ERR_RCX_INVALID_FILE_LENGTH Invalid File Length.
0xC02B0023	ERR_RCX_INVALID_CHARACTER Invalid Character.
0xC02B0024	ERR_RCX_PACKET_OUT_OF_SEQUENCE Packet out of sequence.
0xC02B0025	ERR_RCX_NOT_POSSIBLE_IN_CURRENT_STATE Not possible in current state.
0xC02B0026	ERR_RCX_SECURITY_EEPROM_INVALID_ZONE Security Eeprom Zone Parameter is invalid.
0xC02B0027	ERR_RCX_SECURITY_EEPROM_NOT_ALLOWED Security Eeprom access is not allowed in current state.
0xC02B0028	ERR_RCX_SECURITY_EEPROM_NOT_AVAILABLE Security Eeprom is not available.
0xC02B0029	ERR_RCX_SECURITY_EEPROM_INVALID_CHECKSUM Security Eeprom has an invalid checksum.
0xC02B002A	ERR_RCX_SECURITY_EEPROM_ZONE_NOT_WRITABLE Security Eeprom Zone is not writeable.
0xC02B002B	ERR_RCX_SECURITY_EEPROM_READ_FAILED Security Eeprom Read Failed.
0xC02B002C	ERR_RCX_SECURITY_EEPROM_WRITE_FAILED Security Eeprom Write Failed.
0xC02B002D	ERR_RCX_SECURITY_EEPROM_ZONE_ACCESS_DENIED Security Eeprom Zone Access Denied.
0xC02B002E	ERR_RCX_SECURITY_EEPROM_EMULATED Security Eeprom Emulated. No write possible.

Hexadecimal value	Definition and description
0xC02B002F	ERR_RCX_FILE_NAME_INVALID File name is invalid.
0xC02B0030	ERR_RCX_FILE_SEQUENCE_ERROR File Sequence Error.
0xC02B0031	ERR_RCX_FILE_SEQUENCE_END_ERROR File Sequence End Error.
0xC02B0032	ERR_RCX_FILE_SEQUENCE_BEGIN_ERROR File Sequence Begin Error.
0xC02B0033	ERR_RCX_UNEXPECTED_BLOCK_SIZE Unexpected File Transfer Block Size.
0xC02B0034	ERR_HIL_FILE_HEADER_CRC_ERROR Hilscher File Header has invalid CRC error.
0xC02B0035	ERR_HIL_FILE_HEADER_MODULE_SIZE_DIFFERS Hilscher File Header specifies a different module size than the actual module header itself.
0xC02B0036	ERR_HIL_FILE_HEADER_MD5_CHECKSUM_ERROR Hilscher File Header contains a wrong MD-5 checksum for file data.
0xC02B0037	ERR_RCX_PACKET_WOULD_BE_TOO_LONG_FOR_MTU The packet would be too long for transfer.
0xC02B0038	ERR_INVALID_BLOCK Invalid block id
0xC02B0039	ERR_INVALID_STRUCT_NUMBER Invalid structure number
0xC02B003A	ERR_HIL_FILE_HEADER_INVALID Invalid file header
0xC02B003B	ERR_LICENSE_CHIPTYPE_UNSUPPORTED Target device not supported for license update
0xC02B003C	ERR_LICENSE_CHIPTYPE_MISMATCH License incompatible for target device
0xC02B003D	ERR_LICENSE_HW_MISMATCH License generated for different device
0xC02B003E	ERR_MODULE_CONTAINS_NO_MODULE_DESCRIPTOR Missing module descriptor in module.
0xC02B003F	ERR_MODULE_CONTAINS_UNKNOWN_VERSION Unknown version in module descriptor.
0xC02B0040	ERR_MODULE_HAS_NO_INIT_FUNCTION Module has no init function.
0xC02B0041	ERR_MODULE_OFFSET_RANGE_ERROR Module part exceeded offset range.
0xC02B0042	ERR_MODULE_INVALID_ELF_HEADER Invalid ELF header in module.
0xC02B0043	ERR_MODULE_INVALID_ELF_SECTION_REFERENCE Invalid ELF section reference in module.
0xC02B0044	ERR_MODULE_INVALID_ELF_SYMBOL_REFERENCE Invalid ELF symbol reference in module.
0xC02B0045	ERR_MODULE_CONTAINS_AN_UNDEFINED_SYMBOL Module contains an undefined symbol.
0xC02B0046	ERR_MODULE_CONTAINS_INVALID_CODE_SYMBOL Module contains invalid symbol to code area.

Hexadecimal value	Definition and description
0xC02B0047	ERR_MODULE_CONTAINS_UNSUPPORTED_SYMBOL_BINDING Module contains a supported symbol binding.
0xC02B0048	ERR_MODULE_CONTAINS_UNSUPPORTED_SYMBOL_TYPE Module contains a supported symbol type.
0xC02B0049	ERR_MODULE_INVALID_SECTION_OFFSET_ENCOUNTED Invalid section offset encountered.
0xC02B004A	ERR_MODULE_UNSUPPORTED_RELOC_TYPE Unsupported reloc type.
0xC02B004B	ERR_MODULE_RELOC_DISTANCE_TOO_LONG Reloc distance too long.
0xC02B004C	ERR_MODULE_RELOC_ERROR Reloc error.
0xC02B004D	ERR_MODULE_SHT_RELA_NOT_SUPPORTED Rela relocs not supported.
0xC02B004E	ERR_MODULE_SPECIAL_SYM_PARSE_ERROR Special syms could not be parsed.
0xC02B004F	ERR_MODULE_MISSING_SPECIAL_SYMS Missing special symbols in ELF symtab.
0xC02B0050	ERR_MODULE_RCX_JUMP_TABLE_IS_SHORTER_THAN_EXPECTED rcX Jump table is shorter than expected.
0xC02B0051	ERR_MODULE_LIBC_JUMP_TABLE_IS_SHORTER_THAN_EXPECTED libc Jump table is shorter than expected.
0xC02B0052	ERR_MODULE_TASK_GROUP_RANGE_DOES_NOT_MATCH_STATIC_TASK_TABLE Task Group Range does not match static task table.
0xC02B0053	ERR_MODULE_INTERRUPT_GROUP_RANGE_DOES_NOT_MATCH_INTERRUPT_TABLE Interrupt Group Range does not match interrupt table.
0xC02B0054	ERR_MODULE_INTERRUPT_GROUP_TASK_RANGE_DOES_NOT_MATCH_INTERRUPT_TABLE Interrupt Group Task-Range does not match interrupt table.
0xC02B0055	ERR_MODULE_LED_TAG_TOO_SHORT LED-Tag is too short.
0xC02B0056	ERR_MODULE_LED_TAG_CONTAINS_INVALID_PARAMETERS LED-Tag contains invalid parameters.
0xC02B0057	ERR_MODULE_CONTAINS_UNSUPPORTED_COMMON_SYMBOL Module contains unsupported *COM* symbol.
0xC02B0058	ERR_RCX_DEVICE_CLASS_INVALID Device class in file header does not match target.
0xC02B0059	ERR_RCX_MFG_INVALID Manufacturer in file header does not match target.
0xC02B005A	ERR_RCX_HW_COMPATIBILITY_INVALID Hardware compatibility index in file header does not match target.
0xC02B005B	ERR_RCX_HW_OPTIONS_INVALID Hardware options in file header does not match target.
0xC02B4D52	ERR_RCX_SECURITY_EEPROM_ZONE_NOT_READABLE Security Eeprom Zone is not readable.
0xC02B524C	ERR_RCX_FILE_TRANSFER_IN_USE File Transfer in use.

Hexadecimal value	Definition and description
0xC02B4444	ERR_RCX_FILE_TRANSFER_PACKET_INVALID File Transfer Packet invalid.
0xC02B5342	ERR_RCX_FILE_TRANSFER_NOT_ACTIVE File Transfer is not active.
0xC02B5257	ERR_RCX_FILE_TRANSFER_INVALID File Transfer has invalid type code.
0xC02B4352	ERR_RCX_FILE_CRC_REPEATEDLY_WRONG File Transfer was tried repeatedly with a wrong CRC.
0xC02B4353	ERR_RCX_FILE_TRANSFER_TYPE_NOT_AVAILABLE Transfer Type is not available.
0xC02B5555	ERR_RCX_PATH_INVALID File Path submitted in File Transfer was invalid.
0xC02BFFFF	ERR_RCX_DRIVER_CFG_TABLE_INIT_FUNCTION_MISSING Driver Configuration Table Init Function missing.
0xC02B4B54	ERR_RCX_CONFIGURATION_LOCKED Configuration has been locked.
0xC02B4242	ERR_RCX_NOT_ENOUGH_SPACE_FOR_FILE Not enough space on volume for file.
0xC02B4243	ERR_RCX_FORMAT_ERASE_FAILED Error formatting / erasing volume.
0xC02B4244	ERR_RCX_FORMAT_VERIFY_FAILED Error erasing sector.

Table 5: System Middleware errors codes

2.4 TLR Router

Hexadecimal value	Definition and description
0xC02F0001	ERR_ROUTER_PACKET_TOO_BIG Router: Packet is too big (maximum overall size is 2048 Bytes).
0xC02F0002	ERR_ROUTER_LINK_INACTIVE Router: Link inactive.
0xC02F0003	ERR_ROUTER_FRAGMENT_MISSING Router: Fragment Missing.
0xC02F0004	ERR_ROUTER_SEND_TIMEOUT Router: Packet Send Timeout reached.
0xC02F0005	ERR_ROUTER_LOGICAL_QUEUE_UNDEFINED Router: Logical queue handle is undefined.

Table 6: TLR router error and status codes

2.5 Mid Debug Task

Hexadecimal value	Definition and description
0xC0310001	ERR_MID_DBG_COMMAND_INVALID Invalid command.
0xC0310002	ERR_MID_DBG_REQUESTED_MEM_BLOCK_SIZE_TOO_LARGE Requested Memory Block Size too large.
0xC0310003	ERR_MID_DBG_INVALID_TASK_HANDLE Invalid task handle.
0xC0310005	ERR_MID_DBG_DENIED_ACC_DBG_TASK Access to debug task denied.
0xC0310007	ERR_MID_DBG_ALL_BKPTS_IN_USE All breakpoints in use.
0xC0310008	ERR_MID_DBG_BKPT_ADDRESS_ALREADY_DEFINED Breakpoint address is already defined.
0xC0310009	ERR_MID_DBG_UNKNOWN_CODE_TYPE Code type not known.
0xC031000A	ERR_MID_DBG_NO_BKPT_IN_ROM_POSSIBLE No breakpoint in rom location possible.
0xC031000B	ERR_MID_DBG_NO_SUCH_REGISTER_TO_WRITE No such register to write to.
0xC031000C	ERR_MID_DBG_UNDEFINED_JUMP_TABLE_INDEX Invalid command.
0xC031000D	ERR_MID_DBG_NO_JUMP_TABLE Invalid command.

Table 7: Mid debug task

2.6 MID Startup Task

Hexadecimal value	Definition and description
0xC05F0001	ERR_MID_STARTUP_COMMAND_INVALID Invalid command received.

Table 8: MID Startup Task

2.7 OS Abstraction Layer

Hexadecimal value	Definition and description
0xC0CA0002	ERR_OSAL_TIMEOUT Timeout.
0xC0CA0003	ERR_OSAL_LOCK_FAILED Lock failed.
0xC0CA0004	ERR_OSAL_WAIT_FAILED Wait failed.
0xC0CA0005	ERR_OSAL_INVALID_HANDLE Invalid handle.
0xC0CA0006	ERR_OSAL_INITIALIZE_FAILED Initialization failed.
0xC0CA0007	ERR_OSAL_INVALID_FUNCTION_PARAMETER The function call contains invalid parameters.
0xC0CA0009	ERR_OSAL_FUNCTION_NOT_SUPPORTED Function not supported.
0xC0CA000A	ERR_OSAL_RESOURCE_IN_USE Resource in use.
0xC0CA0100	ERR_OSAL_FILE_PATH_NOT_FOUND Path not found.
0xC0CA0101	ERR_OSAL_FILE_PATH_IN_USE Path is in use.
0xC0CA0102	ERR_OSAL_FILE_VOLUME_NOT_FOUND Volume not found.
0xC0CA0103	ERR_OSAL_FILE_PATH_ALREADY_EXISTS Path already exists.
0xC0CA0104	ERR_OSAL_FILE_NO_SPACE_LEFT No space left.
0xC0CA0105	ERR_OSAL_FILE_NOT_A_DIRECTORY Not a directory.
0xC0CA0106	ERR_OSAL_FILE_IS_A_DIRECTORY Is a directory.
0xC0CA0107	ERR_OSAL_FILE_PATH_IS_TOO_LONG Path is too long.
0xC0CA0108	ERR_OSAL_FILE_DIR_IS_NOT_EMPTY Directory is not empty.
0xC0CA0109	ERR_OSAL_FILE_TOO_MANY_OPEN_FILES Too many open files.
0xC0CA010A	ERR_OSAL_FILE_PATH_IS_INVALID Path is invalid.
0xC0CA010B	ERR_OSAL_FILE_NO_MORE_DIR_ENTRIES No more directory entries.
0xC0CA010C	ERR_OSAL_FILE_READ_ERROR Read Error.
0xC0CA010D	ERR_OSAL_FILE_WRITE_ERROR Write Error.

Table 9: OS Abstraction Layer

2.8 OSAL Worker Thread Task

Hexadecimal value	Definition and description
0xC0EA0001	ERR_WORKER_THREAD_INIT_FAILED Starting of Worker thread failed.

Table 10: OSAL Worker Thread Task

2.9 Generic AP

Hexadecimal value	Definition and description
0xC1090001	ERR_GAP_INVALID_COMPONENT_ID Invalid component identifier.
0xC1090002	ERR_GAP_SET_REMANENT_DATA_NOT_ALLOWED Setting remanent data is not allowed.
0xC1090003	ERR_GAP_INVALID_WORKER Invalid worker.
0xC1090004	ERR_GAP_LOGBOOK_CREATE_FAIL The Logbook could not be created.
0xC1090005	ERR_GAP_POOL_CREATE_FAIL The service pool could not be created.
0xC1090006	ERR_GAP_QUEUE_CREATE_FAIL The GAP queue could not be created.
0xC1090007	ERR_GAP_MUTEX_INIT_FAIL The initialization of a mutex failed.
0xC1090008	ERR_GAP_TIMER_INIT_FAIL The initialization of a PS Timer failed.
0xC1090009	ERR_GAP_COMPMGR_REGISTER_FAIL Generic AP could not register at Component Manager.
0xC109000A	ERR_GAP_COMPMGR_DIAG_REGISTER_FAIL Generic AP could not register the diagnostic callback at Component Manager.
0xC109000B	ERR_GAP_WATCHDOG_INIT_FAIL The DPM watchdog initialization failed.
0xC109000C	ERR_GAP_SET_CHANNEL_QUEUE_FAIL The DPM channel queue could not be registered.
0xC109000D	ERR_GAP_GET_CHANNEL_QUEUE_FAIL The DPM channel queue could not be retrieved.
0xC109000E	ERR_GAP_REMANENT_FILE_CREATE_FAIL The remanent data file could not be created.
0xC109000F	ERR_GAP_COMPONENT_INIT_FAIL The component initialization failed.
0xC1090010	ERR_GAP_COMPONENT_START_FAIL The component could not be started.
0xC1090011	ERR_GAP_REMANENT_DATA_NOT_ENOUGH_MEMORY Not enough memory for remanent data.
0xC1090012	ERR_GAP_FRAGMENT_FORWARD_INIT_FAIL The fragment forwarding initialization failed.
0xC1090013	ERR_GAP_DPM_CHANNEL_START_FAIL The DPM channel could not be started.
0xC1090014	ERR_GAP_RESOURCE_ALLOCATION_FAIL Failed to allocate Generic AP resources.
0xC1090015	ERR_GAP_CONFIG_VERSION_INVALID Invalid Generic AP configuration version.
0xC1090016	ERR_GAP_CONFIG_DPM_COMM_CHANNEL_INVALID Invalid DPM communication channel.
0xC1090017	ERR_GAP_CONFIG_DPM_CHANNEL_FW_INFO_INVALID Invalid firmware information for the related DPM communication channel.

Hexadecimal value	Definition and description
0xC1090018	ERR_GAP_REMANENT_FILE_READ_FAIL The remanent data file could not be read.
0xC1090019	ERR_GAP_REMANENT_FILE_WRITE_FAIL The remanent data file could not be written.
0xC109001A	ERR_GAP_REMANENT_DATA_DELETE_FAIL The remanent data could not be deleted.
0x8109001B	WARN_GAP_SET_REMANENT_DATA_DENIED The component did not accept the remanent data.
0x8109001C	WARN_GAP_SERVICE_DENIED The component did not accept the service.
0xC109001D	ERR_GAP_NO_RESPONSE_HANDLER No response service handler could be found.
0x8109001E	WARN_GAP_SERVICE_RETRY The forwarding of a service to the component or application has failed and will be repeated.
0xC109001F	ERR_GAP_QUEUE_INVALID_SERVICE_LEN Queue service length is invalid.
0xC1090020	ERR_GAP_DPM_INVALID_SERVICE_LEN DPM service length is invalid.
0x81090021	WARN_GAP_NO_REMANENT_DATA Remanent data does not exist.
0xC1090022	ERR_GAP_QUEUE_JOB Service job queued failed.

Table 11: Generic AP

3 Real-Time Ethernet and Ethernet protocols

3.1 CC-Link IE Field

3.1.1 CC-Link IE Field Slave

Hexadecimal value	Definition and description
0xC0F30001	ERR_CCLIES_REQUEST_DESTINATION_PROBLEM Request destination problem.
0xC0F30002	ERR_CCLIES_TRANSIENT1_ALREADY_REGISTERED Transient1 already registered.
0xC0F30003	ERR_CCLIES_TRANSIENT1_NOT_REGISTERED Transient1 not registered.
0xC0F30004	ERR_CCLIES_TRANSIENT2_ALREADY_REGISTERED Transient2 already registered.
0xC0F30005	ERR_CCLIES_TRANSIENT2_NOT_REGISTERED Transient2 not registered.
0xC0F30006	ERR_CCLIES_SLMP_ALREADY_REGISTERED SLMP already registered.
0xC0F30007	ERR_CCLIES_SLMP_NOT_REGISTERED SLMP not registered.
0xC0F30008	ERR_CCLIES_SLMP_INVALID_TYPE_PARAMETER Invalid SLMP Type parameter.
0xC0F30009	ERR_CCLIES_CONFIGURATION_BUSY Configuration busy.
0xC0F3000A	ERR_CCLIES_INVALID_DEVICE_TYPE Invalid device type.
0xC0F3000B	ERR_CCLIES_INVALID_MAX_RX_BYTES Invalid maximum RX bytes.
0xC0F3000C	ERR_CCLIES_INVALID_MAX_RY_BYTES Invalid maximum RY bytes.
0xC0F3000D	ERR_CCLIES_INVALID_MAX_RWR_POINTS Invalid maximum RWr points.
0xC0F3000E	ERR_CCLIES_INVALID_MAX_RWW_POINTS Invalid maximum RWw points.
0xC0F3000F	ERR_CCLIES_INVALID_MIN_RX_BYTES Invalid minimum RX bytes.
0xC0F30010	ERR_CCLIES_INVALID_MIN_RY_BYTES Invalid minimum RY bytes.
0xC0F30011	ERR_CCLIES_INVALID_MIN_RWR_POINTS Invalid minimum RWr points.
0xC0F30012	ERR_CCLIES_INVALID_MIN_RWW_POINTS Invalid minimum RWw points.
0xC0F30013	ERR_CCLIES_INVALID_IOTYPE Invalid IO-Type.
0xC0F30014	ERR_CCLIES_INVALID_NET_NUMBER Invalid network number.

Hexadecimal value	Definition and description
0xC0F30015	ERR_CCLIES_CYCLIC_STOPPED Cyclic stopped.
0xC0F30016	ERR_CCLIES_ERROR_BLINK Error Blink.
0xC0F30017	ERR_CCLIES_INVALID_STATION_NUMBER Invalid station number.
0xC0F3F000	ERR_CCLIES_LLD_INVALID_FIRMWARE LLD: Invalid firmware.
0xC0F3F001	ERR_CCLIES_LLD_NOT_READY_COOKIE LLD: Not ready cookie.
0xC0F3F002	ERR_CCLIES_LLD_NOT_READY_STATUS LLD: Not ready status.
0xC0F3F003	ERR_CCLIES_LLD_INVALID_PARAMETER LLD: Invalid parameter.
0xC0F3F004	ERR_CCLIES_LLD_UNKNOWN_ERROR LLD: Unknown error.
0xC0F3F005	ERR_CCLIES_LLD_OUT_OF_MEMORY LLD: Out of memory.
0xC0F3F006	ERR_CCLIES_LLD_IRQ_INIT_ERROR LLD: IRQ init error.
0xC0F3F007	ERR_CCLIES_LLD_BUSY LLD: Busy.

Table 12: CC-Link IE Field Slave

3.1.2 CC-Link IE Field Slave IF Task

Hexadecimal value	Definition and description
0xC0F40001	ERR_CCLIESIF_COMMAND_INVALID Invalid command received.
0xC0F40002	ERR_CCLIESIF_NO_MORE_REGISTRATIONS_POSSIBLE No more registrations possible.

Table 13: CC-Link IE Field Slave IF Task

3.1.3 CC-Link IE Field Slave AP Task

Hexadecimal value	Definition and description
0xC0F50001	ERR_CCLIESAP_COMMAND_INVALID Invalid command received.
0xC0F50002	ERR_CCLIESAP_INVALID_STARTUP_PARAMETER Invalid Startup Parameter.
0xC0F50003	ERR_CCLIESAP_NO_MORE_REGISTRATIONS_POSSIBLE No more registrations possible.

Table 14: CC-Link IE Field Slave AP Task

3.1.4 CC-Link IE Field Slave SLMP

Hexadecimal value	Definition and description
0xC0F6C059	ERR_SLMP_ENDCODE_CMD_SUBCMD_ERROR Command/Subcommand error.
0xC0F6C05C	ERR_SLMP_ENDCODE_ERROR_IN_REQ_MESSAGE Error in request message.
0xC0F6C061	ERR_SLMP_ENDCODE_REQ_LENGTH_DOES_NOT_MATCH Request length does not match.
0xC0F6CEE0	ERR_SLMP_ENDCODE_BUSY Busy.
0xC0F6CEE1	ERR_SLMP_ENDCODE_REQ_SIZE_EXCEEDED_EFFECT_PROCESS_RANGE Request size exceeded effective processing range.
0xC0F6CEE2	ERR_SLMP_ENDCODE_RES_SIZE_EXCEEDED_EFFECT_PROCESS_RANGE Response size exceeded effective processing range.
0xC0F6CF10	ERR_SLMP_ENDCODE_SPECIFIED_SERVER_INFO_NO_NOT_EXIST Specified server info number does not exist.
0xC0F6CF20	ERR_SLMP_ENDCODE_CONTAINED_ITEMS_CANNOT_BE_SET Contained items cannot be set.
0xC0F6CF30	ERR_SLMP_ENDCODE_PARAM_ID_DOES_NOT_EXIST Parameter id does not exist.
0xC0F6CF31	ERR_SLMP_ENDCODE_WRITE_EXCLUSIVE_START_NOT_PERFORMED Write exclusive start not performed.
0xC0F6CF70	ERR_SLMP_ENDCODE_RELAY_PATH_DEST_COMM_ERROR Relay path destination communication error.
0xC0F6CF71	ERR_SLMP_ENDCODE_TIMEOUT_OCCURED Timeout occurred.

Table 15: CC-Link IE Field SLMP Endcodes

3.2 CC-Link IE Field Basic

3.2.1 CC-Link IE Field Basic interface

Hexadecimal value	Definition and description
0xC0FF0001	ERR_CCLIEFBIF_NO_MORE_REGISTRATIONS_POSSIBLE No more registrations possible.
0xC0FF0002	ERR_CCLIEFBIF_REMANENT_DATA_MISSING No more registrations possible.

Table 16: CC-Link IE Field Basic interface

3.2.2 CC-Link IE Field Basic application

Hexadecimal value	Definition and description
0xC1000001	ERR_CCLIEFBAP_COMMAND_INVALID Invalid command received.
0xC1000002	ERR_CCLIEFBAP_INVALID_STARTUP_PARAMETER Invalid Startup Parameter.
0xC1000003	ERR_CCLIEFBAP_NO_MORE_REGISTRATIONS_POSSIBLE No more registrations possible.
0xC1000004	ERR_CCLIEFBAP_DUPLICATE_SLAVE_STATION_ID Duplicate slave station id detected.
0xC1000005	ERR_CCLIEFBAP_OTHER_MASTER_ACTIVE Other master active.
0xC1000006	ERR_CCLIEFBAP_ERROR_DETECTED Error detected.

Table 17: CC-Link IE Field Basic application

3.3 EtherCAT

3.3.1 EtherCAT Base

Hexadecimal value	Definition and description
0xC0200001	ERR_ECANT_BASE_COMMAND_INVALID Invalid command received.
0x80200002	WARN_ECANT_BASE_MAILBOX_NOT_ACTIVE Mailbox communication is not active.
0x80200003	WARN_ECANT_BASE_NO_MAILBOX_TYPE_RECEIVER_CONNECTED No receiver for mailbox type connected.
0xC0200004	ERR_ECANT_BASE_MBX_INVALID_TYPE Invalid Mailbox type id.
0xC0200005	ERR_ECANT_BASE_MBX_ALREADY_CONNECTED Mailbox type is already connected to listener.
0xC0200006	ERR_ECANT_BASE_TOO_MANY_ALCONTROL_RECEIVERS Too many ALcontrol receivers registered.
0xC0200007	ERR_ECANT_BASE_QUEUE_DOES_NOT_EXIST Queue does not exist.
0xC0200008	ERR_ECANT_BASE_MBX_PACKET_TOO_LONG Queue does not exist.
0xC0200009	ERR_ECANT_BASE_NO_QUEUE_REGISTERED_FOR_MBX_TYPE No queue registered for mailbox type.
0xC020000A	ERR_ECANT_BASE_DEADSLAVE_CALLBACK_TABLE_FULL Dead slave callback table full.
0xC020000B	ERR_ECANT_BASE_NO_SUCH_ETHERCAT_STACK_NAME No EtherCAT stack with that name.
0xC020000C	ERR_ECANT_BASE_DUPLICATE_ETHERCAT_STACK_NAME Duplicate EtherCAT stack name.
0xC020000D	ERR_ECANT_BASE_DYNAMICDATA_INVALID EtherCAT stack dynamic data invalid.
0xC020000E	ERR_ECANT_BASE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters.
0xC020000F	ERR_ECANT_BASE_NOT_ENOUGH_MEMORY Not enough memory.
0xC0200010	ERR_ECANT_BASE_INVALID_ALSTATUS_STATE_CHANGE Invalid AL status state change.
0xC0200011	ERR_ECANT_BASE_NO_DATA_AVAILABLE No process data available.
0xC0200012	ERR_ECANT_BASE_ALREADY_CONNECTED Process Data Handler already connected.
0xC0200013	ERR_ECANT_BASE_FUNCTION_NOT_SUPPORTED Function not supported.
0xC0200014	ERR_ECANT_BASE_FUNCTION_NOT_ALLOWED Function not allowed.

Table 18: EtherCAT base stack error codes

3.3.2 EtherCAT CoE

Hexadecimal value	Definition and description
0xC0210001	ERR_ECACOE_COMMAND_INVALID Invalid command received.
0x80210002	WARN_ECACOE_NO_SERVICE_RECEIVER_CONNECTED No CoE Service receiver connected.
0xC0210003	ERR_ECACOE_INVALID_SERVICE_TYPE Invalid CoE service type id.
0xC0210004	ERR_ECACOE_ALREADY_CONNECTED CoE service already connected.
0xC0210005	ERR_ECACOE_QUEUE_DOES_NOT_EXIST Queue does not exist.
0xC0210006	ERR_ECACOE_PDO_INVALID_ID Invalid PDO Id.
0xC0210007	ERR_ECACOE_PDO_UNDEFINED_ID Undefined PDO Id.
0xC0210008	ERR_ECACOE_PDO_MAPPING_FAILED_DUE_TO_MISSING_OBJECT PDO Mapping failed due to missing object.
0xC0210009	ERR_ECACOE_SDO_PROTOCOL_TIMEOUT SDO Protocol timeout.
0xC021000A	ERR_ECACOE_SDO_SCS_SPECIFIER_INVALID Client/Server command specifier not valid or unknown.
0xC021000B	ERR_ECACOE_SDO_OUT_OF_MEMORY Out of Memory.
0xC021000C	ERR_ECACOE_SDO_UNSUPPORTED_ACCESS_TO_OBJECT Unsupported access to an object.
0xC021000D	ERR_ECACOE_SDO_ATTEMPT_TO_READ_A_WRITE_ONLY_OBJECT Attempt to read a write only object.
0xC021000E	ERR_ECACOE_SDO_ATTEMPT_TO_WRITE_A_READ_ONLY_OBJECT Attempt to write a read only object.
0xC021000F	ERR_ECACOE_SDO_OBJECT_DOES_NOT_EXIST The object does not exist in the object dictionary.
0xC0210010	ERR_ECACOE_SDO_OBJECT_CAN_NOT_BE_MAPPED_INTO_THE_PDO The object cannot be mapped into the PDO.
0xC0210011	ERR_ECACOE_SDO_OBJECTS_WOULD_EXCEED_PDO_LENGTH The number and length of the objects to be mapped would exceed the PDO length.
0xC0210012	ERR_ECACOE_SDO_GENERAL_PARAMETER_INCOMPATIBILITY_REASON General parameter incompatibility reason.
0xC0210013	ERR_ECACOE_SDO_GENERAL_INTERNAL_INCOMPATIBILITY_IN_DEVICE General internal incompatibility in the device.
0xC0210014	ERR_ECACOE_SDO_ACCESS_FAILED_DUE_TO_A_HARDWARE_ERROR Access failed due to a hardware error.
0xC0210015	ERR_ECACOE_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	ERR_ECACOE_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_TOO_HIGH Data type does not match, service parameter too long.

Hexadecimal value	Definition and description
0xC0210017	ERR_ECAT_COE_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_TOO_LOW Data type does not match, service parameter too short.
0xC0210018	ERR_ECAT_COE_SDO_SUBINDEX_DOES_NOT_EXIST Subindex does not exist.
0xC0210019	ERR_ECAT_COE_SDO_VALUE_RANGE_OF_PARAMETER_EXCEEDED Value range of parameter exceeded.
0xC021001A	ERR_ECAT_COE_SDO_VALUE_OF_PARAMETER_WRITTEN_TOO_HIGH Value of parameter written too high.
0xC021001B	ERR_ECAT_COE_SDO_VALUE_OF_PARAMETER_WRITTEN_TOO_LOW Value of parameter written too low.
0xC021001C	ERR_ECAT_COE_SDO_MAXIMUM_VALUE_IS_LESS_THAN_MINIMUM_VALUE Maximum value is less than minimum value.
0xC021001D	ERR_ECAT_COE_SDO_GENERAL_ERROR General error.
0xC021001E	ERR_ECAT_COE_SDO_DATA_CANNOT_BE_TRANSFERRED_OR_STORED_TO_THE_APP Data cannot be transferred to or stored in the application.
0xC021001F	ERR_ECAT_COE_SDO_DATA_NO_TRANSFER_DUE_TO_LOCAL_CONTROL Data cannot be transferred to or stored in the application because of local control.
0xC0210020	ERR_ECAT_COE_SDO_DATA_NO_TRANSFER_DUE_TO_PRESENT_DEVICE_STATE Data cannot be transferred to or stored in the application because of present device state.
0xC0210021	ERR_ECAT_COE_SDO_NO_OBJECT_DICTIONARY_PRESENT Object dictionary dynamic generation fails or no object dictionary present.
0xC0210022	ERR_ECAT_COE_SDO_UNKNOWN_ABORT_CODE Unknown SDO abort code.
0xC0210023	ERR_ECAT_COE_SDO_TOGGLE_BIT_NOT_TOGGLED SDO toggle bit was not toggled.
0xC0210024	ERR_ECAT_COE_SDO_CLIENT_STACK_BUSY SDO client stack busy.
0xC0210025	ERR_ECAT_COE_SDO_CLIENT_STACK_NO_TRANSFER SDO client stack has no active transfer identified by station address.
0xC0210026	ERR_ECAT_COE_PDO_SUBOBJECT_PTR_UNALIGNED Subobject data pointer is unaligned.
0xC0210027	ERR_ECAT_COE_COULD_NOT_SEND_MBX_MESSAGE Could not send mailbox message.
0xC0210028	ERR_ECAT_COE_INVALID_MBX_MESSAGE Could not send mailbox message due to format errors.
0xC0210029	ERR_ECAT_COE_NO_OBJECT_DICTIONARY_PRESENT No object dictionary present.
0xC021002A	ERR_ECAT_COE_INVALID_PDO_DBM_CONFIGURATION Invalid PDO DBM configuration.
0x4021002B	INFO_ECAT_COE_CONFIG_INTERFACE_NOT_INITIALIZED Configuration interface not initialized.
0x8021002C	WARN_ECAT_COE_NO_OUTPUT_DATA No output data available.
0xC021002D	ERR_ECAT_COE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters.

Hexadecimal value	Definition and description
0xC021002E	ERR_ECAT_COE_SHUTDOWN_ACTIVE Shutdown on task is active.
0xC021002F	ERR_ECAT_COE_OD_NOTIFY_TABLE_FULL OD Notify Table Full.
0xC0210030	ERR_ECAT_COE_OD_UNDEFINED_NOTIFY_APPLICATION_ALREADY_REGISTERED An application already registered for the Undefined object notify.
0xC0210031	ERR_ECAT_COE_OD_SDOINFO_NOTIFY_APPLICATION_ALREADY_REGISTERED An application already registered for the SDO Info packet hook.
0xC0210032	ERR_ECAT_COE_OD_DPM_MODE_OBJECTS_CAN_ONLY_BE_READONLY DPM Mode Objects can only be set read-only.
0xC0210033	ERR_ECAT_COE_OD_DPM_MODE_OBJECTS_DIRECTION_PARAMETER_INVALID Invalid direction parameter for DPM Mode Objects.
0xC0210034	ERR_ECAT_COE_OD_DPM_MODE_SUBOBJECT_OFFSET_OUT_OF_RANGE Invalid offset parameter for DPM Mode Objects.
0xC0210035	ERR_ECAT_COE_SDOABORT_SUBINDEX_CANNOT_BE_WRITTEN_SIO_MUST_BE_0 Subindex cannot be written, Subindex 0 must be 0 for write access.
0xC0210036	ERR_ECAT_COE_SDOABORT_COMPLETE_ACCESS_NOT_SUPPORTED Complete Access not supported.
0xC0210037	ERR_ECAT_COE_SDOABORT_OBJECT_MAPPED_TO_RXPDO_DOWNLOAD_BLOCKED Object mapped to RxPDO. SDO Download blocked.
0xC0210038	ERR_ECAT_COE_SDOABORT_OBJECT_LENGTH_EXCEEDS_MAILBOX_SIZE Object length exceeds mailbox size.

Table 19: EtherCAT CoE stack error codes

3.3.3 EtherCAT SoE

Hexadecimal value	Definition and description
0xC0220001	ERR_ECAT_SOE_COMMAND_INVALID Invalid command.
0x40220002	INFO_ECAT_SOE_CONFIG_INTERFACE_NOT_INITIALIZED Configuration interface not initialized.
0xC0220003	ERR_ECAT_SOE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters.
0xC0220004	ERR_ECAT_SOE_IDN_ALREADY_EXISTS IDN already exists.
0xC0220005	ERR_ECAT_SOE_IDN_ATTRIBUTE_INVALID Invalid attribute specified.
0xC0220006	ERR_ECAT_SOE_IDN_INVALID_MAX_DATA_SIZE_SPECIFIED Invalid max data size specified.
0xC0220007	ERR_ECAT_SOE_IDN_DRIVE_NUMBER_INVALID Drive number invalid.
0xC0220008	ERR_ECAT_SOE_IDN_UNDEFINED_NOTIFY_ALREADY_IN_USE Undefined notify already in use.
0xC0220009	ERR_ECAT_SOE_IDN_INVALID_ELEMENT_ID Invalid element id.
0xC022000A	ERR_ECAT_SOE_IDN_APP_PACKET_RESPONSE_INVALID Response Packet of Application invalid.
0xC022000B	ERR_ECAT_SOE_IDN_APP_SSC_TRANSFER_TOO_LONG Transfer Data of Application too long.
0xC022000C	ERR_ECAT_SOE_IDN_APP_SSC_TRANSFER_LENGTH_WRONG Transfer Data length of Application is invalid.
0xC022000D	ERR_ECAT_SOE_IDN_APP_MTU_TOO_LOW MTU of Application is too low.
0xC022000E	ERR_ECAT_SOE_IDN_INVALID_DEST_ID ECAT_SOEIDN: Invalid Dest ID.
0xC022000F	ERR_ECAT_SOE_IDN_LISTS_CANNOT_HAVE_A_MINIMUM_VALUE Lists cannot have a minimum value.
0xC0220010	ERR_ECAT_SOE_IDN_LISTS_CANNOT_HAVE_A_MAXIMUM_VALUE Lists cannot have a maximum value.
0xC0220011	ERR_ECAT_SOE_IDN_NAME_EXCEEDS_ALLOCATED_LENGTH Name exceeds allocated length.
0xC0220012	ERR_ECAT_SOE_IDN_UNIT_EXCEEDS_ALLOCATED_LENGTH Unit exceeds allocated length.
0xC0220013	ERR_ECAT_SOE_IDN_OPDATA_EXCEEDS_ALLOCATED_LENGTH OpData exceeds allocated length.
0xC0220014	ERR_ECAT_SOE_IDN_INVALID_MAX_LIST_LENGTH Invalid max list length.
0xC0220015	ERR_ECAT_SOE_IDN_DEFAULT_VALUE_EXCEEDS_ALLOCATED_LENGTH Default value exceeds allocated length.
0xC0220016	ERR_ECAT_SOE_IDN_MINIMUM_AND_MAXIMUM_VALUE_MUST_BE_USED_TOGETHER Minimum and maximum value must be used together.
0xC0220017	ERR_ECAT_SOE_IDN_USER_APPLICATION_TRANSFER_ERROR User application transfer error.

Hexadecimal value	Definition and description
0xC0221001	ERR_ECAT_SOE_SSC_NO_IDN IDN not available.
0xC0221009	ERR_ECAT_SOE_SSC_INVALID_ACCESS_TO_ELEMENT_1 Invalid access to element 1.
0xC0222001	ERR_ECAT_SOE_SSC_NO_NAME No Name.
0xC0222002	ERR_ECAT_SOE_SSC_NAME_TRANSMISSION_IS_TOO_SHORT Name transmission is too short.
0xC0222003	ERR_ECAT_SOE_SSC_NAME_TRANSMISSION_IS_TOO_LONG Name transmission is too long.
0xC0222004	ERR_ECAT_SOE_SSC_NAME_CANNOT_BE_CHANGED Name cannot be changed (read only).
0xC0222005	ERR_ECAT_SOE_SSC_NAME_IS_WRITE_PROTECTED_AT_THIS_TIME Name is write protected at this time.
0xC0223002	ERR_ECAT_SOE_SSC_ATTRIBUTE_TRANSMISSION_IS_TOO_SHORT Attribute transmission is too short.
0xC0223003	ERR_ECAT_SOE_SSC_ATTRIBUTE_TRANSMISSION_IS_TOO_LONG Attribute transmission is too long.
0xC0223004	ERR_ECAT_SOE_SSC_ATTRIBUTE_CANNOT_BE_CHANGED Attribute cannot be changed (read only).
0xC0223005	ERR_ECAT_SOE_SSC_ATTRIBUTE_IS_WRITE_PROTECTED_AT_THIS_TIME Attribute is write protected at this time.
0xC0224001	ERR_ECAT_SOE_SSC_NO_UNIT No unit.
0xC0224002	ERR_ECAT_SOE_SSC_UNIT_TRANSMISSION_IS_TOO_SHORT Unit transmission is too short.
0xC0224003	ERR_ECAT_SOE_SSC_UNIT_TRANSMISSION_IS_TOO_LONG Unit transmission is too long.
0xC0224004	ERR_ECAT_SOE_SSC_UNIT_CANNOT_BE_CHANGED Unit cannot be changed (read only).
0xC0224005	ERR_ECAT_SOE_SSC_UNIT_IS_WRITE_PROTECTED_AT_THIS_TIME Unit is write protected at this time.
0xC0225001	ERR_ECAT_SOE_SSC_NO_MINIMUM_VALUE No minimum value.
0xC0225002	ERR_ECAT_SOE_SSC_MINIMUM_VALUE_TRANSMISSION_IS_TOO_SHORT Minimum value transmission is too short.
0xC0225003	ERR_ECAT_SOE_SSC_MINIMUM_VALUE_TRANSMISSION_IS_TOO_LONG Minimum value transmission is too long.
0xC0225004	ERR_ECAT_SOE_SSC_MINIMUM_VALUE_CANNOT_BE_CHANGED Minimum value cannot be changed (read only).
0xC0225005	ERR_ECAT_SOE_SSC_MINIMUM_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME Minimum value is write protected at this time.
0xC0226001	ERR_ECAT_SOE_SSC_NO_MAXIMUM_VALUE No maximum value.
0xC0226002	ERR_ECAT_SOE_SSC_MAXIMUM_VALUE_TRANSMISSION_IS_TOO_SHORT Maximum value transmission is too short.
0xC0226003	ERR_ECAT_SOE_SSC_MAXIMUM_VALUE_TRANSMISSION_IS_TOO_LONG Maximum value transmission is too long.

Hexadecimal value	Definition and description
0xC0226004	ERR_ECAT_SOE_SSC_MAXIMUM_VALUE_CANNOT_BE_CHANGED Maximum value cannot be changed (read only).
0xC0226005	ERR_ECAT_SOE_SSC_MAXIMUM_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME Maximum value is write protected at this time.
0xC0227002	ERR_ECAT_SOE_SSC_OPDATA_TRANSMISSION_IS_TOO_SHORT Operation data transmission is too short.
0xC0227003	ERR_ECAT_SOE_SSC_OPDATA_TRANSMISSION_IS_TOO_LONG Operation data transmission is too long.
0xC0227004	ERR_ECAT_SOE_SSC_OPDATA_CANNOT_BE_CHANGED Operation data cannot be changed (read only).
0xC0227005	ERR_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_THIS_TIME Operation data is write protected at this time.
0xC0227006	ERR_ECAT_SOE_SSC_OPDATA_IS_LOWER_THAN_MINIMUM_VALUE Operation data is lower than Minimum value.
0xC0227007	ERR_ECAT_SOE_SSC_OPDATA_IS_HIGHER_THAN_MAXIMUM_VALUE Operation data is higher than Maximum value.
0xC0227008	ERR_ECAT_SOE_SSC_OPDATA_IS_INVALID Invalid operation data.
0xC0227009	ERR_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_BY_PASSWORD Operation data is write protected by password.
0xC022700A	ERR_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_DUE_CYCLICALLY_CONFIGURED Operation data is write protected. It is configured cyclically.
0xC022700B	ERR_ECAT_SOE_SSC_OPDATA_INVALID_INDIRECT_ADDRESSING Invalid indirect addressing.
0xC022700C	ERR_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_DUE_OTHER_SETTINGS Operation data is write protected due other settings.
0xC022700D	ERR_ECAT_SOE_SSC_OPDATA_INVALID_FLOATING_POINT_NUMBER Invalid floating point number.
0xC022700E	ERR_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_PARAMETERIZATION_LEVEL Operation data is write protected at parameterization level.
0xC022700F	ERR_ECAT_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_OPERATION_LEVEL Operation data is write protected at operation level.
0xC0227010	ERR_ECAT_SOE_SSC_OPDATA_PROCEDURE_COMMAND_ALREADY_ACTIVE Procedure command already active.
0xC0227011	ERR_ECAT_SOE_SSC_OPDATA_PROCEDURE_COMMAND_NOT_INTERRUPTIBLE Procedure command not interruptible.
0xC0227012	ERR_ECAT_SOE_SSC_OPDATA_PROCEDURE_COMMAND_NOT_EXECUTABLE_AT_THIS_TIME Procedure Command is not executable at this time (e.g. wrong slave state).
0xC0227013	ERR_ECAT_SOE_SSC_OPDATA_PROCEDURE_COMMAND_NOT_EXECUTABLE_INVALID_PARAMETERS Procedure Command is not executable due to invalid parameters.
0xC0228001	ERR_ECAT_SOE_SSC_NO_DEFAULT_VALUE No default value.
0xC0228004	ERR_ECAT_SOE_SSC_DEFAULT_VALUE_CANNOT_BE_CHANGED Default value cannot be changed (read only).
0xC0228002	ERR_ECAT_SOE_SSC_DEFAULT_VALUE_TRANSMISSION_IS_TOO_SHORT Default value transmission is too short.

Hexadecimal value	Definition and description
0xC0228003	ERR_ECAT_SOE_SSC_DEFAULT_VALUE_TRANSMISSION_IS_TOO_LONG Default value transmission is too long.

Table 20: EtherCAT SoE stack error codes

3.3.4 EtherCAT EoE

Hexadecimal value	Definition and description
0xC0230001	ERR_ECAT_EOE_COMMAND_INVALID Invalid command.
0xC0230002	ERR_ECAT_EOE_VIRTUAL_SWITCH_NOT_PRESENT Virtual Switch not present.
0x40230002	INFO_ECAT_EOE_CONFIG_INTERFACE_NOT_INITIALIZED Configuration interface not initialized.
0x00230003	SUCCESS_ECAT_EOE_IP_CONFIG_DATA_NOT_VALID IP configuration data not valid.
0xC0230004	ERR_ECAT_EOE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters.
0xC0230005	ERR_ECAT_EOE_PARAM_UNSPECIFIED_ERROR Unspecified Error.
0xC0230006	ERR_ECAT_EOE_PARAM_UNSUPPORTED_FRAME_TYPE Unsupported Frame Type.
0xC0230007	ERR_ECAT_EOE_PARAM_NO_IP_SUPPORT No IP Support.
0xC0230008	ERR_ECAT_EOE_PARAM_NO_FILTER_SUPPORT No Filter Support.

Table 21: EtherCAT EoE stack error codes

3.3.5 EtherCAT FoE

Hexadecimal value	Definition and description
0xC0240001	ERR_ECAT_FOE_COMMAND_INVALID Invalid command.
0x80240002	WARN_ECAT_FOE_INVALID_OPCODE Invalid FoE opcode.
0xC0240003	ERR_ECAT_FOE_UNKNOWN_FILESYSTEM Unknown file system.
0x40240004	INFO_ECAT_FOE_CONFIG_INTERFACE_NOT_INITIALIZED Configuration interface not initialized.
0xC0240005	ERR_ECAT_FOE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters.

Table 22: EtherCAT FoE stack error codes

3.3.6 EtherCAT AoE

Hexadecimal value	Definition and description
0xC0250001	ERR_ECAT_AOE_COMMAND_INVALID Invalid command.
0x40250002	INFO_ECAT_AOE_CONFIG_INTERFACE_NOT_INITIALIZED Configuration interface not initialized.
0xC0250003	ERR_ECAT_AOE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters.

Table 23: EtherCAT AoE stack error codes

3.3.7 EtherCAT VoE

Hexadecimal value	Definition and description
0xC0260001	ERR_ECAT_VOE_COMMAND_INVALID Invalid command.
0x80260002	WARN_ECAT_VOE_NO_RECEIVER_FOR_VENDOR_PROFILE No receiver for vendor profile.
0xC0260003	ERR_ECAT_VOE_VENDOR_PROFILE_ALREADY_REGISTERED Vendor profile is already registered.
0xC0260004	ERR_ECAT_VOE_VENDOR_PROFILE_NOT_REGISTERED Vendor profile is not registered.
0xC0260005	ERR_ECAT_VOE_OUT_OF_MEMORY Out of memory.
0xC0260006	ERR_ECAT_VOE_COULD_NOT_SEND_MBX_MESSAGE Could not send mailbox message.
0xC0260007	ERR_ECAT_VOE_NOT_ENOUGH_MEMORY Not enough memory.

Table 24: EtherCAT VoE stack error codes

3.3.8 EtherCAT Slave DPM Application Task

Hexadecimal value	Definition and description
0xC04C0001	ERR_ECAT_DPM_COMMAND_INVALID Invalid command received.
0xC04C0002	ERR_ECAT_DPM_INVALID_IO_SIZE Configuration rejected due to invalid I/O size.
0xC04C0003	ERR_ECAT_DPM_WATCHDOG_TIMEOUT_EXPIRED Watchdog timeout expired.
0xC04C0004	ERR_ECAT_DPM_INVALID_WATCHDOG_TIME Configuration rejected due to invalid Watchdog time.
0xC04C0005	ERR_ECAT_DPM_INVALID_IO_SIZE_2 Configuration rejected due to invalid I/O size.
0xC04C0006	ERR_ECAT_DPM_INVALID_IO_SIZE_3 Configuration rejected due to invalid I/O size.
0xC04C0007	ERR_ECAT_DPM_INVALID_IO_SIZE_4 Configuration rejected due to invalid I/O size.
0xC04C0008	ERR_ECAT_DPM_BUS_SYNCHRONOUS_NOT_SUPPORTED Bus Synchronous Mode is not supported.
0xC04C0009	ERR_ECAT_DPM_UPDATE_CFG_SM2_UPDATE_PARAMETER_IS_INVALID Sm2 Update Parameter is invalid.
0xC04C000A	ERR_ECAT_DPM_UPDATE_CFG_SM3_UPDATE_PARAMETER_IS_INVALID Sm2 Update Parameter is invalid.
0xC04C000B	ERR_ECAT_DPM_UPDATE_CFG_BUS_SYNC_UPDATE_PARAMETER_IS_INVALID Bus-Sync Update Parameter is invalid.
0xC04C000C	ERR_ECAT_AP_REQUEST_ABORTED Request has been aborted.
0xC04C000D	ERR_ECAT_AP_NXD_GENERAL_ERROR Unknown error while parsing database.
0xC04C000E	ERR_ECAT_AP_NXD_NOT_AVAILABLE No database available.
0xC04C000F	ERR_ECAT_AP_NXD_INVALID_NXD_TYPE Not an EtherCAT slave database.
0xC04C0010	ERR_ECAT_AP_NXD_INVALID_STRUCTURE Invalid database structure.
0xC04C0011	ERR_ECAT_AP_NXD_INVALID_NXD_VERSION Database version not supported.
0xC04C0012	ERR_ECAT_AP_NXD_INVALID_ECS_CONFIG Invalid stack configuration.
0xC04C0013	ERR_ECAT_AP_NXD_INVALID_SM_CONFIG Invalid Sync Manager configuration.
0xC04C0014	ERR_ECAT_AP_NXD_INVALID_SM0_CONFIG Invalid Sync Manager 0 configuration.
0xC04C0015	ERR_ECAT_AP_NXD_INVALID_SM1_CONFIG Invalid Sync Manager 1 configuration.
0xC04C0016	ERR_ECAT_AP_NXD_INVALID_SM2_CONFIG Invalid Sync Manager 2 configuration.
0xC04C0017	ERR_ECAT_AP_NXD_INVALID_SM3_CONFIG Invalid Sync Manager 3 configuration.

Hexadecimal value	Definition and description
0xC04C0018	ERR_ECAT_AP_NXD_INVALID_SM4_CONFIG Invalid Sync Manager 4 configuration.
0xC04C0019	ERR_ECAT_AP_NXD_INVALID_SM5_CONFIG Invalid Sync Manager 5 configuration.
0xC04C001A	ERR_ECAT_AP_NXD_INVALID_SM6_CONFIG Invalid Sync Manager 6 configuration.
0xC04C001B	ERR_ECAT_AP_NXD_INVALID_SM7_CONFIG Invalid Sync Manager 7 configuration.
0xC04C001C	ERR_ECAT_AP_NXD_INVALID_HSK_CONFIG Invalid configuration of process data handshakes.

Table 25: EtherCAT Slave DPM Application Task

3.3.9 EtherCAT Master AP Task

Hexadecimal value	Definition and description
0xC0640001	ERR_ETHERCAT_MASTER_AP_COMMAND_INVALID Invalid command received.
0xC0640002	ERR_ETHERCAT_MASTER_AP_DPM_WATCHDOG_TIMEOUT_EXPIRED The watchdog expired.
0xC0640003	ERR_ETHERCAT_MASTER_AP_WATCHDOG_TIME_TOO_SMALL The requested Watchdog time is too small.
0xC0640004	ERR_ETHERCAT_MASTER_AP_WATCHDOG_TIME_TOO_LARGE The requested Watchdog time is too large.
0xC0640005	ERR_ETHERCAT_MASTER_AP_WATCHDOG_RESET_ERROR Error during Reset (resetting watchdog).
0xC0640006	ERR_ETHERCAT_MASTER_AP_CLEANUP_ERROR Error during Reset (cleanup the dynamic resources).
0xC0640007	ERR_ETHERCAT_MASTER_AP_CRITIAL_ERROR_STATE Master is in critical error state, reset required.
0xC0640008	ERR_ETHERCAT_MASTER_AP_WATCHDOG_ACTIVATE_ERROR Error activating the watchdog.
0xC0640009	ERR_ETHERCAT_MASTER_AP_INPUT_DATA_TOO_LARGE Size of configured input data is larger than cyclic DPM input data size.
0xC064000A	ERR_ETHERCAT_MASTER_AP_OUTPUT_DATA_TOO_LARGE Size of configured output data is larger than cyclic DPM output data size.
0xC064000B	ERR_ETHERCAT_MASTER_AP_ENABLE_BUS_SYNC_FAILED Bus Synchronous mode could not be activated.
0xC064000C	ERR_ETHERCAT_MASTER_AP_TASK_CREATION_FAILED Task could not be created during runtime.
0xC064000D	ERR_ETHERCAT_MASTER_AP_BROKEN_RELATION_DEVICE_ECS NXD: 1:1 relation broken DEVICE -> ECS.
0xC064000E	ERR_ETHERCAT_MASTER_AP_BROKEN_RELATION_CONTROLLER_ECM NXD: 1:1 relation broken DEVICE -> ECM.
0xC064000F	ERR_ETHERCAT_MASTER_AP_BROKEN_RELATION_ECS_MBX NXD: relation broken ECS -> MBX.
0xC0640010	ERR_ETHERCAT_MASTER_AP_BROKEN_RELATION_ECS_PROCESSDATA NXD: relation broken ECS -> PROCESSDATA.
0xC0640011	ERR_ETHERCAT_MASTER_AP_BROKEN_RELATION_ECS_PREVIOUSPORT NXD: relation broken ECS -> PREVIOUSPORT.
0xC0640012	ERR_ETHERCAT_MASTER_AP_BROKEN_RELATION_MBX_COE NXD: relation broken MBX -> COE.
0xC0640013	ERR_ETHERCAT_MASTER_AP_BROKEN_RELATION_COE_INITCMDS NXD: relation broken COE -> COEINITCMDS.
0xC0640014	ERR_ETHERCAT_MASTER_AP_BROKEN_RELATION_CYCLIC_FRAME NXD: relation broken CYCLIC -> FRAME.
0xC0640015	ERR_ETHERCAT_MASTER_AP_BROKEN_RELATION_FRAME_CYCLICCMD NXD: relation broken FRAME -> CYCLICCMD.
0xC0640016	ERR_ETHERCAT_MASTER_AP_NXD_INTERROR_INITCMDS NXD: internal error on INITCMD handling.
0xC0640017	ERR_ETHERCAT_MASTER_AP_NXD_INTERROR_CYCLIC NXD: internal error on CYCLIC handling.

Hexadecimal value	Definition and description
0xC0640018	ERR_ETHERCAT_MASTER_AP_NXD_INTERROR_FRAME NXD: internal error on FRAME handling.
0xC0640019	ERR_ETHERCAT_MASTER_AP_NXD_INTERROR_CYCLICCMD NXD: internal error on CYCLICCMD handling.
0xC0640020	ERR_ETHERCAT_MASTER_AP_NXD_INTERROR_DEVICES NXD: internal error on DEVICES handling.
0xC0640021	ERR_ETHERCAT_MASTER_AP_NXD_INTERROR_STATE NXD: internal error, wrong state.
0xC0640022	ERR_ETHERCAT_MASTER_AP_NXD_INTERROR_COE_INITCMD NXD: internal error on COE_INITCMD handling.
0xC0640023	ERR_ETHERCAT_MASTER_AP_NXD_INTERROR_ECM NXD: internal error on ECM handling.
0xC0640024	ERR_ETHERCAT_MASTER_AP_NXD_INTERROR_SYNC NXD: internal error on SYNC handling.
0xC0640025	ERR_ETHERCAT_MASTER_AP_CHDIR_FAILED NXD: Change Directory failed.
0xC0640026	ERR_ETHERCAT_MASTER_AP_INVALID_INITCMD_LEN Invalid InitCmd length configuration
0xC0640027	ERR_ETHERCAT_MASTER_AP_INVALID_CYCLICCMD_LEN Invalid CyclicCmd length configuration.
0xC0640028	ERR_ETHERCAT_MASTER_AP_CONFIG_BY_FILE Configuration is done by "ethercat.xml" or "config.nxd", packet interface inactive.
0xC0640029	ERR_ETHERCAT_MASTER_AP_INVALID_COE_INITCMD_LEN Invalid CoE-InitCmd length configuration.
0xC064002A	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_CONTROLLERORADAPTER NXD: table CONTROLLERORADAPTER missing.
0xC064002B	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_DEVICES NXD: table DEVICES missing.
0xC064002C	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_ECM NXD: table ECM missing.
0xC064002D	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_ECS NXD: table ECS missing.
0xC064002E	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_INITCMDS NXD: table INITCMDS missing.
0xC064002F	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_CYCLIC NXD: table CYCLIC missing.
0xC0640030	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_FRAME NXD: table FRAME missing.
0xC0640031	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_CYCLICCMD NXD: table CYCLICCMD missing.
0xC0640032	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_PROCESSDATA NXD: table PROCESSDATA missing.
0xC0640033	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_PREVIOUSPORT NXD: table PREVIOUSPORT missing.
0xC0640034	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_MBX NXD: table MBX missing.
0xC0640035	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_COE NXD: table COE missing.

Hexadecimal value	Definition and description
0xC0640036	ERR_ETHERCAT_MASTER_AP_NXD_IDENTIFY_FAILED_INITCMDS_COE NXD: table INITCMDS_COE missing.
0xC0640037	ERR_ETHERCAT_MASTER_AP_NXD_NO_SLAVES_CONFIGURED At least one slave must be configured.

Table 26: EtherCAT Master AP Task status codes

3.3.10 EtherCAT Master

Hexadecimal value	Definition and description
0xC0650001	ERR_ETHERCAT_MASTER_COMMAND_INVALID Invalid command received.
0xC0650002	ERR_ETHERCAT_MASTER_NO_LINK No link exists.
0xC0650003	ERR_ETHERCAT_MASTER_ERROR_READING_BUSCONFIG Error during reading the bus configuration.
0xC0650004	ERR_ETHERCAT_MASTER_ERROR_PARSING_BUSCONFIG Error during processing the bus configuration.
0xC0650005	ERR_ETHERCAT_MASTER_ERROR_BUSSCAN_FAILED Existing bus does not match configured bus.
0xC0650006	ERR_ETHERCAT_MASTER_NOT_ALL_SLAVES_AVAIL Not all slaves are available.
0xC0650007	ERR_ETHERCAT_MASTER_STOPMASTER_ERROR Error during Reset (stopping the master).
0xC0650008	ERR_ETHERCAT_MASTER_DEINITMASTER_ERROR Error during Reset (deinitialize the master).
0xC0650009	ERR_ETHERCAT_MASTER_CLEANUP_ERROR Error during Reset (cleanup the dynamic resources).
0xC065000A	ERR_ETHERCAT_MASTER_CRITIAL_ERROR_STATE Master is in critical error state, reset required.
0xC065000B	ERR_ETHERCAT_MASTER_INVALID_BUSCYCLETIME The requested bus cycle time is invalid.
0xC065000C	ERR_ETHERCAT_MASTER_INVALID_BROKEN_SLAVE_BEHAVIOUR_PARA Invalid parameter for broken slave behavior.
0xC065000D	ERR_ETHERCAT_MASTER_WRONG_INTERNAL_STATE Master is in wrong internal state.
0xC065000E	ERR_ETHERCAT_MASTER_WATCHDOG_TIMEOUT_EXPIRED The watchdog expired.
0xC065000F	ERR_ETHERCAT_MASTER_COE_INVALID_SLAVEID Invalid Slave ID was used for CoE.
0xC0650010	ERR_ETHERCAT_MASTER_COE_NO_RESOURCE No available resources for CoE transfer.
0xC0650011	ERR_ETHERCAT_MASTER_COE_INTERNAL_ERROR Internal error during CoE usage.
0xC0650012	ERR_ETHERCAT_MASTER_COE_INVALID_INDEX Invalid slave index requested.
0xC0650013	ERR_ETHERCAT_MASTER_COE_INVALID_COMMUNICATION_STATE Invalid bus communication state for CoE usage.
0xC0650014	ERR_ETHERCAT_MASTER_COE_FRAME_LOST Frame with CoE data is lost.
0xC0650015	ERR_ETHERCAT_MASTER_COE_TIMEOUT Timeout during CoE service.
0xC0650016	ERR_ETHERCAT_MASTER_COE_SLAVE_NOT_ADDRESSABLE Slave is not addressable (not on bus or power down?).
0xC0650017	ERR_ETHERCAT_MASTER_COE_INVALID_LIST_TYPE Invalid list type requested (during GetOdList).

Hexadecimal value	Definition and description
0xC0650018	ERR_ETHERCAT_MASTER_COE_SLAVE_RESPONSE_TOO_BIG Data in Slave Response is too big for confirmation packet.
0xC0650019	ERR_ETHERCAT_MASTER_COE_INVALID_ACCESSBITMASK Invalid access mask selected (during GetEntryDesc).
0xC065001A	ERR_ETHERCAT_MASTER_COE_WKC_ERROR Slave Working Counter error during CoE service.
0xC065001B	ERR_ETHERCAT_MASTER_SERVICE_IN_USE The service is already in use.
0xC065001C	ERR_ETHERCAT_MASTER_INVALID_COMMUNICATION_STATE Command is not useable in this communication state.
0xC065001D	ERR_ETHERCAT_MASTER_DC_NOT_ACTIVATED Distributed Clocks must be activated for this command.
0xC065001E	ERR_ETHERCAT_MASTER_BUS_SCAN_CURRENTLY_RUNNING Bus Scan is currently running.
0xC065001F	ERR_ETHERCAT_MASTER_BUS_SCAN_TIMEOUT Bus Scan Timeout. No slave found.
0xC0650020	ERR_ETHERCAT_MASTER_BUS_SCAN_NOT_READY_YET Bus Scan is not ready yet.
0xC0650021	ERR_ETHERCAT_MASTER_BUS_SCAN_INVALID_SLAVE Invalid slave. No information available.
0xC0650022	ERR_ETHERCAT_MASTER_COE_INVALIDACCESS Slave does not allow reading or writing (CoE access).
0xC0650023	ERR_ETHERCAT_MASTER_COE_NO_MBX_SUPPORT Slave does not support a mailbox.
0xC0650024	ERR_ETHERCAT_MASTER_COE_NO_COE_SUPPORT Slave does not support CoE.
0xC0650025	ERR_ETHERCAT_MASTER_TASK_CREATION_FAILED Task could not be created during runtime.
0xC0650026	ERR_ETHERCAT_MASTER_INVALID_SLAVE_SM_CONFIGURATION The Sync Manager configuration of a slave is invalid.
0xC0650027	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_TOGGLE SDO abort code: Toggle bit not alternated.
0xC0650028	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_TIMEOUT SDO abort code: SDO protocol timed out.
0xC0650029	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_CCS_SCS SDO abort code: Client/server command specifier not valid or unknown.
0xC065002A	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_BLK_SIZE SDO abort code: Invalid block size (block mode only).
0xC065002B	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_SEQNO SDO abort code: Invalid sequence number (block mode only).
0xC065002C	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_CRC SDO abort code: CRC error (block mode only).
0xC065002D	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_MEMORY SDO abort code: Out of memory.
0xC065002E	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_ACCESS SDO abort code: Unsupported access to an object.
0xC065002F	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_WRITEONLY SDO abort code: Attempt to read a write only object.

Hexadecimal value	Definition and description
0xC0650030	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_READONLY SDO abort code: Attempt to write a read only object.
0xC0650031	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_INDEX SDO abort code: Object does not exist in the object dictionary.
0xC0650032	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_PDO_MAP SDO abort code: Object cannot be mapped to the PDO.
0xC0650033	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_PDO_LEN SDO abort code: The number and length of the objects to be mapped would exceed PDO length.
0xC0650034	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_P_INCOMP SDO abort code: General parameter incompatibility reason.
0xC0650035	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_I_INCOMP SDO abort code: General internal incompatibility in the device.
0xC0650036	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_HARDWARE SDO abort code: Access failed due to a hardware error.
0xC0650037	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_DATA_SIZE SDO abort code: Data type does not match, length of service parameter does not match.
0xC0650038	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_DATA_SIZE1 SDO abort code: Data type does not match, service parameter too long.
0xC0650039	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_DATA_SIZE2 SDO abort code: Data type does not match, service parameter too short.
0xC065003A	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_OFFSET SDO abort code: Subindex does not exist.
0xC065003B	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_DATA_RANGE SDO abort code: Value range of parameter exceeded (only for write access).
0xC065003C	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_DATA_RANGE1 SDO abort code: Value of parameter written too high.
0xC065003D	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_DATA_RANGE2 SDO abort code: Value of parameter written too low.
0xC065003E	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_MINMAX SDO abort code: Maximum value is less than minimum value.
0xC065003F	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_GENERAL SDO abort code: General error.
0xC0650040	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_TRANSFER SDO abort code: Data cannot be transferred to or stored in the application.
0xC0650041	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_TRANSFER1 SDO abort code: Data cannot be transferred to or stored in the application because of local control.
0xC0650042	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_TRANSFER2 SDO abort code: Data cannot be transferred to or stored in the application because of the present device state.
0xC0650043	ERR_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	ERR_ETHERCAT_MASTER_SDO_ABORTCODE_UNKNOWN SDO abort code: unknown code.
0xC0650045	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_ERROR Slave status code: Unspecified error.
0xC0650046	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVREQSTATECNG Slave status code: Invalid requested state change.

Hexadecimal value	Definition and description
0xC0650047	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_UNKREQSTATE Slave status code: Unknown requested state.
0xC0650048	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_BOOTSTRAPNSUPP Slave status code: Bootstrap not supported.
0xC0650049	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_NOVALIDFW Slave status code: No valid firmware.
0xC065004A	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVALIDMBXCNF1 Slave status code: Invalid mailbox configuration1.
0xC065004B	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVALIDMBXCNF2 Slave status code: Invalid mailbox configuration2.
0xC065004C	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVALIDSMCNF Slave status code: Invalid sync manager configuration.
0xC065004D	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_NOVALIDIN Slave status code: No valid inputs available.
0xC065004E	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_NOVALIDOUT Slave status code: No valid outputs.
0xC065004F	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_SYNCERROR Slave status code: Synchronization error.
0xC0650050	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_SMWATCHDOG Slave status code: Sync manager watchdog.
0xC0650051	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVSMTYPES Slave status code: Invalid Sync Manager Types.
0xC0650052	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVOUTCONFIG Slave status code: Invalid Output Configuration.
0xC0650053	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVINCONFIG Slave status code: Invalid Input Configuration.
0xC0650054	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVWDCONFIG Slave status code: Invalid Watchdog Configuration.
0xC0650055	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_SLVNEEDCOLDRS Slave status code: Slave needs cold start.
0xC0650056	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_SLVNEEDINIT Slave status code: Slave needs INIT.
0xC0650057	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_SLVNEEDPREOP Slave status code: Slave needs PREOP.
0xC0650058	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_SLVNEEDSAFEOP Slave status code: Slave needs SAFEOP.
0xC0650059	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVOUTFMMUCNFG Slave status code: Invalid Output FMMU Configuration.
0xC065005A	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVINFMMUCNFG Slave status code: Invalid Input FMMU Configuration.
0xC065005B	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVDCSYNCCNFG Slave status code: Invalid DC SYNCH Configuration.
0xC065005C	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVDCCLATCHCNFG Slave status code: Invalid DC Latch Configuration.
0xC065005D	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_PLLERROR Slave status code: PLL Error.
0xC065005E	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVDCIOERROR Slave status code: Invalid DC IO Error.

Hexadecimal value	Definition and description
0xC065005F	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_INVDCTOERROR Slave status code: Invalid DC Timeout Error.
0xC0650060	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_MBX_EOE Slave status code: MBX_EOE.
0xC0650061	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_MBX_COE Slave status code: MBX_COE.
0xC0650062	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_MBX_FOE Slave status code: MBX_FOE.
0xC0650063	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_MBX_SOE Slave status code: MBX_SOE.
0xC0650064	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_MBX_VOE Slave status code: MBX_VOE.
0xC0650065	ERR_ETHERCAT_MASTER_DEVICE_STATUSCODE_OTHER Slave status code: vendor specific error code.
0xC0650066	ERR_ETHERCAT_MASTER_PREVIOUS_PORT_MISSING Slave status code: PreviousPort configuration missing in bus configuration file (outdated configurator).
0xC0650067	ERR_ETHERCAT_MASTER_CONFIG_ALREADY_STARTED Configuration already started, cannot be started again.
0xC0650068	ERR_ETHERCAT_MASTER_CONFIG_NOT_STARTED Configuration was not started before.
0xC0650069	ERR_ETHERCAT_MASTER_CONFIG_SLAVE_INDEX_ALREADY_EXISTS Slave index already exists, cannot be created again.
0xC065006A	ERR_ETHERCAT_MASTER_CONFIG_SLAVE_PHYS_ADDR_ALREADY_EXISTS Slave physical address already exists, cannot be created again.
0xC065006B	ERR_ETHERCAT_MASTER_CONFIG_SLAVE_AUTOINC_ADDR_ALREADY_EXISTS Slave auto increment address already exists, cannot be created again.
0xC065006C	ERR_ETHERCAT_MASTER_CONFIG_SLAVE_INDEX_NOT_EXISTS Slave index does not exist, must be created before.
0xC065006D	ERR_ETHERCAT_MASTER_WRONG_VALIDATE_DATA_LEN Wrong length value for validate data.
0xC065006E	ERR_ETHERCAT_MASTER_INVALID_ECAT_CMD Invalid value for EtherCAT command.
0xC065006F	ERR_ETHERCAT_MASTER_PRECONFIGURED_DATA_CURRENTLY_NOT_SUPPORTED Sending preconfigured cyclic data is currently not supported.
0xC0650070	ERR_ETHERCAT_MASTER_INVALID_STATE Invalid value for EtherCAT state.
0xC0650071	ERR_ETHERCAT_MASTER_INVALID_TRANSITION Invalid value for EtherCAT transition.
0xC0650072	ERR_ETHERCAT_MASTER_COPY_INFOS_EXCEEDED Maximum amount of copy infos exceeded.
0xC0650073	ERR_ETHERCAT_MASTER_REDUNDANCY_AND_DC_ENABLED Redundancy and Distributed clocks enabled at the same time (not possible).
0xC0650074	ERR_ETHERCAT_MASTER_NO_SLAVES_CONFIGURED At least one slave must be configured.
0xC0650075	ERR_ETHERCAT_MASTER_STATE_CHANGE_BUSY State change is currently busy.

Hexadecimal value	Definition and description
0xC0650076	ERR_ETHERCAT_MASTER_INVALID_TARGET_PHASE Parameter target phase is invalid.

Table 27: EtherCAT Master packet status codes

3.3.11 EtherCAT Slave V4 DPM

Hexadecimal value	Definition and description
0xC0AE0001	TLR_DIAG_E_ECSV4_DPM_WATCHDOG_TRIGGERED DPM watchdog triggered.
0xC0AE0002	ERR_ECSV4_DPM_REQUEST_ABORTED Request has been aborted.
0xC0AE0003	ERR_ECSV4_DPM_NXD_GENERAL_ERROR Unknown error while parsing database.
0xC0AE0004	ERR_ECSV4_DPM_NXD_NOT_AVAILABLE No database available.
0xC0AE0005	ERR_ECSV4_DPM_NXD_INVALID_NXD_TYPE Not an EtherCAT slave database.
0xC0AE0006	ERR_ECSV4_DPM_NXD_INVALID_STRUCTURE Invalid database structure.
0xC0AE0007	ERR_ECSV4_DPM_NXD_INVALID_NXD_VERSION Invalid database version.
0xC0AE0008	ERR_ECSV4_DPM_NXD_INVALID_ECS_CONFIG Invalid EtherCAT slave stack configuration.
0xC0AE0009	ERR_ECSV4_DPM_NXD_INVALID_SM_CONFIG Invalid Sync Manager configuration.
0xC0AE000A	ERR_ECSV4_DPM_NXD_INVALID_SM0_CONFIG Invalid Sync Manager 0 configuration.
0xC0AE000B	ERR_ECSV4_DPM_NXD_INVALID_SM1_CONFIG Invalid Sync Manager 1 configuration.
0xC0AE000C	ERR_ECSV4_DPM_NXD_INVALID_SM2_CONFIG Invalid Sync Manager 2 configuration.
0xC0AE000D	ERR_ECSV4_DPM_NXD_INVALID_SM3_CONFIG Invalid Sync Manager 3 configuration.
0xC0AE000E	ERR_ECSV4_DPM_NXD_INVALID_SM4_CONFIG Invalid Sync Manager 4 configuration.
0xC0AE000F	ERR_ECSV4_DPM_NXD_INVALID_SM5_CONFIG Invalid Sync Manager 5 configuration.
0xC0AE0010	ERR_ECSV4_DPM_NXD_INVALID_SM6_CONFIG Invalid Sync Manager 6 configuration.
0xC0AE0011	ERR_ECSV4_DPM_NXD_INVALID_SM7_CONFIG Invalid Sync Manager 7 configuration.
0xC0AE0012	ERR_ECSV4_DPM_NXD_INVALID_SM8_CONFIG Invalid Sync Manager 8 configuration.
0xC0AE0013	ERR_ECSV4_DPM_NXD_INVALID_HSK_CONFIG Invalid configuration of process data handshakes.

Table 28: EtherCAT Slave V4 DPM diagnostic codes

3.3.12 EtherCAT Slave V4 ESM

Hexadecimal value	Definition and description
0x00AF0001	TLR_DIAG_S_ECSV4_ESM_STATE_INIT Slave is in state INIT.
0x00AF0002	TLR_DIAG_S_ECSV4_ESM_STATE_PREOP Slave is in state PREOP.
0x00AF0003	TLR_DIAG_S_ECSV4_ESM_STATE_SAFEOP Slave is in state SAFEOP.
0x00AF0004	TLR_DIAG_S_ECSV4_ESM_STATE_OP Slave is in state OP.
0x80AF0005	TLR_DIAG_W_ECSV4_ESM_STATE_ERR_INIT Slave is in state ERR INIT.
0x80AF0006	TLR_DIAG_W_ECSV4_ESM_STATE_ERR_PREOP Slave is in state ERR PREOP.
0x80AF0007	TLR_DIAG_W_ECSV4_ESM_STATE_ERR_SAFEOP Slave is in state ERR SAFEOP.
0x80AF0008	TLR_DIAG_W_ECSV4_ESM_STATE_ERR_OP Slave is in state ERR OP.
0x00AF0009	TLR_DIAG_S_ECSV4_ESM_STATE_BOOTING Slave is booting.
0xC0AF000A	ERR_ECSV4_ESM_TOO_MANY_APPLICATIONS_ALREADY_REGISTERED Too many applications already registered for indications.
0xC0AF000B	ERR_ECSV4_ESM_INPUTSIZE_AND_OUTPUSIZE_ZERO Invalid I/O size: input size and output size both are 0.
0xC0AF000C	ERR_ECSV4_ESM_OUTPUTSIZE_EXCEEDS_MAX Invalid I/O size: output size exceeds maximum (depends on chip type).
0xC0AF000D	ERR_ECSV4_ESM_INPUTSIZE_EXCEEDS_MAX Invalid I/O size: input size exceeds maximum (depends on chip type).
0xC0AF000E	ERR_ECSV4_ESM_SUM_OF_INPUTSIZE_AND_OUTPUSIZE_EXCEEDS_MAX Invalid I/O size: sum of input size and output size exceeds maximum (depends on chip type).
0xC0AF000F	ERR_ECSV4_ESM_FUNCTION_NOT_SUPPORTED Function not supported.
0xC0AF0010	ERR_ECSV4_ESM_FUNCTION_NOT_ALLOWED Function not allowed.
0xC0AF0011	ERR_ECSV4_ESM_SM_LENGTH_NOT_ALIGNED Syncmanager length not aligned (to 4 byte)
0xC0AF0012	ERR_ECSV4_ESM_SUMM_OF_SM_LENGTH_EXCEED_MAX_SIZE Invalid SM size: sum of input size and output size over all syncmanager exceeds maximum (depends on chip type).
0xC0AF0013	ERR_ECSV4_ESM_WRONG_SM_STARTADDRESS Invalid SM start address: conflict in SM start addresses or value not in range of memory.
0xC0AF0014	ERR_ECSV4_ESM_SM2_STARTADDR_AND_ALIGNED_DATA_OVERLAP_SM3_STARTADDR Start address and 3 x (io data size + alignment) are overlapping SM3 start address.
0xC0AF0015	ERR_ECSV4_ESM_SM_STARTADDR_AND_ALIGNED_DATA_EXCEED_END_OF_DATA_ARE_A Start address and 3 x (io data size + alignment) are higher than max possible address.
0xC0AF0016	ERR_ECSV4_ESM_MAILBOX_AREA_AND_SM_STARTADDR_OVERLAP Data area for mailboxes overlap with SM2 or Sm3 start address.

Hexadecimal value	Definition and description
0xC0AF0017	ERR_ECSV4_ESM_FOE_TIMEOUT_TOO_SMALL FoE timeout is too small, larger than 0 expected.
0xC0AF0018	ERR_ECSV4_ESM_OBJECTDICTIONARY_INDICATION_TIMEOUT_TOO_SMALL ODV timeout is too small, larger than 0 expected

Table 29: EtherCAT Slave V4 ESM diagnostic codes

3.3.13 EtherCAT Slave V4 MBX

Hexadecimal value	Definition and description
0xC0B00001	ERR_ECSV4_MBX_INITIALIZATION_INVALID Mailbox initialization invalid.
0xC0B00002	ERR_ECSV4_MBX_MAILBOX_NOT_ACTIVE Mailbox is not active.

Table 30: EtherCAT Slave V4 MBX error codes

3.3.14 EtherCAT Slave V4 CoE SDO

Hexadecimal value	Definition and description
0xC0B10001	ERR_ECSV4_COE_SDOABORT_TOGGLE_BIT_NOT_CHANGED Toggle bit was not changed.
0xC0B10002	ERR_ECSV4_COE_SDOABORT_SDO_PROTOCOL_TIMEOUT SDO protocol timeout.
0xC0B10003	ERR_ECSV4_COE_SDOABORT_CLIENT_SERVER_COMMAND_SPECIFIER_NOT_VALID Client/Server command specifier not valid or unknown.
0xC0B10004	ERR_ECSV4_COE_SDOABORT_OUT_OF_MEMORY Out of memory.
0xC0B10005	ERR_ECSV4_COE_SDOABORT_UNSUPPORTED_ACCESS_TO_AN_OBJECT Unsupported access to an object.
0xC0B10006	ERR_ECSV4_COE_SDOABORT_ATTEMPT_TO_READ_A_WRITE_ONLY_OBJECT Attempt to read a write only object.
0xC0B10007	ERR_ECSV4_COE_SDOABORT_ATTEMPT_TO_WRITE_TO_A_READ_ONLY_OBJECT Attempt to write to a read only object.
0xC0B10008	ERR_ECSV4_COE_SDOABORT_OBJECT_DOES_NOT_EXIST The object does not exist in the object dictionary.
0xC0B10009	ERR_ECSV4_COE_SDOABORT_OBJECT_CAN_NOT_BE_MAPPED_INTO_THE_PDO The object cannot be mapped into the PDO.
0xC0B1000A	ERR_ECSV4_COE_SDOABORT_NUMBER_AND_LENGTH_OF_OBJECTS_WOULD_EXCEED_PDO_LENGTH The number and length of the objects to be mapped would exceed the PDO length.
0xC0B1000B	ERR_ECSV4_COE_SDOABORT_GENERAL_PARAMETER_INCOMPATIBILITY_REASON General parameter incompatibility reason.
0xC0B1000C	ERR_ECSV4_COE_SDOABORT_GENERAL_INTERNAL_INCOMPATIBILITY_IN_DEVICE General internal incompatibility in the device.
0xC0B1000D	ERR_ECSV4_COE_SDOABORT_ACCESS_FAILED_DUE_TO_A_HARDWARE_ERROR Access failed due to a hardware error.
0xC0B1000E	ERR_ECSV4_COE_SDOABORT_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 and description
0xC0B1000F	ERR_ECSV4_COE_SDOABORT_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_TOO_HIGH Data type does not match, service parameter too long.
0xC0B10010	ERR_ECSV4_COE_SDOABORT_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_TOO_LOW Data type does not match, service parameter too short.
0xC0B10011	ERR_ECSV4_COE_SDOABORT_SUBINDEX_DOES_NOT_EXIST Subindex does not exist.
0xC0B10012	ERR_ECSV4_COE_SDOABORT_VALUE_RANGE_OF_PARAMETER_EXCEEDED Value range of parameter exceeded (only for write access).
0xC0B10013	ERR_ECSV4_COE_SDOABORT_VALUE_OF_PARAMETER_WRITTEN_TOO_HIGH Value of parameter written too high.
0xC0B10014	ERR_ECSV4_COE_SDOABORT_VALUE_OF_PARAMETER_WRITTEN_TOO_LOW Value of parameter written too low.
0xC0B10015	ERR_ECSV4_COE_SDOABORT_MAXIMUM_VALUE_IS_LESS_THAN_MINIMUM_VALUE Maximum value is less than minimum value.
0xC0B10016	ERR_ECSV4_COE_SDOABORT_GENERAL_ERROR General error.
0xC0B10017	ERR_ECSV4_COE_SDOABORT_DATA_CANNOT_BE_TRANSFERRED_OR_STORED_TO_THE_APP Data cannot be transferred to or stored in the application.
0xC0B10018	ERR_ECSV4_COE_SDOABORT_DATA_CANNOT_BE_TRANSFERRED_OR_STORED_DUE_TO_LOCAL_CONTROL Data cannot be transferred to or stored in the application because of local control.
0xC0B10019	ERR_ECSV4_COE_SDOABORT_DATA_CANNOT_BE_TRANSFERRED_OR_STORED_DUE_TO_PRESENT_DEVICE_STATE Data cannot be transferred to or stored in the application because of the present device state.
0xC0B1001A	ERR_ECSV4_COE_SDOABORT_NO_OBJECT_DICTIONARY_PRESENT Object dictionary dynamic generation fails or no object dictionary is present.
0xC0B1001B	ERR_ECSV4_COE_SDOABORT_UNKNOWN_ABORT_CODE Unknown SDO abort code.
0xC0B1001E	ERR_ECSV4_COE_SDOABORT_SUBINDEX_CANNOT_BE_WRITTEN_SIO_MUST_BE_0 Subindex cannot be written, Subindex 0 must be 0 for write access.
0xC0B1001F	ERR_ECSV4_COE_SDOABORT_COMPLETE_ACCESS_NOT_SUPPORTED Complete Access not supported.
0xC0B10020	ERR_ECSV4_COE_SDOABORT_OBJECT_MAPPED_TO_RXPDO_DOWNLOAD_BLOCKED Object mapped to RxPDO. SDO Download blocked.
0xC0B10021	ERR_ECSV4_COE_SDOABORT_OBJECT_LENGTH_EXCEEDS_MAILBOX_SIZE Object length exceeds mailbox size.
0xC0B1001C	ERR_ECSV4_COE_EMERGENCY_MESSAGE_COULD_NOT_BE_SENT CoE emergency message could not be sent.
0xC0B1001D	ERR_ECSV4_COE_EMERGENCY_MESSAGE_HAS_INVALID_PRIORITY CoE emergency message has invalid priority.

Table 31: EtherCAT Slave V4 CoE SDO abort codes

3.3.15 EtherCAT Slave V4 EoE

Hexadecimal value	Definition and description
0xC0B20001	ERR_ECSV4_EOE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters.
0xC0B20002	ERR_ECSV4_EOE_PARAM_UNSUPPORTED_FRAME_TYPE Unsupported frame type.
0xC0B20003	ERR_ECSV4_EOE_PARAM_NO_IP_SUPPORT No IP Support.
0xC0B20004	TLR_DIAG_E_ECSV4_EOE_FAILED_TO_IDENTIFY_TCPIP_QUEUE Failed to identify TCP/IP queue.
0xC0B20005	TLR_DIAG_E_ECSV4_EOE_FAILED_TO_GET_PACKET Failed to get a packet from pool.
0xC0B20006	TLR_DIAG_E_ECSV4_EOE_FAILED_TO_EXCHANGE_PACKET Failed to exchange packet.
0xC0B20007	ERR_ECSV4_EOE_PARAM_NO_DHCP_SUPPORT No DHCP Support.

Table 32: EtherCAT Slave V4 EoE error codes

3.3.16 EtherCAT Slave V4 FoE

Hexadecimal value	Definition and description
0xC0B30001	ERR_ECSV4_FOE_INVALID_TIMEOUT_PARAMS Invalid timeout parameters.
0xC0B30002	ERR_ECSV4_FOE_INVALID_OPCODE Invalid opcode.

Table 33: EtherCAT Slave V4 FoE error codes

3.3.17 EtherCAT Slave V4 SoE

Hexadecimal value	Definition and description
0xC0B40001	ERR_ECSV4_SOE_IDN_ALREADY_EXISTS IDN already exists.
0xC0B40002	ERR_ECSV4_SOE_IDN_ATTRIBUTE_INVALID Attribute invalid.
0xC0B40003	ERR_ECSV4_SOE_IDN_INVALID_MAX_DATA_SIZE_SPECIFIED Invalid maximal data size specified.
0xC0B40004	ERR_ECSV4_SOE_IDN_DRIVE_NUMBER_INVALID Drive number invalid.
0xC0B40005	ERR_ECSV4_SOE_IDN_UNDEFINED_NOTIFY_ALREADY_IN_USE Undefined notify already in use.
0xC0B40006	ERR_ECSV4_SOE_IDN_INVALID_ELEMENT_ID Invalid element id.
0xC0B40007	ERR_ECSV4_SOE_IDN_APP_PACKET_RESPONSE_INVALID Application's packet response invalid.
0xC0B40008	ERR_ECSV4_SOE_IDN_APP_SSC_TRANSFER_TOO_LONG Application's transfer too long.
0xC0B40009	ERR_ECSV4_SOE_IDN_APP_SSC_TRANSFER_LENGTH_WRONG Application's transfer length wrong.
0xC0B4000A	ERR_ECSV4_SOE_IDN_APP_MTU_TOO_LOW Application's MTU is too low.
0xC0B4000B	ERR_ECSV4_SOE_IDN_INVALID_DEST_ID Invalid destination ID.
0xC0B4000C	ERR_ECSV4_SOE_IDN_LISTS_CANNOT_HAVE_A_MINIMUM_VALUE Lists cannot have a minimum value.
0xC0B4000D	ERR_ECSV4_SOE_IDN_LISTS_CANNOT_HAVE_A_MAXIMUM_VALUE Lists cannot have a maximum value.
0xC0B4000E	ERR_ECSV4_SOE_IDN_NAME_EXCEEDS_ALLOCATED_LENGTH Name exceeds allocated length.
0xC0B4000F	ERR_ECSV4_SOE_IDN_UNIT_EXCEEDS_ALLOCATED_LENGTH Unit exceeds allocated length.
0xC0B40010	ERR_ECSV4_SOE_IDN_OPDATA_EXCEEDS_ALLOCATED_LENGTH OpData exceeds allocated length.
0xC0B40011	ERR_ECSV4_SOE_IDN_INVALID_MAX_LIST_LENGTH Invalid maximal list length.
0xC0B40012	ERR_ECSV4_SOE_IDN_MINIMUM_AND_MAXIMUM_VALUE_MUST_BE_USED_TOGETHER Minimum and maximum value must be used together.
0xC0B40013	ERR_ECSV4_SOE_IDN_USER_APPLICATION_TRANSFER_ERROR User application transfer error.
0xC0B41001	ERR_ECSV4_SOE_SSC_NO_IDN No IDN.
0xC0B41009	ERR_ECSV4_SOE_SSC_INVALID_ACCESS_TO_ELEMENT_1 Invalid access to element 1.
0xC0B42001	ERR_ECSV4_SOE_SSC_NO_NAME No Name.
0xC0B42002	ERR_ECSV4_SOE_SSC_NAME_TRANSMISSION_IS_TOO_SHORT Name transmission is too short.

Hexadecimal value	Definition and description
0xC0B42003	ERR_ECSV4_SOE_SSC_NAME_TRANSMISSION_IS_TOO_LONG Name transmission is too long.
0xC0B42004	ERR_ECSV4_SOE_SSC_NAME_CANNOT_BE_CHANGED Name cannot be changed (read only).
0xC0B42005	ERR_ECSV4_SOE_SSC_NAME_IS_WRITE_PROTECTED_AT_THIS_TIME Name is write-protected at this time.
0xC0B43002	ERR_ECSV4_SOE_SSC_ATTRIBUTE_TRANSMISSION_IS_TOO_SHORT Attribute transmission is too short.
0xC0B43003	ERR_ECSV4_SOE_SSC_ATTRIBUTE_TRANSMISSION_IS_TOO_LONG Attribute transmission is too long.
0xC0B43004	ERR_ECSV4_SOE_SSC_ATTRIBUTE_CANNOT_BE_CHANGED Attribute cannot be changed (read only).
0xC0B43005	ERR_ECSV4_SOE_SSC_ATTRIBUTE_IS_WRITE_PROTECTED_AT_THIS_TIME Attribute is write-protected at this time.
0xC0B44001	ERR_ECSV4_SOE_SSC_NO_UNITS No units.
0xC0B44002	ERR_ECSV4_SOE_SSC_UNIT_TRANSMISSION_IS_TOO_SHORT Unit transmission is too short.
0xC0B44003	ERR_ECSV4_SOE_SSC_UNIT_TRANSMISSION_IS_TOO_LONG Unit transmission is too long.
0xC0B44004	ERR_ECSV4_SOE_SSC_UNIT_CANNOT_BE_CHANGED Unit cannot be changed (read only).
0xC0B44005	ERR_ECSV4_SOE_SSC_UNIT_IS_WRITE_PROTECTED_AT_THIS_TIME Unit is write-protected at this time.
0xC0B45001	ERR_ECSV4_SOE_SSC_NO_MINIMUM_INPUT_VALUE No minimum input value.
0xC0B45002	ERR_ECSV4_SOE_SSC_MINIMUM_INPUT_VALUE_TRANSMISSION_IS_TOO_SHORT Minimum input value transmission is too short.
0xC0B45003	ERR_ECSV4_SOE_SSC_MINIMUM_INPUT_VALUE_TRANSMISSION_IS_TOO_LONG Minimum input value transmission is too long.
0xC0B45004	ERR_ECSV4_SOE_SSC_MINIMUM_INPUT_VALUE_CANNOT_BE_CHANGED Minimum input value cannot be changed (read only).
0xC0B45005	ERR_ECSV4_SOE_SSC_MINIMUM_INPUT_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME Minimum input value is write-protected at this time.
0xC0B46001	ERR_ECSV4_SOE_SSC_NO_MAXIMUM_INPUT_VALUE No maximum input value.
0xC0B46002	ERR_ECSV4_SOE_SSC_MAXIMUM_INPUT_VALUE_TRANSMISSION_IS_TOO_SHORT Maximum input value transmission is too short.
0xC0B46003	ERR_ECSV4_SOE_SSC_MAXIMUM_INPUT_VALUE_TRANSMISSION_IS_TOO_LONG Maximum input value transmission is too long.
0xC0B46004	ERR_ECSV4_SOE_SSC_MAXIMUM_INPUT_VALUE_CANNOT_BE_CHANGED Maximum input value cannot be changed (read only).
0xC0B46005	ERR_ECSV4_SOE_SSC_MAXIMUM_INPUT_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME Maximum input value is write-protected at this time.
0xC0B47002	ERR_ECSV4_SOE_SSC_OPDATA_TRANSMISSION_IS_TOO_SHORT Operation data transmission is too short.

Hexadecimal value	Definition and description
0xC0B47003	ERR_ECSV4_SOE_SSC_OPDATA_TRANSMISSION_IS_TOO_LONG Operation data transmission is too long.
0xC0B47004	ERR_ECSV4_SOE_SSC_OPDATA_CANNOT_BE_CHANGED Operation data cannot be changed (read only).
0xC0B47005	ERR_ECSV4_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_THIS_TIME Operation data is write-protected at this time.
0xC0B47006	ERR_ECSV4_SOE_SSC_OPDATA_IS_LOWER_THAN_MINIMUM_VALUE Operation data is lower than minimum input value.
0xC0B47007	ERR_ECSV4_SOE_SSC_OPDATA_IS_HIGHER_THAN_MAXIMUM_VALUE Operation data is higher than maximum input value.
0xC0B47008	ERR_ECSV4_SOE_SSC_OPDATA_IS_INVALID Invalid operation data.
0xC0B47009	ERR_ECSV4_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_BY_PASSWORD Operation data is write-protected by a password.
0xC0B4700A	ERR_ECSV4_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_DUE_CYCLICALLY_CONFIGURED Operation data is write-protected, it is configured cyclically.
0xC0B4700B	ERR_ECSV4_SOE_SSC_OPDATA_INVALID_INDIRECT_ADDRESSING Invalid indirect addressing.
0xC0B4700C	ERR_ECSV4_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_DUE_TO_OTHER_SETTINGS Operation data is write-protected due to other settings.
0xC0B4700D	ERR_ECSV4_SOE_SSC_OPDATA_INVALID_FLOATING_POINT_NUMBER Invalid floating point number.
0xC0B4700E	ERR_ECSV4_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_PARAMETERIZATION_LEVEL Operation data is write-protected at parameterization level.
0xC0B4700F	ERR_ECSV4_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_OPERATION_LEVEL Operation data is write-protected at operation level.
0xC0B47010	ERR_ECSV4_SOE_SSC_OPDATA_PROCEDURE_COMMAND_ALREADY_ACTIVE Procedure command already active.
0xC0B47011	ERR_ECSV4_SOE_SSC_OPDATA_PROCEDURE_COMMAND_NOT_INTERRUPTIBLE Procedure command not interruptible.
0xC0B47012	ERR_ECSV4_SOE_SSC_OPDATA_PROCEDURE_COMMAND_NOT_EXECUTABLE_AT_THIS_TIME Procedure command at this time not executable (e.g. in this phase the procedure command cannot be activated).
0xC0B47013	ERR_ECSV4_SOE_SSC_OPDATA_PROCEDURE_COMMAND_NOT_EXECUTABLE_INVALID_PARAM Procedure command not executable (invalid or false parameters).
0xC0B48001	ERR_ECSV4_SOE_SSC_NO_DEFAULT_VALUE No default value.
0xC0B48002	ERR_ECSV4_SOE_SSC_DEFAULT_VALUE_TRANSMISSION_IS_TOO_SHORT Default value transmission is too short.
0xC0B48003	ERR_ECSV4_SOE_SSC_DEFAULT_VALUE_TRANSMISSION_IS_TOO_LONG Default value transmission is too long.
0xC0B48004	ERR_ECSV4_SOE_SSC_DEFAULT_VALUE_CANNOT_BE_CHANGED Default value cannot be changed (read only).

Table 34: EtherCAT Slave V4 SoE error codes

3.3.18 EtherCAT Master V4 LLD

Hexadecimal value	Definition and description
0xC0CC0001	ERR_ECMV4_LLD_TIMEOUT ESC Register access timeout.
0xC0CC0003	ERR_ECMV4_LLD_UNSUPPORTED_COMMAND LLD: Unsupported EtherCAT telegram command.
0xC0CC0004	ERR_ECMV4_LLD_DUPLICATE_FIXED_STATION_ADDRESS LLD: Duplicate fixed station address.
0xC0CC0005	ERR_ECMV4_LLD_SII_CHECKSUM_ERROR LLD: SII Checksum Error.
0xC0CC0006	ERR_ECMV4_LLD_SII_EEPROM_LOADING_ERROR LLD: SII EEPROM Loading Error.
0xC0CC0007	ERR_ECMV4_LLD_SII_MISSING_ERROR_ACK LLD: SII Missing Error Ack.
0xC0CC0008	ERR_ECMV4_LLD_STATE_CHANGE_FAILED LLD: ESM State Change failed.
0xC0CC0009	ERR_ECMV4_LLD_UNEXPECTED_AL_STATUS LLD: Unexpected ALSTATUS.
0xC0CC000A	ERR_ECMV4_LLD_UNEXPECTED_WKC LLD: Unexpected Working Count.
0xC0CC000B	ERR_ECMV4_LLD_MAILBOX_NOT_AVAILABLE LLD: Mailbox not available.
0xC0CC000C	ERR_ECMV4_LLD_MAILBOX_MESSAGE_TOO_LARGE LLD: Mailbox message too large.
0xC0CC000D	ERR_ECMV4_LLD_CONFIGURATION_IN_PROGRESS LLD: Configuration in progress.
0xC0CC000E	ERR_ECMV4_LLD_TOO_MANY_CYCLIC_FRAMES LLD: Too many cyclic frames.
0xC0CC000F	ERR_ECMV4_LLD_CYCLIC_FRAME_EXCEEDS_MTU LLD: SII Checksum Error.
0xC0CC0010	ERR_ECMV4_LLD_INVALID_CYCLIC_TELEGRAM_CONFIG LLD: Invalid cyclic telegram config.
0xC0CC0011	ERR_ECMV4_LLD_BUILDING_COPY_ROUTINES_FAILED LLD: Building copy routines failed.
0xC0CC0012	ERR_ECMV4_LLD_UNSUPPORTED_SLAVE_STATION_ADDRESS LLD: Unsupported slave station address.
0xC0CC0013	ERR_ECMV4_LLD_STATION_ADDRESS_NOT_ALLOWED LLD: Station address not allowed.
0xC0CC0014	ERR_ECMV4_LLD_INVALID_STD_TX_MBX_PHYS_OFFSET LLD: Invalid Std TxMbx PhysOffset.
0xC0CC0015	ERR_ECMV4_LLD_INVALID_STD_RX_MBX_PHYS_OFFSET LLD: Invalid Std RxMbx PhysOffset.
0xC0CC0016	ERR_ECMV4_LLD_INVALID_BOOT_TX_MBX_PHYS_OFFSET LLD: Invalid Boot TxMbx PhysOffset.
0xC0CC0017	ERR_ECMV4_LLD_INVALID_BOOT_RX_MBX_PHYS_OFFSET LLD: Invalid Boot RxMbx PhysOffset.
0xC0CC0018	ERR_ECMV4_LLD_INVALID_STD_TX_MBX_SM_NO LLD: Invalid Std TxMbx SyncManager number.

Hexadecimal value	Definition and description
0xC0CC0019	ERR_ECMV4_LLD_INVALID_STD_RX_MBX_SM_NO LLD: Invalid Std RxMbx SyncManager number.
0xC0CC001A	ERR_ECMV4_LLD_INVALID_BOOT_TX_MBX_SM_NO LLD: Invalid Boot TxMbx SyncManager number.
0xC0CC001B	ERR_ECMV4_LLD_INVALID_BOOT_RX_MBX_SM_NO LLD: Invalid Boot RxMbx SyncManager number.
0xC0CC001C	ERR_ECMV4_LLD_UNCONFIGURED_SLAVE_STATION_ADDRESS LLD: Unconfigured slave station address.
0xC0CC001D	ERR_ECMV4_LLD_WRONG_SLAVE_STATE LLD: Wrong slave state.
0xC0CC001E	ERR_ECMV4_LLD_CYCLE_TIME_TOO_SMALL LLD: Cycle time too short.
0xC0CC001F	ERR_ECMV4_LLD_REPETITION_COUNT_NOT_SUPPORTED LLD: Repetition count not supported.
0xC0CC0020	ERR_ECMV4_LLD_INVALID_CALLBACK_TYPE LLD: Invalid callback type.
0xC0CC0021	ERR_ECMV4_LLD_INVALID_CYCLE_MULTIPLIER LLD: Invalid cycle multiplier.
0xC0CC0022	ERR_ECMV4_LLD_UNKNOWN_ERROR LLD: Unknown error.
0xC0CC0023	ERR_ECMV4_LLD_INVALID_REG_LENGTH LLD: Invalid register length.
0xC0CC0024	ERR_ECMV4_LLD_INVALID_PARAMETER LLD: Invalid parameter.
0xC0CC0025	ERR_ECMV4_LLD_IRQ_NOT_AVAILABLE LLD: IRQ not available.
0xC0CC0026	ERR_ECMV4_LLD_IOMEM_IRQ_NOT_AVAILABLE LLD: I/O Mem or IRQ not available.
0xC0CC0027	ERR_ECMV4_LLD_HW_INIT_FAILED LLD: Hardware init failed.
0xC0CC0028	ERR_ECMV4_LLD_MUTEX_CREATION_FAILED LLD: Mutex creation failed.
0xC0CC0029	ERR_ECMV4_LLD_DC_RX_LATCH_COMMAND_REQUIRED_FOR_DC LLD: DC Rx-Latch command required for DC.
0xC0CC002A	ERR_ECMV4_LLD_TX_PROCESS_IMAGE_EXCEEDED LLD: Tx process image exceeded.
0xC0CC002B	ERR_ECMV4_LLD_RX_PROCESS_IMAGE_EXCEEDED LLD: Rx process image exceeded.
0xC0CC002C	ERR_ECMV4_LLD_MBX_STATE_IMAGE_EXCEEDED LLD: MbxState image exceeded.
0xC0CC002D	ERR_ECMV4_LLD_RESULT_DUPLICATE_BWR_RX_LATCH_CMD LLD: Duplicate BWR RX Latch Cmd.
0xC0CC002E	ERR_ECMV4_LLD_RESULT_DUPLICATE_EXT_SYSTIME_CONTROL_CMD LLD: Duplicate ExtSync Control Cmd.
0xC0CC002F	ERR_ECMV4_LLD_CC_PROCESS_IMAGE_EXCEEDED LLD: Cross communication process image exceeded.
0xC0CC0030	ERR_ECMV4_LLD_SII_TIMEOUT LLD: SII Timeout.

Hexadecimal value	Definition and description
0xC0CC0031	ERR_ECMV4_LLD_BUS_NOT_ENABLED LLD: Bus not enabled.

Table 35: EtherCAT Master V4 LLD error codes

3.3.19 EtherCAT Master V4 EMC

Hexadecimal value	Definition and description
0x40CD0017	ERR_ECMV4 EMC_BUS_IS_OFF Bus is off.
0xC0CD0001	ERR_ECMV4 EMC_REQUEST_DESTINATION_PROBLEM Request destination problem.
0xC0CD0002	ERR_ECMV4 EMC_INVALID_SLAVE_STATION_ADDRESS Invalid slave station address.
0xC0CD0003	ERR_ECMV4 EMC_CONFIGURATION_BUFFER_IS_OPEN Configuration Buffer is open.
0xC0CD0004	ERR_ECMV4 EMC_WRONG_STATE_FOR_RECONFIGURATION Wrong state for reconfiguration.
0xC0CD0005	ERR_ECMV4 EMC_CONFIGURATION_BUFFER_IS_NOT_OPEN Configuration Buffer is not open.
0xC0CD0006	ERR_ECMV4 EMC_SLAVE_STATION_ADDRESS_ALREADY_IN_CONFIG Slave station address is already in configuration.
0xC0CD0007	ERR_ECMV4 EMC_INVALID_STD_MBX_PARAMETERS Invalid Std Mbx parameters.
0xC0CD0008	ERR_ECMV4 EMC_INVALID_BOOT_MBX_PARAMETERS Invalid Boot Mbx parameters.
0xC0CD0009	ERR_ECMV4 EMC_STD_MBX_SM_ARE_OVERLAPPING Std Mbx SyncManagers are overlapping.
0xC0CD000A	ERR_ECMV4 EMC_BOOT_MBX_SM_ARE_OVERLAPPING Boot Mbx SyncManagers are overlapping.
0xC0CD000B	ERR_ECMV4 EMC_SM_PARAMS_ALREADY_ADDED SyncManager params already added.
0xC0CD000C	ERR_ECMV4 EMC_INVALID_SM_NUMBER Invalid SyncManager number.
0xC0CD000D	ERR_ECMV4 EMC_FMMU_PARAMS_ALREADY_ADDED FMMU params already added.
0xC0CD000E	ERR_ECMV4 EMC_INVALID_FMMU_NUMBER Invalid FMMU number.
0xC0CD000F	ERR_ECMV4 EMC_INVALID_MIN_STATE Invalid Min State.
0xC0CD0010	ERR_ECMV4 EMC_CYCLE_FRAME_AMOUNT_EXCEEDED Cycle frame amount exceeded.
0xC0CD0011	ERR_ECMV4 EMC_INVALID_CYCLIC_FRAME_IN_CONFIGURATION Invalid cyclic frame in configuration.
0xC0CD0012	ERR_ECMV4 EMC_CYCLE_FRAME_INDEX_NOT_VALID Cycle frame index not valid.
0xC0CD0013	ERR_ECMV4 EMC_INVALID_TELEGRAM_LENGTH Invalid telegram length.
0xC0CD0014	ERR_ECMV4 EMC_CYCLE_FRAME_LENGTH_EXCEEDED Cycle frame length exceeded.

Hexadecimal value	Definition and description
0xC0CD0015	ERR_ECMV4_EMC_AMOUNT_OF_TELEGRAMS_IN_CYCLIC_FRAMES_EXCEEDED Amount of telegrams in cyclic frame exceeded.
0xC0CD0016	ERR_ECMV4_EMC_STATE_CHANGE_IN_PROGRESS State change in progress.
0xC0CD0018	ERR_ECMV4_EMC_TOO_MANY_SLAVES_GIVEN Too many slaves given.
0xC0CD0019	ERR_ECMV4_EMC_DUPLICATE_STATION_ADDRESS_IN_LIST Duplicate station address in list.
0xC0CD001B	ERR_ECMV4_EMC_CONFIGURATION_DATA_INCORRECT Configuration data incorrect.
0xC0CD001C	ERR_ECMV4_EMC_VENDORID_MISMATCH Vendor Id mismatch.
0xC0CD001D	ERR_ECMV4_EMC_PRODUCTCODE_MISMATCH Product Code mismatch.
0xC0CD001E	ERR_ECMV4_EMC_REVISIONNO_MISMATCH Revision Number mismatch.
0xC0CD001F	ERR_ECMV4_EMC_SERIALNO_MISMATCH Serial Number mismatch.
0xC0CD0020	ERR_ECMV4_EMC_LOST_CONNECTION Lost Connection.
0xC0CD0021	ERR_ECMV4_EMC_UNKNOWN_STATE_CHANGE_HAPPENED Unknown state change happened.
0xC0CD0022	ERR_ECMV4_EMC_UNEXPECTED_STATE_CHANGE_HAPPENED Unexpected state change happened.
0xC0CD0023	ERR_ECMV4_EMC_SLAVE_CHANGED_STATE Slave changed state.
0xC0CD0024	ERR_ECMV4_EMC_FILE_PROVIDER_INIT_FAILED File Provider init failed.
0xC0CD0026	ERR_ECMV4_EMC_DC_RX_TIMESTAMP_ERROR DC Rx Timestamp Error.
0xC0CD0027	ERR_ECMV4_EMC_DC_MASTER_PORT_TIMESTAMP_ERROR DC Master Port Timestamp Error.
0xC0CD0028	ERR_ECMV4_EMC_INVALID_SLAVE_INDEX Invalid slave index.
0xC0CD0029	ERR_ECMV4_EMC_WRONG_MASTER_STATE Wrong master state.
0xC0CD002A	ERR_ECMV4_EMC_INVALID_TRANSFER_ID Invalid transfer id.
0xC0CD002B	ERR_ECMV4_EMC_INVALID_SEGMENTATION Invalid segmentation.
0xC0CD002C	ERR_ECMV4_EMC_EOE_IP_PARAMS_ALREADY_ADDED EoE IP Parameter already added.
0xC0CD002D	ERR_ECMV4_EMC_EOE_SUPPORT_NOT_AVAILABLE EoE Support not available.
0xC0CD002E	ERR_ECMV4_EMC_END_CONFIGURATION_IN_PROGRESS End configuration in progress.
0xC0CD002F	ERR_ECMV4_EMC_WRONG_STATE_FOR_RECONFIGURATION_BUS_IS_ON Wrong state for reconfiguration: Bus Is On.

Hexadecimal value	Definition and description
0xC0CD0030	ERR_ECMV4_EMC_WRONG_STATE_FOR_RECONFIGURATION_BUS_SCAN_ACTIVE Wrong state for reconfiguration: Bus Scan is active.
0xC0CD0031	ERR_ECMV4_EMC_WRONG_STATE_FOR_RECONFIGURATION_IN_PROGRESS_TO_BUSOFF Wrong state for reconfiguration: Bus Off in progress.
0xC0CD0032	ERR_ECMV4_EMC_NO_DIAG_ENTRY_AVAILABLE No diag entry available.
0xC0CD0033	ERR_ECMV4_EMC_SLAVE_SYNC_PARAMS_NOT_POSSIBLE_WITHOUT_WORKING_DC Slave Sync parameters are not possible without working DC.
0xC0CD0034	ERR_ECMV4_EMC_MANDATORY_SLAVE_MISSING Mandatory slave missing.
0xC0CD0035	ERR_ECMV4_EMC_WRONG_SLAVE_AT_POSITION Wrong slave at position.
0xC0CD0036	ERR_ECMV4_EMC_NO_DC_REF_CLOCK No DC Reference clock available.
0xC0CD0038	ERR_ECMV4_EMC_INVALID_DC_REF_CLOCK Invalid DC reference clock.
0xC0CD0039	ERR_ECMV4_EMC_COE_SUPPORT_NOT_AVAILABLE CoE Support not available.
0xC0CD003A	ERR_ECMV4_EMC_SOE_SUPPORT_NOT_AVAILABLE SoE Support not available.
0xC0CD003B	ERR_ECMV4_EMC_FOE_SUPPORT_NOT_AVAILABLE FoE Support not available.
0xC0CD003C	ERR_ECMV4_EMC_AOE_SUPPORT_NOT_AVAILABLE AoE Support not available.
0x40CD003E	ERR_ECMV4_EMC_RECONNECTED Slave reconnected.
0x80CD003F	ERR_ECMV4_EMC_DC_STOPPED DC ARMW/FRMW has been stopped.
0xC0CD0040	ERR_ECMV4_EMC_STOPPED_DUE_SYNC_ERROR Stopped due sync error.
0xC0CD0041	ERR_ECMV4_EMC_MANDATORY_SLAVE_NOT_IN_OP Mandatory slave is not in OP.
0xC0CD0042	ERR_ECMV4_EMC_BUS_CYCLE_TIME_NOT_POSSIBLE Bus cycle time not possible.
0xC0CD0043	ERR_ECMV4_EMC_TOPOLOGY_ERROR_DETECTED Topology error detected.
0xC0CD0044	ERR_ECMV4_EMC_TOPOLOGY_MISMATCH_DETECTED Topology mismatch detected.
0xC0CD0045	ERR_ECMV4_EMC_NO_VALID_TOPOLOGY_CONFIGURATION_DATA No valid topology configuration data.
0xC0CD0046	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT0 Unexpected slave at port 0.
0xC0CD0047	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT1 Unexpected slave at port 1.
0xC0CD0048	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT2 Unexpected slave at port 2.

Hexadecimal value	Definition and description
0xC0CD0049	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT3 Unexpected slave at port 3.
0xC0CD004A	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_CONNECTED Unexpected slave connected.
0xC0CD004B	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT0 Missing slave at port 0.
0xC0CD004C	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT1 Missing slave at port 1.
0xC0CD004D	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT2 Missing slave at port 2.
0xC0CD004E	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT3 Missing slave at port 3.
0xC0CD004F	ERR_ECMV4_EMC_SLAVE_NOT_CHECKED Slave not checked.
0xC0CD0050	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT0_1 Unexpected slaves at ports 0 and 1.
0xC0CD0051	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT0_2 Unexpected slaves at ports 0 and 2.
0xC0CD0052	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT0_3 Unexpected slaves at ports 0 and 3.
0xC0CD0053	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT1_2 Unexpected slaves at ports 1 and 2.
0xC0CD0054	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT1_3 Unexpected slaves at ports 1 and 3.
0xC0CD0055	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT2_3 Unexpected slaves at ports 2 and 3.
0xC0CD0056	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT0_1_2 Unexpected slaves at ports 0, 1 and 2.
0xC0CD0057	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT0_1_3 Unexpected slaves at ports 0, 1 and 3.
0xC0CD0058	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT0_2_3 Unexpected slaves at ports 0, 2 and 3.
0xC0CD0059	ERR_ECMV4_EMC_UNEXPECTED_SLAVE_AT_PORT1_2_3 Unexpected slaves at ports 1, 2 and 3.
0xC0CD005A	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT0_1 Missing slaves at ports 0 and 1.
0xC0CD005B	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT0_2 Missing slaves at ports 0 and 2.
0xC0CD005C	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT0_3 Missing slaves at ports 0 and 3.
0xC0CD005D	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT1_2 Missing slaves at ports 1 and 2.
0xC0CD005E	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT1_3 Missing slaves at ports 1 and 3.
0xC0CD005F	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT2_3 Missing slaves at ports 2 and 3.
0xC0CD0060	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT0_1_2 Missing slaves at ports 0, 1 and 2.

Hexadecimal value	Definition and description
0xC0CD0061	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT0_1_3 Missing slaves at ports 0, 1 and 3.
0xC0CD0062	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT0_2_3 Missing slaves at ports 0, 2 and 3.
0xC0CD0063	ERR_ECMV4_EMC_MISSING_SLAVE_AT_PORT1_2_3 Missing slaves at ports 1, 2 and 3.
0xC0CD0065	ERR_ECMV4_EMC_HC_PARTICIPANT_NOT_ALLOWED_IN_MANDATORY_SLAVE_LIST Hot Connect participant is not allowed in mandatory slave list.
0xC0CD0066	ERR_ECMV4_EMC_HC_PARTICIPANT_NOT_ALLOWED_IN_MULTIPLE_HC_GROUPS Hot Connect participant is not allowed in multiple Hot Connect groups.
0xC0CD0067	ERR_ECMV4_EMC_HC_GROUP_HEAD_IS_NOT_LISTED_FOR_HC_DETECTION Hot Connect Group Head is not listed for Hot Connect detection.
0xC0CD0068	ERR_ECMV4_EMC_DC_SETUP_CALCULATION_ERROR DC Setup calculation error.
0xC0CD0069	ERR_ECMV4_EMC_NON_DC_SLAVE_MORE_THAN_2_PORTS_IN_DC_SETUP A Slave without DC support has more than 2 ports in DC setup.
0xC0CD006A	ERR_ECMV4_EMC_HC_GROUP_CONTAINS_NOT_CONFIGURED_SLAVE Hot Connect Group contains not configured slave.
0xC0CD006B	ERR_ECMV4_EMC_ALCONTROL_TIMEOUT ALControl Timeout.
0xC0CD006C	ERR_ECMV4_EMC_DC_MEASUREMENT_ERROR DC Measurement Error.
0xC0CD006D	ERR_ECMV4_EMC_RX_DESTINATION_EXCEEDS_RX_IMAGE_SIZE Rx Process data destination exceeds Rx Image Size.
0xC0CD006E	ERR_ECMV4_EMC_TX_SOURCE_EXCEEDS_TX_IMAGE_SIZE Tx Process data source exceeds Tx image Size.
0xC0CD006F	ERR_ECMV4_EMC_WCSTATEBIT_EXCEEDS_RX_IMAGE_SIZE WcState bit exceeds Rx Image Size.
0xC0CD0070	ERR_ECMV4_EMC_WKC_MAPPING_EXCEEDS_RX_IMAGE_SIZE WKC mapping exceeds Rx Image Size.
0xC0CD0071	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT0 DC Rx-Latch Error at Port 0.
0xC0CD0072	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT1 DC Rx-Latch Error at Port 1.
0xC0CD0073	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT2 DC Rx-Latch Error at Port 2.
0xC0CD0074	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT3 DC Rx-Latch Error at Port 3.
0xC0CD0075	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT0_1 DC Rx-Latch Error at Ports 0 and 1.
0xC0CD0076	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT0_2 DC Rx-Latch Error at Ports 0 and 2.
0xC0CD0077	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT0_3 DC Rx-Latch Error at Ports 0 and 3.
0xC0CD0078	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT1_2 DC Rx-Latch Error at Ports 1 and 2.
0xC0CD0079	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT1_3 DC Rx-Latch Error at Ports 1 and 3.

Hexadecimal value	Definition and description
0xC0CD007A	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT2_3 DC Rx-Latch Error at Ports 2 and 3.
0xC0CD007B	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT0_1_2 DC Rx-Latch Error at Ports 0, 1 and 2.
0xC0CD007C	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT0_1_3 DC Rx-Latch Error at Ports 0, 1 and 3.
0xC0CD007D	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT0_2_3 DC Rx-Latch Error at Ports 0, 2 and 3.
0xC0CD007E	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT1_2_3 DC Rx-Latch Error at Ports 1, 2 and 3.
0xC0CD007F	ERR_ECMV4_EMC_DC_RX_LATCH_ERROR_AT_PORT0_1_2_3 DC Rx-Latch Error at Ports 0, 1, 2 and 3.
0xC0CD0080	ERR_ECMV4_EMC_ASSIGN_PDO_IS_MISSING_PDO_MAPPING AssignPDO is missing PDO-Mapping.
0xC0CD0081	ERR_ECMV4_EMC_EXT_SYNC_OBJ_IS_NOT_MAPPED_TO_SAME_SM ExtSync object is not mapped to same SyncManager.
0xC0CD0082	ERR_ECMV4_EMC_DUPLICATE_EXT_SYNC_OBJ Duplicate ExtSync object.
0xC0CD0083	ERR_ECMV4_EMC_UNSUPPORTED_EXT_SYNC_OBJ_RECORD Unsupported ExtSync object record.
0xC0CD0084	ERR_ECMV4_EMC_UNSUPPORTED_MAPPING_OF_EXT_SYNC_OBJ_RECORD Unsupported mapping of ExtSync object.
0xC0CD0085	ERR_ECMV4_EMC_MISSING_MAPPING_OF_EXT_SYNC_OBJ_RECORD Missing mapping of ExtSync object.
0xC0CD0086	ERR_ECMV4_EMC_EXT_SYNC_OBJ_IS_NOT_MAPPED_TO_SAME_FMMU ExtSync object is not mapped to same FMMU.
0xC0CD0087	ERR_ECMV4_EMC_EXT_SYNC_OBJ_INTERNAL_ERROR Internal error encountered with ExtSync object.
0xC0CD0088	ERR_ECMV4_EMC_EXT_SYNC_OBJ_IS_NOT_MAPPED_IN_ONE_CYCLIC_CMD ExtSync object is not mapped in one cyclic command.
0xC0CD0089	ERR_ECMV4_EMC_UNSUPPORTED_FMMU_MAPPING_OF_EXT_SYNC_OBJ_RECORD Unsupported FMMU mapping of Ext Sync object.
0xC0CD008A	ERR_ECMV4_EMC_EXT_SYNC_REQUIRES_ADJUST_EXT_SYNC_CMD ExtSync requires Adjust Ext Sync Cmd.
0xC0CD008B	ERR_ECMV4_EMC_EXT_SYNC_CMD_DOES_NOT_MATCH_XRMW_CMD ExtSync command does not match xRMW command.
0xC0CD008C	ERR_ECMV4_EMC_EXT_SYNC_REQUIRES_XRMW_CMD ExtSync command requires xRMW command.
0xC0CD008D	ERR_ECMV4_EMC_EXPLICIT_DEV_IDENT_FAILED_ALSTATUS Explicit Device Identification failed (ALSTATUS).
0xC0CD008E	ERR_ECMV4_EMC_EXPLICIT_DEV_IDENT_FAILED_REG Explicit Device Identification failed (register).
0xC0CD008F	ERR_ECMV4_EMC_COPY_INFOS_FOUND_AT_UNMAPPED_RECEIVE_DATA CopyInfos found at unmapped receive data.
0xC0CD0090	ERR_ECMV4_EMC_COPY_INFO_RECEIVE_DATA_AREA_NOT_MATCHING CopyInfo receive data area is not matching.
0xC0CD0091	ERR_ECMV4_EMC_SDO_UPLOAD_TOO_LONG SDO Upload data is too long.

Hexadecimal value	Definition and description
0xC0CD0092	ERR_ECMV4_EMC_SDO_UPLOAD_TOO_SHORT SDO Upload data is too short.
0xC0CD0093	ERR_ECMV4_EMC_SDO_UPLOAD_COMPARE_DOES_NOT_MATCH_EXPECTATION SDO Upload compare does not match expectation.
0xC0CD0094	ERR_ECMV4_EMC_SOE_READ_TOO_LONG SoE Read data too long.
0xC0CD0095	ERR_ECMV4_EMC_SOE_UPLOAD_TOO_SHORT SoE Read data too short.
0xC0CD0096	ERR_ECMV4_EMC_SOE_READ_COMPARE_DOES_NOT_MATCH_EXPECTATION SoE Read compare does not match expectation.
0xC0CD0097	ERR_ECMV4_EMC_REG_INITCMD_COMPARE_DOES_NOT_MATCH_EXPECTATION Register InitCmd compare does not match expectation.
0xC0CD0098	ERR_ECMV4_EMC_REDUNDANCY_PORT_ONLY_POSSIBLE_ONCE Redundancy port only possible once.
0xC0CD0099	ERR_ECMV4_EMC_STARTUP_SCAN_SII_FAILED Startup scan of SII failed.
0xC0CD009A	ERR_ECMV4_EMC_STARTUP_VERIFY_SII_FAILED Startup verify of SII failed.
0xC0CD009B	ERR_ECMV4_EMC_MAIN_PORT_NOT_CONNECTED Main port not connected.
0xC0CD009C	ERR_ECMV4_EMC_BUS_SCAN_TOO_MANY_SLAVES Bus Scan: Too many slaves.
0xC0CD009D	ERR_ECMV4_EMC_BUS_SCAN_SPLIT_RING_NOT_SUPPORTED Bus Scan: Split ring not supported.
0xC0CD009E	ERR_ECMV4_EMC_BUS_SHUTDOWN Bus Shutdown.
0xC0CD009F	ERR_ECMV4_EMC_MASTER_ADDRESS_NOT_ALLOWED_AS_STATION_ADDRESS Master address not allowed as station address.
0xC0CD00A0	ERR_ECMV4_EMC_FIRST_STATION_HAS_INVALID_PORT_0 First Station has invalid Port 0.
0xC0CD00A1	ERR_ECMV4_EMC_STATION_HAS_INVALID_PORT Station has invalid port.
0xC0CD00A2	ERR_ECMV4_EMC_STATION_HAS_NOT_LISTED_STATION_ADDRESS_IN_PORT Station has not listed station address in port.
0xC0CD00A3	ERR_ECMV4_EMC_PORT_CONNECTION_BETWEEN_STATIONS_DOES_NOT_MATCH Port connection between stations does not match.
0xC0CD00A4	ERR_ECMV4_EMC_STATION_HAS_ALREADY_USED_STATION_ADDRESS_IN_PORT Station has already used station address in port.
0xC0CD00A5	ERR_ECMV4_EMC_INVALID_SM_PHYS_START_ADDRESS Invalid SyncMan physical start address.
0xC0CD00A6	ERR_ECMV4_EMC_DC_TOPOLOGY_ON_REDUNDANCY_PORT_NOT_SUPPORTED DC Topology on redundancy port not supported.
0xC0CD00A7	ERR_ECMV4_EMC_SM_ASSIGN_PDO_ALREADY_ADDED SM-AssignPDO already added.
0xC0CD00A8	ERR_ECMV4_EMC_DC_BASE_SYNC_OFFSET_PERCENTAGE_OUT_OF_RANGE DC Base Sync Offset out of range.

Table 36: EtherCAT Master V4 EMC error codes

3.3.20 EtherCAT Master V4 AoE

Hexadecimal value	Definition and description
0xC0CE0006	ERR_ECMV4_AOE_TARGET_PORT_NOT_FOUND AoE: Target Port not found.
0xC0CE0007	ERR_ECMV4_AOE_TARGET_MACHINE_NOT_FOUND AoE: Target Machine not found.
0xC0CE0701	ERR_ECMV4_AOE_SERVICE_NOT_SUPPORTED AoE: Service not supported.
0xC0CE0702	ERR_ECMV4_AOE_INVALID_INDEX_GROUP AoE: Invalid IndexGroup.
0xC0CE0703	ERR_ECMV4_AOE_INVALID_INDEX_OFFSET AoE: Invalid IndexOffset.
0xC0CE0704	ERR_ECMV4_AOE_INVALID_ACCESS AoE: Invalid access.
0xC0CE0705	ERR_ECMV4_AOE_INVALID_SIZE AoE: Invalid size.
0xC0CE0706	ERR_ECMV4_AOE_INVALID_DATA AoE: Invalid data.
0xC0CE0707	ERR_ECMV4_AOE_NOTREADY AoE: Not ready.
0xC0CE0708	ERR_ECMV4_AOE_BUSY AoE: Busy.
0xC0CE070C	ERR_ECMV4_AOE_NOT_FOUND AoE: Not Found.
0xC0CE070E	ERR_ECMV4_AOE_INCOMPATIBLE AoE: Incompatible.
0xC0CE0712	ERR_ECMV4_AOE_WRONG_SLAVE_STATE AoE: Wrong slave state.
0xC0CE0718	ERR_ECMV4_AOE_NOTINIT AoE: Not initialized.
0xC0CE0719	ERR_ECMV4_AOE_DEVICE_TIMEOUT AoE: Device Timeout.
0xC0CEF001	ERR_ECMV4_AOE_SHUTTING_DOWN AoE: Shutting down.
0xC0CEF002	ERR_ECMV4_AOE_INITIALIZATION_ERROR AoE: Initialization Error.
0xC0CEF003	ERR_ECMV4_AOE_INVALID_TRANSFER_HANDLE AoE: Invalid transfer handle.
0xC0CEF004	ERR_ECMV4_AOE_INVALID_TRANSFER_STATE AoE: Invalid transfer state.
0xC0CEF005	ERR_ECMV4_AOE_PROTOCOL_TIMEOUT AoE: Protocol Timeout.
0xC0CEF006	ERR_ECMV4_AOE_TRANSFER_SEGMENT_TOO_LONG AoE: Transfer Segment too long.
0xC0CEF007	ERR_ECMV4_AOE_NO_MAILBOX_AVAILABLE AoE: No mailbox available.
0xC0CEF008	ERR_ECMV4_AOE_RECONFIGURATION_IN_PROGRESS AoE: Reconfiguration in progress.

Hexadecimal value	Definition and description
0xC0CEF009	ERR_ECMV4_AOE_INVALID_SLAVE_STATION_ADDRESS AoE: Invalid slave station address.
0xC0CEF00A	ERR_ECMV4_AOE_TRANSFER_ABORTED AoE: Transfer aborted.
0xC0CEF00B	ERR_ECMV4_AOE_REQUEST_DESTINATION_PROBLEM AoE: Request destination problem.
0xC0CEF00C	ERR_ECMV4_AOE_DUPLICATE_NETID AoE: Duplicate Net ID.
0xC0CEF00D	ERR_ECMV4_AOE_INVALID_NETID_HANDLE AoE: Invalid Net ID handle.
0xC0CEF00E	ERR_ECMV4_AOE_CONFIGURATION_IS_NOT_OPEN AoE: Configuration is not open.
0xC0CEF00F	ERR_ECMV4_AOE_CONFIGURATION_IS_ALREADY_OPEN AoE: Configuration is already open.
0xC0CEF010	ERR_ECMV4_AOE_CLIENT_INVALID_TRANSFER_HANDLE AoE Client: Invalid transfer handle.
0xC0CEF011	ERR_ECMV4_AOE_CLIENT_INVALID_TRANSFER_STATE AoE Client: Invalid transfer state.
0xC0CEF012	ERR_ECMV4_AOE_CLIENT_TRANSFER_ABORTED AoE Client: Transfer aborted.
0xC0CEF013	ERR_ECMV4_AOE_CLIENT_PROTOCOL_TIMEOUT AoE Client: Protocol Timeout.
0xC0CEF014	ERR_ECMV4_AOE_UNKNOWN_RETURN_CODE AoE: Unknown return code.
0xC0CEF015	ERR_ECMV4_AOE_CLIENT_UNKNOWN_AOE_ERROR AoE Client: Unknown AoE Error.
0xC0CEF016	ERR_ECMV4_AOE_CLIENT_TRANSFER_SEGMENT_TOO_LONG AoE Client: Transfer segment too long.
0xC0CEF017	ERR_ECMV4_AOE_CLIENT_IS_INITIALIZING AoE Client: Is initializing.
0xC0CEF018	ERR_ECMV4_AOE_CLIENT_REQUEST_DESTINATION_PROBLEM AoE Client: Request Destination Problem.
0xC0CEF019	ERR_ECMV4_AOE_CLIENT_MAX_SEGMENT_BYTES_TOO_LOW_FOR_FIRST_SEGMENT AoE Client: Max segment bytes too low for first segment.

Table 37: EtherCAT Master V4 AoE error codes

3.3.21 EtherCAT Master V4 CoE

Hexadecimal value	Definition and description
0xC0CF0001	ERR_ECMV4_COE_INITIALIZATION_ERROR CoE Initialization Error.
0xC0CF0002	ERR_ECMV4_COE_INVALID_TRANSFER_HANDLE CoE Invalid transfer handle.
0xC0CF0003	ERR_ECMV4_COE_NO_MAILBOX_AVAILABLE CoE Mailbox not available.
0xC0CF0004	ERR_ECMV4_COE_INVALID_TRANSFER_STATE CoE Invalid transfer state.
0xC0CF0005	ERR_ECMV4_COE_TRANSFER_SEGMENT_TOO_LONG CoE Transfer-Segment too long.
0xC0CF0006	ERR_ECMV4_COE_SHUTTING_DOWN CoE Shutting Down.
0xC0CF0007	ERR_ECMV4_COE_MAX_TOTAL_BYTES_SMALLER_THAN_ACTUAL_TOTAL_BYTES CoE Max Total Bytes is smaller than Actual Total Bytes.
0xC0CF0008	ERR_ECMV4_COE_MAILBOX_TRANSMIT_FAILED CoE Mailbox transmit failed.
0xC0CF0009	ERR_ECMV4_COE_TRANSFER_ABORTED CoE Transfer aborted.
0xC0CF000A	ERR_ECMV4_COE_SDOINFO_INITIALIZATION_ERROR CoE SDOINFO Initialization error.
0xC0CF000B	ERR_ECMV4_COE_WRONG_SLAVE_STATE CoE: Wrong slave state.
0xC0CF000C	ERR_ECMV4_COE_PROTOCOL_ERROR CoE Protocol Error.
0xC0CF000D	ERR_ECMV4_NO_AOE_AVAILABLE CoE: No AoE available.
0xC0CF000E	ERR_ECMV4_COE_REQUEST_DESTINATION_PROBLEM CoE: Request destination problem.
0xC0CF000F	ERR_ECMV4_COE_INVALID_SLAVE_STATION_ADDRESS CoE: Invalid slave station address.
0xC0CF8000	ERR_ECMV4_COE_ABORTCODE_TOGGLE_BIT_NOT_ALTERNATED Toggle bit was not changed.
0xC0CF8001	ERR_ECMV4_COE_ABORTCODE_COMMAND_SPECIFIER_NOT_VALID Client/Server command specifier not valid or unknown.
0xC0CF8002	ERR_ECMV4_COE_ABORTCODE_PROTOCOL_TIMEOUT SDO protocol timeout.
0xC0CF8003	ERR_ECMV4_COE_ABORTCODE_OUT_OF_MEMORY Out of memory.
0xC0CF8004	ERR_ECMV4_COE_ABORTCODE_UNSUPPORTED_ACCESS Unsupported access to an object.
0xC0CF8005	ERR_ECMV4_COE_ABORTCODE_OBJECT_IS_WRITE_ONLY Attempt to read a write only object.
0xC0CF8006	ERR_ECMV4_COE_ABORTCODE_OBJECT_IS_READ_ONLY Attempt to write to a read only object.
0xC0CF8007	ERR_ECMV4_COE_ABORTCODE_SUBINDEX_CANNOT_BE_WRITTEN_SIO_NZ Subindex cannot be written, Subindex 0 must be 0 for write access.

Hexadecimal value	Definition and description
0xC0CF8008	ERR_ECMV4_COE_ABORTCODE_COMPLETE_ACCESS_NOT_SUPPORTED Complete Access not supported.
0xC0CF8009	ERR_ECMV4_COE_ABORTCODE_OBJECT_LENGTH_EXCEEDS_MAILBOX_SIZE Object length exceeds mailbox size.
0xC0CF800A	ERR_ECMV4_COE_ABORTCODE_OBJECT_MAPPED_TO_RXPDO_NO_WRITE Object mapped to RxPDO. SDO Download blocked.
0xC0CF800B	ERR_ECMV4_COE_ABORTCODE_OBJECT_DOES_NOT_EXIST The object does not exist in the object dictionary.
0xC0CF800C	ERR_ECMV4_COE_ABORTCODE_OBJECT_CANNOT_BE_PDO_MAPPED The object cannot be mapped into the PDO.
0xC0CF800D	ERR_ECMV4_COE_ABORTCODE_PDO_LENGTH_WOULD_EXCEED The number and length of the objects to be mapped would exceed the PDO length.
0xC0CF800E	ERR_ECMV4_COE_ABORTCODE_GEN_PARAM_INCOMPATIBILITY General parameter incompatibility reason.
0xC0CF800F	ERR_ECMV4_COE_ABORTCODE_ACCESS_FAILED_DUE_TO_HW_ERROR Access failed due to a hardware error.
0xC0CF8010	ERR_ECMV4_COE_ABORTCODE_DATATYPE_DOES_NOT_MATCH Data type does not match, length of service parameter does not match.
0xC0CF8011	ERR_ECMV4_COE_ABORTCODE_DATATYPE_LENGTH_TOO_LONG Data type does not match, service parameter too long.
0xC0CF8012	ERR_ECMV4_COE_ABORTCODE_DATATYPE_LENGTH_TOO_SHORT Data type does not match, service parameter too short.
0xC0CF8013	ERR_ECMV4_COE_ABORTCODE_SUBINDEX_DOES_NOT_EXIST Subindex does not exist.
0xC0CF8014	ERR_ECMV4_COE_ABORTCODE_RANGE_OF_PARAMETER_EXCEEDED Value range of parameter exceeded (only for write access).
0xC0CF8015	ERR_ECMV4_COE_ABORTCODE_VALUE_OF_PARAM_WRITTEN_TOO_HIGH Value of parameter written too high.
0xC0CF8016	ERR_ECMV4_COE_ABORTCODE_VALUE_OF_PARAM_WRITTEN_TOO_LOW Value of parameter written too low.
0xC0CF8017	ERR_ECMV4_COE_ABORTCODE_MIN_VALUE_IS_LESS_THAN_MAX_VALUE Maximum value is less than minimum value.
0xC0CF8018	ERR_ECMV4_COE_ABORTCODE_GENERAL_ERROR General error.
0xC0CF8019	ERR_ECMV4_COE_ABORTCODE_NO_TRANSFER_TO_APP Data cannot be transferred to or stored in the application.
0xC0CF801A	ERR_ECMV4_COE_ABORTCODE_LOCAL_CONTROL Data cannot be transferred to or stored in the application because of local control.
0xC0CF801B	ERR_ECMV4_COE_ABORTCODE_NO_TRANSFER_DUE_TO_CURRENT_STATE Data cannot be transferred to or stored in the application because of the present device state.
0xC0CF801C	ERR_ECMV4_COE_ABORTCODE_NO_OBJECT_DICTIONARY_PRESENT Object dictionary dynamic generation fails or no object dictionary is present.
0xC0CF801D	ERR_ECMV4_COE_ABORTCODE_UNKNOWN_ABORT_CODE Unknown SDO abort code.
0xC0CF801E	ERR_ECMV4_COE_ABORTCODE_GEN_INTERNAL_INCOMPAT General internal incompatibility in the device.

Table 38: EtherCAT Master V4 CoE error codes

3.3.22 EtherCAT Master V4 EoE

Hexadecimal value	Definition and description
0xC0D00001	ERR_ECMV4_EOE_INVALID_MAC_ADDRESS EoE: Invalid MAC address.
0xC0D00002	ERR_ECMV4_EOE_INVALID_CALLBACK_TYPE EoE: Invalid callback type.
0xC0D00003	ERR_ECMV4_EOE_DESTINATION_UNREACHABLE EoE: Destination unreachable.
0xC0D00004	ERR_ECMV4_EOE_INVALID_EOE_RESPONSE EoE: Invalid EoE Response.
0xC0D00005	ERR_ECMV4_EOE_UNKNOWN_ERROR EoE: Unknown Error.
0xC0D00006	ERR_ECMV4_EOE_UNSPECIFIED_ERROR EoE: Unspecified error.
0xC0D00007	ERR_ECMV4_EOE_UNSUPPORTED_FRAME_TYPE EoE: Unsupported frame type.
0xC0D00008	ERR_ECMV4_EOE_NO_IP_SUPPORT EoE: No IP support.
0xC0D00009	ERR_ECMV4_EOE_DHCP_NOT_SUPPORTED EoE: DHCP not supported.
0xC0D0000A	ERR_ECMV4_EOE_NO_FILTER_SUPPORT EoE: No filter support.
0xC0D0000B	ERR_ECMV4_EOE_TIMEOUT EoE: Timeout.
0xC0D0000C	ERR_ECMV4_EOE_SHUTTING_DOWN EoE: Shutting Down.
0xC0D0000D	ERR_ECMV4_EOE_MASTER_ADDRESS_NOT_ALLOWED EoE: Master address not allowed.
0xC0D0000E	ERR_ECMV4_EOE_CONFIGURATION_IS_NOT_OPEN EoE: Configuration is not open.
0xC0D0000F	ERR_ECMV4_EOE_CONFIGURATION_IS_ALREADY_OPEN EoE: Configuration is already open.
0xC0D00010	ERR_ECMV4_EOE_DUPLICATE_IP_ADDRESS EoE: Duplicate IP address.
0xC0D00011	ERR_ECMV4_EOE_DUPLICATE_MAC_ADDRESS_ON_MULTIPLE_PORTS EoE: Duplicate MAC address on multiple ports.
0xC0D00012	ERR_ECMV4_EOE_FRAME_TOO_LARGE EoE: Frame too large.
0xC0D00013	ERR_ECMV4_EOE_IF_INITIALIZATION_ERROR EoE IF: Initialization Error.
0xC0D00014	ERR_ECMV4_EOE_IF_NO_FRAME_AVAILABLE EoE IF: No frame available.
0xC0D00015	ERR_ECMV4_EOE_LINK_DOWN EoE: Link Down.
0xC0D00016	ERR_ECMV4_EOE_REQUEST_DESTINATION_PROBLEM EoE: Request Destination Problem.

Table 39: EtherCAT Master V4 EoE error codes

3.3.23 EtherCAT Master V4 FoE

Hexadecimal value	Definition and description
0xC0D10001	ERR_ECMV4_FOE_INITIALIZATION_ERROR FoE: Initialization Error.
0xC0D10002	ERR_ECMV4_FOE_ERROR_UNKNOWN_ERROR FoE: Unknown Error.
0xC0D10003	ERR_ECMV4_FOE_INVALID_TRANSFER_HANDLE FoE: Invalid transfer handle.
0xC0D10004	ERR_ECMV4_FOE_INVALID_TRANSFER_STATE FoE: Invalid transfer state.
0xC0D10005	ERR_ECMV4_FOE_INVALID_SLAVE_STATION_ADDRESS FoE: Invalid slave station address.
0xC0D10006	ERR_ECMV4_FOE_WRONG_SLAVE_STATE FoE: Wrong slave state.
0xC0D10007	ERR_ECMV4_FOE_NO_MAILBOX_AVAILABLE FoE: No mailbox available.
0xC0D10008	ERR_ECMV4_FOE_TRANSFER_ABORTED FoE: Transfer aborted.
0xC0D10009	ERR_ECMV4_FOE_PROTOCOL_TIMEOUT FoE: Protocol Timeout.
0xC0D1000A	ERR_ECMV4_FOE_TRANSFER_SEGMENT_TOO_LONG FoE: Transfer segment too long.
0xC0D1000B	ERR_ECMV4_FOE_MAILBOX_TRANSMIT_FAILED FoE: Mailbox transmit failed.
0xC0D1000C	ERR_ECMV4_FOE_FILENAME_TOO_LONG FoE: Filename too long.
0xC0D1000D	ERR_ECMV4_FOE_BUFFER_EXCEEDED FoE: Buffer exceeded.
0xC0D1000E	ERR_ECMV4_FOE_FIRST_SEGMENT_SHOULD_NOT_BE_EMPTY FoE: First segment should not be empty.
0xC0D1000F	ERR_ECMV4_FOE_SEGMENT_SHOULD_BE_EMPTY FoE: Segment should be empty.
0xC0D10010	ERR_ECMV4_FOE_REQUEST_DESTINATION_PROBLEM FoE: Request Destination Problem.
0xC0D18000	ERR_ECMV4_FOE_ERROR_NOT_DEFINED FoE: Not Defined.
0xC0D18001	ERR_ECMV4_FOE_ERROR_NOT_FOUND FoE: Not Found.
0xC0D18002	ERR_ECMV4_FOE_ERROR_ACCESS_DENIED FoE: Access Denied.
0xC0D18003	ERR_ECMV4_FOE_ERROR_DISK_FULL FoE: Disk full.
0xC0D18004	ERR_ECMV4_FOE_ERROR_ILLEGAL FoE: Illegal.
0xC0D18005	ERR_ECMV4_FOE_ERROR_PACKET_NUMBER_WRONG FoE: Packet number wrong.
0xC0D18006	ERR_ECMV4_FOE_ERROR_ALREADY_EXISTS FoE: Already exists.

Hexadecimal value	Definition and description
0xC0D18007	ERR_ECMV4_FOE_ERROR_NO_USER FoE: No user.
0xC0D18008	ERR_ECMV4_FOE_ERROR_BOOTSTRAP_ONLY FoE: Bootstrap only.
0xC0D18009	ERR_ECMV4_FOE_ERROR_NOT_BOOTSTRAP FoE: Not Bootstrap.
0xC0D1800A	ERR_ECMV4_FOE_ERROR_NO_RIGHTS FoE: No rights.
0xC0D1800B	ERR_ECMV4_FOE_ERROR_PROGRAM_ERROR FoE: Program Error.

Table 40: EtherCAT Master V4 FoE error codes

3.3.24 EtherCAT Master V4 SoE

Hexadecimal value	Definition and description
0xC0D20001	ERR_ECMV4_SOE_UNKNOWN_SOE_ERROR Unknown SoE error.
0xC0D20002	ERR_ECMV4_SOE_INITIALIZATION_ERROR SoE: Initialization Error.
0xC0D20003	ERR_ECMV4_SOE_INVALID_TRANSFER_HANDLE SoE: Invalid transfer handle.
0xC0D20004	ERR_ECMV4_SOE_NO_MAILBOX_AVAILABLE SoE: No mailbox available.
0xC0D20005	ERR_ECMV4_SOE_INVALID_TRANSFER_STATE SoE: Invalid transfer state.
0xC0D20006	ERR_ECMV4_SOE_TRANSFER_SEGMENT_TOO_LONG SoE: Transfer segment too long.
0xC0D20007	ERR_ECMV4_SOE_SHUTTING_DOWN SoE: Shutting Down.
0xC0D20008	ERR_ECMV4_SOE_MAX_TOTAL_BYTES_SMALLER_THAN_ACTUAL_TOTAL_BYTES SoE: Max Total bytes is smaller than actual total bytes.
0xC0D20009	ERR_ECMV4_SOE_MAILBOX_TRANSMIT_FAILED SoE: Mailbox transmit failed.
0xC0D2000A	ERR_ECMV4_SOE_INVALID_SOE_HEADER SoE: Invalid SoE header.
0xC0D2000B	ERR_ECMV4_SOE_PROTOCOL_TIMEOUT SoE: Protocol Timeout.
0xC0D2000C	ERR_ECMV4_SOE_PROTOCOL_ERROR SoE: Protocol Error.
0xC0D2000D	ERR_ECMV4_SOE_TRANSFER_ABORTED SoE: Transfer aborted.
0xC0D2000E	ERR_ECMV4_SOE_WRONG_SLAVE_STATE SoE: Wrong slave state.
0xC0D2000F	ERR_ECMV4_SOE_REQUEST_DESTINATION_PROBLEM SoE: Request Destination Problem.
0xC0D20010	ERR_ECMV4_SOE_NO_AOE_AVAILABLE SoE: No AoE available.
0xC0D20011	ERR_ECMV4_SOE_INVALID_SLAVE_STATION_ADDRESS SoE: Invalid slave station address.

Hexadecimal value	Definition and description
0xC0D21001	ERR_ECMV4_SOE_SSC_NO_IDN SoE: No IDN.
0xC0D21009	ERR_ECMV4_SOE_SSC_INVALID_ACCESS_TO_ELEMENT_1 SoE: Invalid access to element 1.
0xC0D22001	ERR_ECMV4_SOE_SSC_NO_NAME SoE: No Name.
0xC0D22002	ERR_ECMV4_SOE_SSC_NAME_TRANSMISSION_IS_TOO_SHORT SoE: Name transmission is too short.
0xC0D22003	ERR_ECMV4_SOE_SSC_NAME_TRANSMISSION_IS_TOO_LONG SoE: Name transmission is too long.
0xC0D22004	ERR_ECMV4_SOE_SSC_NAME_CANNOT_BE_CHANGED SoE: Name cannot be changed.
0xC0D22005	ERR_ECMV4_SOE_SSC_NAME_IS_WRITE_PROTECTED_AT_THIS_TIME SoE: Name is write protected at this time.
0xC0D23002	ERR_ECMV4_SOE_SSC_ATTRIBUTE_TRANSMISSION_IS_TOO_SHORT SoE: Attribute transmission is too short.
0xC0D23003	ERR_ECMV4_SOE_SSC_ATTRIBUTE_TRANSMISSION_IS_TOO_LONG SoE: Attribute transmission is too long.
0xC0D23004	ERR_ECMV4_SOE_SSC_ATTRIBUTE_CANNOT_BE_CHANGED SoE: Attribute cannot be changed.
0xC0D23005	ERR_ECMV4_SOE_SSC_ATTRIBUTE_IS_WRITE_PROTECTED_AT_THIS_TIME SoE: Attribute is write protected at this time.
0xC0D24001	ERR_ECMV4_SOE_SSC_NO_UNIT SoE: No Unit.
0xC0D24002	ERR_ECMV4_SOE_SSC_UNIT_TRANSMISSION_IS_TOO_SHORT SoE: Unit transmission is too short.
0xC0D24003	ERR_ECMV4_SOE_SSC_UNIT_TRANSMISSION_IS_TOO_LONG SoE: Name transmission is too long.
0xC0D24004	ERR_ECMV4_SOE_SSC_UNIT_CANNOT_BE_CHANGED SoE: Unit cannot be changed.
0xC0D24005	ERR_ECMV4_SOE_SSC_UNIT_IS_WRITE_PROTECTED_AT_THIS_TIME SoE: Unit is write protected at this time.
0xC0D25001	ERR_ECMV4_SOE_SSC_NO_MINIMUM_VALUE SoE: No minimum value.
0xC0D25002	ERR_ECMV4_SOE_SSC_MINIMUM_VALUE_TRANSMISSION_IS_TOO_SHORT SoE: Minimum value transmission is too short.
0xC0D25003	ERR_ECMV4_SOE_SSC_MINIMUM_VALUE_TRANSMISSION_IS_TOO_LONG SoE: Minimum value transmission is too long.
0xC0D25004	ERR_ECMV4_SOE_SSC_MINIMUM_VALUE_CANNOT_BE_CHANGED SoE: Minimum value cannot be changed.
0xC0D25005	ERR_ECMV4_SOE_SSC_MINIMUM_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME SoE: Minimum value is write protected at this time.
0xC0D26001	ERR_ECMV4_SOE_SSC_NO_MAXIMUM_VALUE SoE: No maximum value.
0xC0D26002	ERR_ECMV4_SOE_SSC_MAXIMUM_VALUE_TRANSMISSION_IS_TOO_SHORT SoE: Maximum value transmission is too short.
0xC0D26003	ERR_ECMV4_SOE_SSC_MAXIMUM_VALUE_TRANSMISSION_IS_TOO_LONG SoE: Maximum value transmission is too long.

Hexadecimal value	Definition and description
0xC0D26004	ERR_ECMV4_SOE_SSC_MAXIMUM_VALUE_CANNOT_BE_CHANGED SoE: Maximum value cannot be changed.
0xC0D26005	ERR_ECMV4_SOE_SSC_MAXIMUM_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME SoE: Maximum value is write protected at this time.
0xC0D27002	ERR_ECMV4_SOE_SSC_OPDATA_TRANSMISSION_IS_TOO_SHORT SoE: Operation data transmission is too short.
0xC0D27003	ERR_ECMV4_SOE_SSC_OPDATA_TRANSMISSION_IS_TOO_LONG SoE: Operation data transmission is too long.
0xC0D27004	ERR_ECMV4_SOE_SSC_OPDATA_CANNOT_BE_CHANGED SoE: Operation data cannot be changed.
0xC0D27005	ERR_ECMV4_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_THIS_TIME SoE: Operation data is write protected at this time.
0xC0D27006	ERR_ECMV4_SOE_SSC_OPDATA_IS_LOWER_THAN_MINIMUM_VALUE SoE: Operation data is lower than minimum value.
0xC0D27007	ERR_ECMV4_SOE_SSC_OPDATA_IS_HIGHER_THAN_MAXIMUM_VALUE SoE: Operation data is higher than maximum value.
0xC0D27008	ERR_ECMV4_SOE_SSC_OPDATA_IS_INVALID SoE: Operation data is invalid.
0xC0D27009	ERR_ECMV4_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_BY_PASSWORD SoE: Operation data is write protected by password.
0xC0D2700A	ERR_ECMV4_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_DUE_CYCLICALLY_CONFIGURED SoE: Operation data is write protected due to being cyclically configured.
0xC0D2700B	ERR_ECMV4_SOE_SSC_OPDATA_INVALID_INDIRECT_ADDRESSING SoE: Invalid indirect addressing.
0xC0D2700C	ERR_ECMV4_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_DUE_OTHER_SETTINGS SoE: Operation data is write protected due other settings.
0xC0D2700D	ERR_ECMV4_SOE_SSC_OPDATA_INVALID_FLOATING_POINT_NUMBER SoE: Invalid floating point number.
0xC0D2700E	ERR_ECMV4_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_PARAMETERIZATION_LEVEL SoE: Operation data is write protected at parameterization level.
0xC0D2700F	ERR_ECMV4_SOE_SSC_OPDATA_IS_WRITE_PROTECTED_AT_OPERATION_LEVEL SoE: Operation data is write protected at operation level.
0xC0D27010	ERR_ECMV4_SOE_SSC_PROCEDURE_COMMAND_ALREADY_ACTIVE SoE: Procedure command already active.
0xC0D27011	ERR_ECMV4_SOE_SSC_PROCEDURE_COMMAND_NOT_INTERRUPTIBLE SoE: Procedure command is not interruptible.
0xC0D27012	ERR_ECMV4_SOE_SSC_PROCEDURE_COMMAND_NOT_EXECUTABLE_AT_THIS_TIME SoE: Procedure command is not executable at this time.
0xC0D27013	ERR_ECMV4_SOE_SSC_PROCEDURE_COMMAND_NOT_EXECUTABLE_INVALID_PARAM SoE: Procedure command is not executable due to invalid parameter.

Table 41: EtherCAT Master V4 SoE error codes

3.3.25 EtherCAT Master V4 ENI

Hexadecimal value	Definition and description
0xC0D40001	ERR_ECMV4_ENI_CLOSING_TAG_DOES_NOT_MATCH_OPENING_TAG ENI: Closing tag does not match opening tag.
0xC0D40002	ERR_ECMV4_ENI_UNEXPECTED_OPENING_TAG_IN_NUMBER_FIELD ENI: Unexpected opening tag in number field.
0xC0D40003	ERR_ECMV4_ENI_UNEXPECTED_SINGLE_TAG_IN_NUMBER_FIELD ENI: Unexpected single tag in number field.
0xC0D40004	ERR_ECMV4_ENI_CLOSING_TAG_DOES_NOT_MATCH_NUMBER_FIELD_TAG ENI: Closing tag does not match number field tag.
0xC0D40005	ERR_ECMV4_ENI_NUMBER_FIELD_IS_INVALID ENI: Number field is invalid.
0xC0D40006	ERR_ECMV4_ENI_UNEXPECTED_OPENING_TAG_IN_STRING_FIELD ENI: Unexpected opening tag in string field.
0xC0D40007	ERR_ECMV4_ENI_UNEXPECTED_SINGLE_TAG_IN_STRING_FIELD ENI: Unexpected single tag in string field.
0xC0D40008	ERR_ECMV4_ENI_CLOSING_TAG_DOES_NOT_MATCH_STRING_FIELD_TAG ENI: Closing tag does not match string field tag.
0xC0D40009	ERR_ECMV4_ENI_DATA_FIELD_IS_NOT_A_HEX_STRING ENI: Data field is not a hex string.
0xC0D4000A	ERR_ECMV4_ENI_UNEXPECTED_OPENING_TAG_IN_DATA_FIELD ENI: Unexpected opening tag in data field.
0xC0D4000B	ERR_ECMV4_ENI_UNEXPECTED_SINGLE_TAG_IN_DATA_FIELD ENI: Unexpected single tag in data field.
0xC0D4000C	ERR_ECMV4_ENI_CLOSING_TAG_DOES_NOT_MATCH_DATA_FIELD_TAG ENI: Closing tag does not match data field tag.
0xC0D4000D	ERR_ECMV4_ENI_INTERNAL_ERROR ENI: Internal Error.
0xC0D4000E	ERR_ECMV4_ENI_PREMATURE_END_OF_FILE ENI: Premature End of File.
0xC0D4000F	ERR_ECMV4_ENI_END_OF_FILE ENI: End of file.
0xC0D40010	ERR_ECMV4_ENI_INVALID_XML ENI: Invalid XML.
0xC0D40011	ERR_ECMV4_ENI_UNEXPECTED_SINGLE_TAG_IN_ECATCH_INITCMD_BLOCK ENI: Unexpected single tag in InitCmd block.
0xC0D40012	ERR_ECMV4_ENI_DUPLICATE_TAG_IN_ECATCH_INITCMD_BLOCK ENI: Duplicate tag in InitCmd block.
0xC0D40013	ERR_ECMV4_ENI_UNEXPECTED_OPENING_TAG_IN_ECATCH_INITCMD_BLOCK ENI: Unexpected opening tag in InitCmd block.
0xC0D40014	ERR_ECMV4_ENI_CLOSING_TAG_DOES_NOT_MATCH_ECATCH_INITCMD_TAG ENI: Closing tag does not match InitCmd opening tag.
0xC0D40015	ERR_ECMV4_ENI_INVALID_TRANSITION_IN_ECATCH_INITCMD_BLOCK ENI: Invalid transition in InitCmd block.
0xC0D40016	ERR_ECMV4_ENI_ECATCH_INITCMD_IS_INCOMPLETE ENI: InitCmd block is incomplete.
0xC0D40017	ERR_ECMV4_ENI_ECATCH_INITCMD_VALIDATE_BLOCK_IS_INVALID ENI: InitCmd validate block is invalid.

Hexadecimal value	Definition and description
0xC0D40018	ERR_ECMV4_ENI_UNEXPECTED_SINGLE_TAG_IN_ECAT_INITCMD_VALIDATE_BLOCK ENI: Unexpected single tag in InitCmd validate block.
0xC0D40019	ERR_ECMV4_ENI_DUPLICATE_TAG_IN_ECAT_INITCMD_VALIDATE_BLOCK ENI: Duplicate tag in InitCmd validate block.
0xC0D4001A	ERR_ECMV4_ENI_UNEXPECTED_OPENING_TAG_IN_ECAT_INITCMD_VALIDATE_BLOCK ENI: Unexpected opening tag in InitCmd validate block.
0xC0D4001B	ERR_ECMV4_ENI_CLOSING_TAG_DOES_NOT_MATCH_ECAT_INITCMD_VALIDATE_TAG ENI: Closing tag does not match InitCmd validate opening tag.
0xC0D4001C	ERR_ECMV4_ENI_XML_FILE_IS_NOT_AN_ENI_XML ENI: XML file is not an ENI file.
0xC0D4001D	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_ETHERCATCONFIG_BLOCK ENI: Unexpected closing tag in EtherCATConfig block.
0xC0D4001E	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_CONFIG_BLOCK ENI: Unexpected closing tag in Config block.
0xC0D4001F	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_MASTER_BLOCK ENI: Unexpected closing tag in Master block.
0xC0D40020	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_MASTER_INITCMDS_BLOCK ENI: Unexpected closing tag in Master/InitCmds block.
0xC0D40021	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_BLOCK ENI: Unexpected closing tag in Slave block.
0xC0D40022	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_INITCMDS_BLOCK ENI: Unexpected closing tag in Slave/InitCmds block.
0xC0D40023	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_INFO_BLOCK ENI: Unexpected closing tag in Slave/Info block.
0xC0D40024	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_BLOCK ENI: Unexpected closing tag in Slave/Mailbox block.
0xC0D40025	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_DC_BLOCK ENI: Unexpected closing tag in Slave/DC block.
0xC0D40026	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_HOTCONNECT_BLOCK ENI: Unexpected closing tag in Slave/HotConnect block.
0xC0D40027	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_PREVIOUSPORT_BLOCK ENI: Unexpected closing tag in Slave/PreviousPort block.
0xC0D40028	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_CYCLIC_BLOCK ENI: Unexpected closing tag in Cyclic block.
0xC0D40029	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_CYCLIC_FRAME_BLOCK ENI: Unexpected closing tag in Cyclic/Frame block.
0xC0D4002A	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_CYCLIC_FRAME_CMD_BLOCK ENI: Unexpected closing tag in Cyclic/Frame/Cmd block.
0xC0D4002B	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_COE_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/CoE block.
0xC0D4002C	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_COE_INITCMDS_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/CoE/InitCmds block.
0xC0D4002D	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_COE_INITCMD_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/CoE/InitCmds/InitCmd block.
0xC0D4002E	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_SOE_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/SoE block.

Hexadecimal value	Definition and description
0xC0D4002F	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_SOE_INITCMDS_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/SoE/InitCmds block.
0xC0D40030	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_SOE_INITCMD_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/SoE/InitCmds/InitCmd block.
0xC0D40031	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_EOE_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/EoE block.
0xC0D40032	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_EOE_INITCMDS_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/EoE/InitCmds block.
0xC0D40033	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_EOE_INITCMD_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/EoE/InitCmds/InitCmd block.
0xC0D40034	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_AOE_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/AoE block.
0xC0D40035	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_AOE_INITCMDS_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/AoE/InitCmds block.
0xC0D40036	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_AOE_INITCMD_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/AoE/InitCmds/InitCmd block.
0xC0D40037	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_FOE_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/FoE block.
0xC0D40038	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_FOE_INITCMDS_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/FoE/InitCmds block.
0xC0D40039	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_FOE_INITCMD_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/FoE/InitCmds/InitCmd block.
0xC0D4003A	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_VOE_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/VoE block.
0xC0D4003B	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_VOE_INITCMDS_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/VoE/InitCmds block.
0xC0D4003C	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_VOE_INITCMD_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/VoE/InitCmds/InitCmd block.
0xC0D4003D	ERR_ECMV4_ENI_LOADING_NOT_ENABLED ENI: Loading not enabled.
0xC0D4003E	ERR_ECMV4_ENI_COULD_NOT_OPEN_FILE ENI: Could not open file.
0xC0D4003F	ERR_ECMV4_ENI_BASE_CYCLE_TIME_TOO_SMALL ENI: Base cycle time too small.
0xC0D40040	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_INFO_PREVIOUSPORT_BLOCK ENI: Unexpected closing tag in Slave/Info/PreviousPort block.
0xC0D40041	ERR_ECMV4_ENI_INVALID_PORT_IN_SLAVE_INFO_PREVIOUSPORT_BLOCK ENI: Invalid port in Slave/Info/PreviousPort block.
0xC0D40042	ERR_ECMV4_ENI_INVALID_PHYSADDR_IN_SLAVE_INFO_PREVIOUSPORT_BLOCK ENI: Invalid PhysAddr in Slave/Info/PreviousPort block.

Hexadecimal value	Definition and description
0xC0D40043	ERR_ECMV4_ENI_INVALID_TRANSITION_IN_COE_INITCMD_BLOCK ENI: Invalid transition in CoE/InitCmd block.
0xC0D40044	ERR_ECMV4_ENI_MISSING_TRANSITIONS_IN_COE_INITCMD_BLOCK ENI: Missing transitions in CoE/InitCmd block.
0xC0D40045	ERR_ECMV4_ENI_INVALID_CCS_IN_COE_INITCMD_BLOCK ENI: Invalid Ccs in CoE/InitCmd block.
0xC0D40046	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_SEND_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/Send block.
0xC0D40047	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_RECV_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/Recv block.
0xC0D40048	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_MAILBOX_BOOTSTRAP_BLOCK ENI: Unexpected closing tag in Slave/Mailbox/Bootstrap block.
0xC0D40049	ERR_ECMV4_ENI_INVALID_EOE_INITCMD ENI: Invalid EoE InitCmd.
0xC0D4004A	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_MASTER_MAILBOXSTATES_BLOCK ENI: Unexpected closing tag in Master/MailboxStates block.
0xC0D4004B	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_INFO_PROCESSDATA_BLOCK ENI: Unexpected closing tag in Slave/Info/ProcessData block.
0xC0D4004C	ERR_ECMV4_ENI_INVALID_MBOX_STATE_BIT_NO_IN_SLAVE_INFO_PROCESSDATA_RECV_BLOCK ENI: Invalid MBoxState Bit number in Slave/Info/ProcessData/Recv block.
0xC0D4004D	ERR_ECMV4_ENI_PROCESS_DATA_CONFIG_OFFSET_NOT_POSSIBLE ENI: Process Data config offset not possible.
0xC0D4004E	ERR_ECMV4_ENI_MISSING_TRANSITIONS_IN_SOE_INITCMD_BLOCK ENI: Missing transitions in SoE/InitCmd block.
0xC0D4004F	ERR_ECMV4_ENI_INVALID_OPCODE_IN_SOE_INITCMD_BLOCK ENI: Invalid OpCode in SoE/InitCmd block.
0xC0D40050	ERR_ECMV4_ENI_UNSUPPORTED_ECAT_CMD_IN_IDENTIFYCMD_BLOCK ENI: Unsupported EtherCAT command in IdentifyCmd block.
0xC0D40051	ERR_ECMV4_ENI_UNSUPPORTED_ECAT_REG_IN_IDENTIFYCMD_BLOCK ENI: Unsupported EtherCAT register in IdentifyCmd block.
0xC0D40052	ERR_ECMV4_ENI_MISSING_IDENTIFYCMD_DATA_FOR_HOT_CONNECT_SLAVE ENI: Missing IdentifyCmd data for HotConnect slave.
0xC0D40053	ERR_ECMV4_ENI_INVALID_IDENTIFYCMD_DATA_FOR_HOT_CONNECT_SLAVE ENI: Invalid IdentifyCmd data for HotConnect slave.
0xC0D40054	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_INFO_SM_BLOCK ENI: Unexpected closing tag in Slave/Info/Sm block.
0xC0D40055	ERR_ECMV4_ENI_TOO_MANY_PDOS_LISTED_IN_SLAVE_INFO_SM_BLOCK ENI: Too many PDOs listed in Slave/Info/Sm block.
0xC0D40056	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_INFO_PDO_BLOCK ENI: Unexpected closing tag in Slave/Info/Pdo block.
0xC0D40057	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_SLAVE_INFO_PDO_ENTRY_BLOCK ENI: Unexpected closing tag in Slave/Info/Pdo/Entry block.
0xC0D40058	ERR_ECMV4_ENI_TOO_MANY_PDO_ENTRIES_LISTED_IN_SLAVE_INFO_PDO_BLOCK ENI: Too many PDO entries listed in Slave/Info/PDO block.
0xC0D40059	ERR_ECMV4_ENI_INDEX_OF_PDO_ENTRY_INVALID ENI: Index of PDO entry invalid.

Hexadecimal value	Definition and description
0xC0D4005A	ERR_ECMV4_ENI_SUBINDEX_OF_PDO_ENTRY_INVALID ENI: Subindex of PDO entry invalid.
0xC0D4005B	ERR_ECMV4_ENI_BIT_LENGTH_OF_PDO_ENTRY_EXCEEDS_MAXIMUM_BIT_LENGTH ENI: Bit length of PDO entry exceeds maximum bit length.
0xC0D4005C	ERR_ECMV4_ENI_NO_SLAVES_IN_ENI ENI: No slaves in ENI.
0xC0D4005D	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_CYCLIC_FRAME_CMD_COPYINFOS_BLOCK ENI: Unexpected closing tag in Cyclic/Frame/Cmd/CopyInfos block.
0xC0D4005E	ERR_ECMV4_ENI_UNEXPECTED_CLOSING_TAG_IN_CYCLIC_FRAME_CMD_COPYINFOS_COPYINFO_BLOCK ENI: Unexpected closing tag in Cyclic/Frame/Cmd/CopyInfos/CopyInfo block.
0xC0D4005F	ERR_ECMV4_ENI_DUPLICATE_TAG_IN_CYCLIC_FRAME_CMD_COPYINFOS_COPYINFO_BLOCK ENI: Duplicate tag in Cyclic/Frame/Cmd/CopyInfos/CopyInfo block.
0xC0D40060	ERR_ECMV4_ENI_INVALID_COPYINFO_BLOCK ENI: Invalid CopyInfo block.
0xC0D40061	ERR_ECMV4_ENI_INVALID_ATTRIBUTE_IN_ECAT_INITCMD_VALIDATE_BLOCK ENI: Invalid XML attribute in InitCmd/Validate block.
0xC0D40062	ERR_ECMV4_ENI_INVALID_TRANSITION_IN_VOE_INITCMD_BLOCK ENI: Invalid transition in VoE/InitCmd block.
0xC0D40063	ERR_ECMV4_ENI_MISSING_TRANSITIONS_IN_VOE_INITCMD_BLOCK ENI: Missing transitions in VoE/InitCmd block.
0xC0D40064	ERR_ECMV4_ENI_MISSING_DATA_IN_VOE_INITCMD_BLOCK ENI: Missing data in VoE/InitCmd block.
0xC0D40065	ERR_ECMV4_ENI_INVALID_NETID_IN_AOE_BLOCK ENI: Invalid Net ID in AoE block.
0xC0D40066	ERR_ECMV4_ENI_INVALID_TRANSITION_IN_AOE_INITCMD_BLOCK ENI: Invalid transition in AoE/InitCmd block.
0xC0D40067	ERR_ECMV4_ENI_MISSING_TRANSITIONS_IN_AOE_INITCMD_BLOCK ENI: Missing transition in AoE/InitCmd block.
0xC0D40068	ERR_ECMV4_ENI_MISSING_DATA_IN_AOE_INITCMD_BLOCK ENI: Missing data in AoE/InitCmd block.
0xC0D40069	ERR_ECMV4_ENI_INVALID_BEFORE_SLAVE_VALUE ENI: Invalid BeforeSlave value.
0xC0D4006A	ERR_ECMV4_ENI_INVALID_COMPLETE_ACCESS_ATTRIBUTE ENI: Invalid CompleteAccess XML attribute.
0xC0D4006B	ERR_ECMV4_ENI_ECAT_INITCMD_MISSING_TRANSITIONS ENI: Ecac InitCmd misses transitions.

Table 42: EtherCAT Master V4 ENI error codes

3.3.26 EtherCAT Master V4 AL

Hexadecimal value	Definition and description
0xC0D50001	ERR_ECMV4_ALSTATUSCODE_UNSPECIFIED_ERROR AIStatusCode: Unspecified Error.
0xC0D50002	ERR_ECMV4_ALSTATUSCODE_NO_MEMORY AIStatusCode: No Memory.
0xC0D50003	ERR_ECMV4_ALSTATUSCODE_INVALID_DEVICE_SETUP AIStatusCode: Invalid device setup.
0xC0D50011	ERR_ECMV4_ALSTATUSCODE_INVALID_REQUESTED_STATE_CHANGE AIStatusCode: Invalid requested state change.
0xC0D50012	ERR_ECMV4_ALSTATUSCODE_UNKNOWN_REQUESTED_STATE AIStatusCode: Unknown requested state.
0xC0D50013	ERR_ECMV4_ALSTATUSCODE_BOOTSTRAP_NOT_SUPPORTED AIStatusCode: Bootstrap not supported.
0xC0D50014	ERR_ECMV4_ALSTATUSCODE_NO_VALID_FIRMWARE AIStatusCode: No valid firmware.
0xC0D50015	ERR_ECMV4_ALSTATUSCODE_INVALID_BOOT_MAILBOX_CONFIGURATION AIStatusCode: Invalid BOOT mailbox configuration.
0xC0D50016	ERR_ECMV4_ALSTATUSCODE_INVALID_PREOP_MAILBOX_CONFIGURATION AIStatusCode: Invalid PREOP mailbox configuration.
0xC0D50017	ERR_ECMV4_ALSTATUSCODE_INVALID_SYNC_MANAGER_CONFIGURATION AIStatusCode: Invalid Sync Manager configuration.
0xC0D50018	ERR_ECMV4_ALSTATUSCODE_NO_VALID_INPUTS_AVAILABLE AIStatusCode: No valid inputs available.
0xC0D50019	ERR_ECMV4_ALSTATUSCODE_NO_VALID_OUTPUTS AIStatusCode: No valid outputs.
0xC0D5001A	ERR_ECMV4_ALSTATUSCODE_SYNCHRONIZATION_ERROR AIStatusCode: Synchronization Error.
0xC0D5001B	ERR_ECMV4_ALSTATUSCODE_SYNC_MANAGER_WATCHDOG AIStatusCode: Sync Manager watchdog.
0xC0D5001C	ERR_ECMV4_ALSTATUSCODE_INVALID_SYNC_MANAGER_TYPES AIStatusCode: Invalid Sync Manager types.
0xC0D5001D	ERR_ECMV4_ALSTATUSCODE_INVALID_OUTPUT_CONFIGURATION AIStatusCode: Invalid output configuration.
0xC0D5001E	ERR_ECMV4_ALSTATUSCODE_INVALID_INPUT_CONFIGURATION AIStatusCode: Invalid input configuration.
0xC0D5001F	ERR_ECMV4_ALSTATUSCODE_INVALID_WATCHDOG_CONFIGURATION AIStatusCode: Invalid watchdog configuration.
0xC0D50020	ERR_ECMV4_ALSTATUSCODE_SLAVE_NEEDS_COLD_START AIStatusCode: Slave needs cold start.
0xC0D50021	ERR_ECMV4_ALSTATUSCODE_SLAVE_NEEDS_INIT AIStatusCode: Slave needs INIT.
0xC0D50022	ERR_ECMV4_ALSTATUSCODE_SLAVE_NEEDS_PREOP AIStatusCode: Slave needs PREOP.
0xC0D50023	ERR_ECMV4_ALSTATUSCODE_SLAVE_NEEDS_SAFEOP AIStatusCode: Slave needs SAFEOP.
0xC0D50024	ERR_ECMV4_ALSTATUSCODE_INVALID_INPUT_MAPPING AIStatusCode: Invalid input mapping.

Hexadecimal value	Definition and description
0xC0D50025	ERR_ECMV4_ALSTATUSCODE_INVALID_OUTPUT_MAPPING AIStatusCode: Invalid output mapping.
0xC0D50026	ERR_ECMV4_ALSTATUSCODE_INCONSISTENT_SETTINGS AIStatusCode: Inconsistent settings.
0xC0D50027	ERR_ECMV4_ALSTATUSCODE_FREERUN_NOT_SUPPORTED AIStatusCode: Free Run not supported.
0xC0D50028	ERR_ECMV4_ALSTATUSCODE_SYNCMODE_NOT_SUPPORTED AIStatusCode: SyncMode not supported.
0xC0D50029	ERR_ECMV4_ALSTATUSCODE_FREERUN_NEEDS_3BUFFER_MODE AIStatusCode: Free Run needs 3 Buffer Mode.
0xC0D5002A	ERR_ECMV4_ALSTATUSCODE_BACKGROUND_WATCHDOG AIStatusCode: Background Watchdog.
0xC0D5002B	ERR_ECMV4_ALSTATUSCODE_NO_VALID_INPUTS_AND_OUTPUTS AIStatusCode: No valid inputs and outputs.
0xC0D5002C	ERR_ECMV4_ALSTATUSCODE_FATAL_SYNC_ERROR AIStatusCode: Fatal Sync Error.
0xC0D5002D	ERR_ECMV4_ALSTATUSCODE_NO_SYNC_ERROR AIStatusCode: No Sync Error.
0xC0D50030	ERR_ECMV4_ALSTATUSCODE_INVALID_DC_SYNC_CONFIGURATION AIStatusCode: Invalid DC Sync configuration.
0xC0D50031	ERR_ECMV4_ALSTATUSCODE_INVALID_DC_LATCH_CONFIGURATION AIStatusCode: Invalid DC Latch configuration.
0xC0D50032	ERR_ECMV4_ALSTATUSCODE_PLL_ERROR AIStatusCode: PLL Error.
0xC0D50033	ERR_ECMV4_ALSTATUSCODE_DC_SYNC_IO_ERROR AIStatusCode: DC Sync I/O Error.
0xC0D50034	ERR_ECMV4_ALSTATUSCODE_DC_SYNC_TIMEOUT_ERROR AIStatusCode: DC Sync Timeout Error.
0xC0D50035	ERR_ECMV4_ALSTATUSCODE_DC_INVALID_SYNC_CYCLE_TIME AIStatusCode: Invalid DC Sync cycle time.
0xC0D50036	ERR_ECMV4_ALSTATUSCODE_DC_SYNC0_CYCLE_TIME AIStatusCode: DC Sync0 Cycle Time.
0xC0D50037	ERR_ECMV4_ALSTATUSCODE_DC_SYNC1_CYCLE_TIME AIStatusCode: DC Sync0 Cycle Time.
0xC0D50041	ERR_ECMV4_ALSTATUSCODE_MBX_AOE AIStatusCode: Mbx AoE.
0xC0D50042	ERR_ECMV4_ALSTATUSCODE_MBX_EOE AIStatusCode: Mbx EoE.
0xC0D50043	ERR_ECMV4_ALSTATUSCODE_MBX_COE AIStatusCode: Mbx CoE.
0xC0D50044	ERR_ECMV4_ALSTATUSCODE_MBX_FOE AIStatusCode: Mbx FoE.
0xC0D50045	ERR_ECMV4_ALSTATUSCODE_MBX_SOE AIStatusCode: Mbx SoE.
0xC0D5004F	ERR_ECMV4_ALSTATUSCODE_MBX_VOE AIStatusCode: Mbx VoE.
0xC0D50050	ERR_ECMV4_ALSTATUSCODE_EEPROM_NO_ACCESS AIStatusCode: EEPROM: No PDI Access.

Hexadecimal value	Definition and description
0xC0D50051	ERR_ECMV4_ALSTATUSCODE_EEPROM_ERROR AIStatusCode: EEPROM: Error.
0xC0D50060	ERR_ECMV4_ALSTATUSCODE_SLAVE_RESTARTED_LOCALLY AIStatusCode: Slave restarted locally.
0xC0D50061	ERR_ECMV4_ALSTATUSCODE_DEVICE_IDENTIFICATION_VALUE_UPDATED AIStatusCode: Device identification value updated.
0xC0D500F0	ERR_ECMV4_ALSTATUSCODE_APPLICATION_CONTROLLER_AVAILABLE AIStatusCode: Application controller available.

Table 43: EtherCAT Master V4 AL Status codes

3.3.27 EtherCAT Master V4 IF

Hexadecimal value	Definition and description
0xC0D60001	ERR_ECMV4_IF_COE_SUPPORT_NOT_AVAILABLE CoE Support not available.
0xC0D60002	ERR_ECMV4_IF_SOE_SUPPORT_NOT_AVAILABLE SoE Support not available.
0xC0D60003	ERR_ECMV4_IF_FOE_SUPPORT_NOT_AVAILABLE FoE Support not available.
0xC0D60004	ERR_ECMV4_IF_AOE_SUPPORT_NOT_AVAILABLE AoE Support not available.
0xC0D60005	ERR_ECMV4_IF_INVALID_TRANSPORT_TYPE Invalid transport type.
0xC0D60006	ERR_ECMV4_IF_SOE_INVALID_DRIVE_NO SoE: Invalid drive number.
0xC0D60007	ERR_ECMV4_IF_SOE_INVALID_ELEMENT_FLAGS Invalid element flags.
0xC0D60008	ERR_ECMV4_IF_INVALID_SOE_TRANSFER_ID Invalid SoE Transfer Id.
0xC0D60009	ERR_ECMV4_IF_TRANSFER_ABORTED Transfer aborted.
0xC0D6000A	ERR_ECMV4_IF_OUT_OF_PACKETS Out of packets.
0xC0D6000B	ERR_ECMV4_IF_OUT_OF_TRANSFER_CONTEXTS Out of transfer contexts.
0xC0D6000C	ERR_ECMV4_IF_INVALID_SUBINDEX_FOR_COMPLETE_ACCESS Invalid Subindex for Complete Access.
0xC0D6000D	ERR_ECMV4_IF_INVALID_COE_TRANSFER_ID Invalid CoE Transfer Id.
0xC0D6000E	ERR_ECMV4_IF_INVALID_COE_SDOINFO_LISTTYPE Invalid CoE SDOINFO ListType.
0xC0D6000F	ERR_ECMV4_IF_FILE_READ_ERROR File Read Error.
0xC0D60010	ERR_ECMV4_IF_COULD_NOT_OPEN_FILE Could not open file.
0xC0D60011	ERR_ECMV4_IF_INVALID_CONFIG_NXD Invalid config.nxd.
0xC0D60012	ERR_ECMV4_IF_CONFIG_NXD_WITHOUT_SLAVES Config.nxd without slaves.
0xC0D60013	ERR_ECMV4_IF_INVALID_FILE_NAME Invalid filename.
0xC0D60014	ERR_ECMV4_IF_INVALID_FOE_TRANSFER_ID Invalid FoE Transfer Id.
0xC0D60015	ERR_ECMV4_IF_INVALID_GET_TOPOLOGY_TRANSFER_ID Invalid Get Topology Transfer Id.
0xC0D60016	ERR_ECMV4_IF_INVALID_AOE_TRANSFER_ID Invalid AoE Transfer Id.
0xC0D60017	ERR_ECMV4_IF_CONFIG_ACFG_SUPPORT_NOT_AVAILABLE AutoCfg support not available.

Table 44: EtherCAT Master V4 IF error codes

3.3.28 EtherCAT Master V4 AP Task

Hexadecimal value	Definition and description
0xC0D70001	ERR_ECMV4_AP_FIRMWARE_HAS_CRASHED Firmware has crashed.
0xC0D70002	ERR_ECMV4_AP_CONFIGURATION_INTERFACE_NOT_AVAILABLE Configuration interface not currently available.
0xC0D70003	ERR_ECMV4_AP_SET_TARGET_STATE_NOT_ALLOWED_DURING_CFG_LOADING Set Target State is not allowed during configuration loading.
0xC0D70004	ERR_ECMV4_AP_INVALID_STARTUP_PARAMETER Invalid startup parameter.

Table 45: EtherCAT Master V4 AP Task error codes

3.3.29 EtherCAT Slave V4 AoE

Hexadecimal value	Definition and description
0xC0F00001	ERR_ECSV4_AOE_MDP_GENERAL_ERROR High word is general error low word coming from MDP profile devices like IOLink master

Table 46: EtherCAT Slave V4 AoE General error codes

3.4 Ethernet, IP, TCP, and UDP

3.4.1 IP (TCP_UDP Task)

Hexadecimal value	Definition and description
0xC0070034	ERR_IP_ERR_INIT_NO_ETHERNET_ADDR There is no Ethernet address (MAC address) available.
0xC0070036	ERR_IP_ERR_INIT_INVALID_FLAG The start parameters contains one or more unknown flags.
0xC0070037	ERR_IP_ERR_INIT_INVALID_IP_ADDR The start parameters contains an invalid IP address.
0xC0070038	ERR_IP_ERR_INIT_INVALID_NETMASK The start parameters contains an invalid subnet mask.
0xC0070039	ERR_IP_ERR_INIT_INVALID_GATEWAY The start parameters contains an invalid gateway IP address.
0xC007003b	ERR_IP_ERR_INIT_UNKNOWN_HARDWARE The device type is unknown.
0xC007003c	ERR_IP_ERR_INIT_NO_IP_ADDR Failed to obtain an IP address from the specified source(s).
0xC007003d	ERR_IP_ERR_INIT_DRIVER_FAILED The initialization of the driver layer (EDD) is failed.
0xC007003e	ERR_IP_ERR_INIT_NO_IP_ADDR_CFG There is no source for an IP address (BOOTP, DHCP, IP address parameter) specified.
0xC007007c	ERR_IP_ERR_ETH_ADDR_INVALID_IP_CMD_SET_PARAM 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.
0xC0070083	ERR_IP_ERR_ARP_CACHE_FULL_IP_CMD_SET_PARAM 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.
0xC0070086	ERR_IP_ERR_ARP_ENTRY_NOT_FOUND_IP_CMD_SET_PARAM 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.
0xC0070087	ERR_IP_ERR_ARP_ENTRY_NOT_FOUND_IP_CMD_GET_PARAM 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.
0x80070088	WARN_IP_ERR_ACD_MAX_CONFLICTS_REACHED The maximum number of ACD conflicts has been reached. IP address could not be obtained via BOOTP/DHCP.
0xC00700fe	ERR_IP_ERR_DELAYED Special internal error code returned by IpStart function.
0xC00700ff	ERR_IP_ERR_GENERIC Special internal error code returned by IpStart function.
0xC0070100	ERR_IP_ERR_IP_ADDR_INVALID_IP_CMD_PING 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.
0xC0070120	ERR_IP_ERR_TIMEOUT_INVALID_IP_CMD_PING The timeout parameter ulTimeout in command TCPIP_IP_CMD_PING_REQ is invalid.
0xC0070130	ERR_IP_ERR_MODE_UNKNOWN_IP_CMD_SET_PARAM The mode parameter ulMode in command TCPIP_IP_CMD_SET_PARAM_REQ is invalid.

Hexadecimal value	Definition and description
0xC0070131	ERR_IP_ERR_MODE_UNKNOWN_IP_CMD_GET_PARAM The mode parameter ulMode in command TCPIP_IP_CMD_GET_PARAM_REQ is invalid.
0xC0070150	ERR_IP_ERR_INIT_INVALID_FLAGS_IP_CONFIG The start parameters configures an invalid flag combination for the manual IP configuration (IP_CFG_FLAG_IP_ADDR, IP_CFG_FLAG_NET_MASK, IP_CFG_FLAG_GATEWAY). Valid flag combinations are: - No flag set: No manual configuration - only DHCP and/or BOOTP - IP_CFG_FLAG_IP_ADDR + IP_CFG_FLAG_NET_MASK: Local network without gateway - IP_CFG_FLAG_IP_ADDR + IP_CFG_FLAG_NET_MASK + IP_CFG_FLAG_GATEWAY: Network with gateway.
0xC0070300	ERR_IP_ERR_DEST_UNREACHABLE_IP_CMD_PING The target IP address ulIpAddr in command TCPIP_IP_CMD_PING_REQ is not reachable.
0xC0070310	ERR_IP_ERR_TIMEOUT_IP_CMD_PING The specified timeout ulTimeout in command TCPIP_IP_CMD_PING_REQ has expired. The specified host is not reachable.

Table 47: IP packet status codes (TCP_UDP task)

3.4.2 TCP_UDP Task

Hexadecimal value	Definition and description
0xC0080003	ERR_TCP_ERR_CODEDIAG_FATAL A fatal error has occurred. Terminate the task.
0xC0080005	ERR_TCP_TASK_F_INITIALIZATION_FAILED Failed to initialize the task. Accept Init packets and Config packets only.
0xC0080006	ERR_IP_ERR_INIT_INVALID_SERIAL_NUMBER Invalid serial number.
0xC0080007	ERR_IP_ERR_INIT_IP_INIT_ERROR Failed to initialize the IP layer - see task status.
0xC0080009	ERR_TCPIP_TCP_TASK_PROCESS_CANCELED Cancel process is in progress, command cannot be executed.
0xC008000A	ERR_TCPIP_EDD_IDENTIFY_FAILED Failed to identify the EDD (Ethernet Device Driver).
0xC008000B	ERR_TCPIP_APPLICATION_TIMER_CREATE_FAILED Failed to create an application timer (Timer task).
0xC008000C	ERR_TCPIP_APPLICATION_TIMER_INIT_PACKET_FAILED Failed to initialize a packet of application timer (Timer task).
0xC008000D	ERR_TCPIP_INVALID_STARTUP_PARAMETER_SOCKET_MAX_CNT Invalid Startup Parameter ulSocketMaxCnt.
0xC008000E	ERR_TCPIP_INVALID_STARTUP_PARAMETER_POOL_ELEM_CNT Invalid Startup Parameter ulPoolElemCnt.
0xC008000F	ERR_TCPIP_INVALID_STARTUP_PARAMETER_EDD_OUT_BUF_MAX_CNT Invalid Startup Parameter ulEddOutBufMaxCnt.
0xC0080010	ERR_TCPIP_INVALID_STARTUP_PARAMETER_ARP_CACHE_SIZE Invalid Startup Parameter ulArpCacheSize.
0xC0080011	ERR_TCPIP_INVALID_STARTUP_PARAMETER_QUE_FREE_ELEM_CNT Invalid Startup Parameter ulQueFreeElemCnt.
0xC0080012	ERR_TCPIP_INVALID_STARTUP_PARAMETER_TCP_CYCLE_EVENT Invalid Startup Parameter ulTcpCycleEvent.
0xC0080014	ERR_TCPIP_INVALID_STARTUP_PARAMETER_QUE_ELEM_CNT_AP Invalid Startup Parameter ulQueElemCnt.
0xC0080015	ERR_TCPIP_INVALID_STARTUP_PARAMETER_EDD_QUE_POOL_ELEM_CNT Invalid Startup Parameter ulEddQuePoolElemCnt.
0xC0080016	ERR_TCPIP_INVALID_STARTUP_PARAMETER_START_FLAGS Invalid Startup Parameter ulStartFlags. Unknown flags are set.
0xC0080017	ERR_TCPIP_INVALID_STARTUP_PARAMETER_EDD_NAME Invalid Startup Parameter pszEddName.
0xC0080018	ERR_TCPIP_INVALID_STARTUP_PARAMETER_EIF_EDD_NAME Invalid Startup Parameter EIF pszEddName.
0xC0080019	ERR_TCPIP_INVALID_STARTUP_PARAMETER_EIF_EDD_INSTANCE Invalid Startup Parameter EIF ulEddInstance.
0xC008001A	ERR_TCPIP_INVALID_STARTUP_PARAMETER_EIF_ETH_INTF_NAME Invalid Startup Parameter EIF pszEifEthIntfName.
0xC008001B	ERR_TCPIP_INVALID_STARTUP_PARAMETER_EIF_MODE Invalid Startup Parameter EIF ulEifMode.
0xC008001C	ERR_TCPIP_INVALID_STARTUP_PARAMETER_EIF_PORT_RANGE Invalid Startup Parameter EIFs ulEifPortStart, ulEifPortEnd.

Hexadecimal value	Definition and description
0xC008001D	ERR_TCPIP_INVALID_STARTUP_PARAMETER{EIF_PORT_NMB Invalid Startup Parameter EIF ulEIFPortNmb.
0xC008001E	ERR_TCPIP_INVALID_STARTUP_PARAMETER_ARP_TIMEOUT_CACHE Invalid Startup Parameter ulArpTimeoutCache.
0xC008001F	ERR_TCPIP_INVALID_STARTUP_PARAMETER{EIF_FLAGS Invalid Startup Parameter EIF ulEIFFlags.
0xC0080020	ERR_TCPIP_INVALID_STARTUP_PARAMETER_HW_NAME_NETX Invalid Startup Parameter pszHwNameNetX.
0xC0080032	ERR_TCP_ERR_INIT_IP_TASK_NOT_READY The IP layer is not ready.
0xC0080034	ERR_TCP_ERR_INIT_IP_TASK_FAILED The initialization of IP layer has failed.
0x80080043	WARN_TCP_ERR_INIT_TPIF_INIT_REQ_PCKT Warning: A pending application packet has discarded (because of a new application packet).
0xC0080044	ERR_TCP_ERR_INIT_OS_CYCLETIME The configured operating system cycle time is out of range (0.1 ms ... 20 ms).
0xC0080045	ERR_TCP_ERR_INIT_OS_AND_TCPUDP_CYCLETIME The combination of configured operating system cycle time and TCP/IP stacks cycle time (startup-parameter ulTcpCycleEvent) is not possible. The operating system cycle time must be smaller or equal than the TCP/IP stacks cycle time.
0xC0080070	ERR_TCP_ERR_SOCKET_INVALID The socket handle ulDestId is invalid. A further reason for this error: The command (Mode) is not applicable on this socket type (TCP/UDP).
0xC0080074	ERR_TCP_ERR_OPTION_NOT_SUPPORTED_TCP_CMD_SEND The option parameter ulOptions in command TCPIP_TCP_CMD_SEND_REQ is invalid.
0xC0080075	ERR_TCP_ERR_PARAMETER_INVALID_TCP_UDP_CMD_SET SOCK_OPTION The parameter in command TCPIP_TCP_UDP_CMD_SET SOCK_OPTION_REQ is invalid.
0xC0080078	ERR_TCP_ERR_CONN_CLOSED The connection has closed (Graceful close).
0xC0080079	ERR_TCP_ERR_CONN_RESET The Connection has closed by reset (Hard close).
0xC008007a	ERR_TCP_ERR_PROTOCOL_UNKNOWN_TCP_UDP_CMD_OPEN The protocol parameter ulProtocol in command TCPIP_TCP_UDP_CMD_OPEN_REQ is invalid.
0xC008007b	ERR_TCP_ERR_NO_SOCKETS_TCP_UDP_CMD_OPEN Command TCPIP_TCP_UDP_CMD_OPEN_REQ: There are no socket handles available.
0xC0080085	ERR_TCP_ERR_MAX_GROUP_EXCEEDED_TCP_UDP_CMD_SET SOCK_OPTION 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).
0xC0080086	ERR_TCP_ERR_DISCARD_KEPT_REQ_CMD 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!
0xC0080095	ERR_TCP_ERR_UNEXP_ANSWER An unexpected/unknown confirmation command has received.
0xC00800c8	ERR_TCP_TASK_F_NOT_INITIALIZED The task is not initialized.
0xC00800c9	ERR_TCP_TASK_F_BUSY The task is busy (intern).

Hexadecimal value	Definition and description
0xC0080101	ERR_TCP_ERR_IP_ADDR_INVALID_TCP_UDP_CMD_OPEN The IP address parameter ulpAddr in command TCPIP_TCP_UDP_CMD_OPEN_REQ is invalid. The parameter ulpAddr must be zero (0.0.0.0) or equal to the TCP/IP stacks own IP address.
0xC0080102	ERR_TCP_ERR_IP_ADDR_INVALID_TCP_CMD_CONNECT The IP address parameter ulpAddr in command TCPIP_TCP_CMD_CONNECT_REQ is invalid. The parameter ulpAddr must be unequal to the TCP/IP stacks own IP address.
0xC0080103	ERR_TCP_ERR_IP_ADDR_INVALID_UDP_CMD_SEND The IP address parameter ulpAddr in command TCPIP_UDP_CMD_SEND_REQ is invalid or does not match to the local subnetwork. This error occurs, if the IP address is zero (0.0.0.0) or equal to the address of the local subnet.
0xC0080104	ERR_TCP_ERR_IP_ADDR_INVALID_TCP_UDP_CMD_SET_SOCKET_OPTION The parameter ulMulticastGroup (ulMode = TCP_SOCKET_ADD_MEMBERSHIP or TCP_SOCKET_DROP_MEMBERSHIP) in command TCPIP_TCP_UDP_CMD_SET_SOCKET_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).
0xC0080105	ERR_TCP_ERR_IP_ADDR_INVALID_TCP_UDP_CMD_BIND The IP address parameter ulpAddr in command TCPIP_TCP_UDP_CMD_BIND_REQ is invalid. The parameter ulpAddr must be zero (0.0.0.0) or equal to the TCP/IP stacks own IP address.
0xC0080106	ERR_TCP_ERR_IP_ADDR_INVALID_NO_GATEWAY The IP address parameter ulpAddr is invalid, because there is no gateway configured. The parameter ulpAddr must be inside the local network.
0xC0080110	ERR_TCP_ERR_PORT_INVALID_TCP_UDP_CMD_OPEN 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.
0xC0080111	ERR_TCP_ERR_PORT_INVALID_TCP_CMD_CONNECT 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.
0xC0080112	ERR_TCP_ERR_PORT_INVALID_UDP_CMD_SEND 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.
0xC0080113	ERR_TCP_ERR_PORT_INVALID_TCP_UDP_CMD_BIND The port parameter ulPort in command TCPIP_TCP_UDP_CMD_BIND_REQ is invalid or not available. The parameter ulPort must be in range 0 ... 65535.
0xC0080121	ERR_TCP_ERR_TIMEOUT_INVALID_TCP_UDP_CMD_CLOSE 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.
0xC0080122	ERR_TCP_ERR_TIMEOUT_INVALID_TCP_UDP_CMD_CLOSE_ALL The timeout parameter ulTimeout in command TCPIP_TCP_UDP_CMD_CLOSE_ALL_REQ is invalid.
0xC0080123	ERR_TCP_ERR_TIMEOUT_INVALID_TCP_CMD_WAIT_CONNECT The timeout parameter ulTimeoutSend and/or ulTimeoutListen in command TCPIP_TCP_CMD_WAIT_CONNECT_REQ is invalid.
0xC0080124	ERR_TCP_ERR_TIMEOUT_INVALID_TCP_CMD_CONNECT The timeout parameter ulTimeoutSend and/or ulTimeoutConnect in command TCPIP_TCP_CMD_CONNECT_REQ is invalid.
0xC0080125	ERR_TCP_ERR_TIMEOUT_INVALID_TCP_UDP_CMD_SET_SOCKET_OPTION The timeout parameter ulTimeoutSend (ulMode = TCP_SOCKET_SEND_TIMEOUT) or ulTimeoutInactive (ulMode = TCP_SOCKET_INACTIVE_TIMEOUT) or ulTimeoutKeepAlive (ulMode = TCP_SOCKET_KEEPA_LIVE_TIMEOUT) in command TCPIP_TCP_UDP_CMD_SET_SOCKET_OPTION_REQ is invalid.
0xC0080132	ERR_TCP_ERR_MODE_UNKNOWN_TCP_UDP_CMD_SET_SOCKET_OPTION The mode parameter ulMode in command TCPIP_TCP_UDP_CMD_SET_SOCKET_OPTION_REQ is invalid.

Hexadecimal value	Definition and description
0xC0080133	ERR_TCP_ERR_MODE_UNKNOWN_TCP_UDP_CMD_GET_SOCKET_OPTION The mode parameter ulMode in command TCPIP_TCP_UDP_CMD_GET_SOCKET_OPTION_REQ is invalid.
0xC0080134	ERR_TCP_ERR_MODE_UNKNOWN_FATAL_DUMMY Internal fatal error in module TcpiPtcpHdlPckt.c!
0xC0080140	ERR_TCP_ERR_MAX_DATA_LEN_EXCEEDED_TCP_CMD_SEND The maximum TCP data count n in command TCPIP_TCP_CMD_SEND_REQ has exceeded. See parameter ulLen. The maximum value for n is TCPIP_MAX_TCP_DATA_CNT (1460).
0xC0080141	ERR_TCP_ERR_MAX_DATA_LEN_EXCEEDED_UDP_CMD_SEND The maximum UDP data count n in command TCPIP_UDP_CMD_SEND_REQ has exceeded. See parameter ulLen. The maximum value for n is TCPIP_MAX_UDP_DATA_CNT (1472).
0xC0080200	ERR_TCP_ERR_SOCKET_STATE_TCP_CMD_WAIT_CONNECT The command TCPIP_TCP_CMD_WAIT_CONNECT_REQ cannot be executed because the socket is in an inappropriate state.
0xC0080201	ERR_TCP_ERR_SOCKET_STATE_TCP_CMD_CONNECT The command TCPIP_TCP_CMD_CONNECT_REQ cannot be executed because the socket is in an inappropriate state.
0xC0080202	ERR_TCP_ERR_SOCKET_STATE_TCP_CMD_SEND The command TCPIP_TCP_CMD_SEND_REQ cannot be executed because the socket is in an inappropriate state.
0xC0080203	ERR_TCP_ERR_SOCKET_STATE_TCP_CMD_BIND The command TCPIP_TCP_UDP_CMD_BIND_REQ cannot be executed because the TCP socket is in an inappropriate state.
0xC0080210	ERR_TCP_ERR_NO_FREE_QUEUE_ELEMENT_TCP_CMD_SEND 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.
0xC0080211	ERR_TCP_ERR_NO_FREE_QUEUE_ELEMENT_UDP_CMD_SEND 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.
0xC0080212	ERR_TCP_ERR_NO_ETH_OUT_BUFFER_UDP_CMD_SEND The UDP send command TCPIP_UDP_CMD_SEND_REQ must be rejected because all outgoing Ethernet buffers are occupied.
0xC0080213	ERR_TCP_ERR_NO_FREE_RESOURCE_FOR_ARP_REQ_INTF 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.
0xC0080214	ERR_TCP_ERR_ETH_OUT_SEND_BUFFER The outgoing Ethernet buffer could not be sent. The reason of this error is normally a resource problem - there is no EDD buffer available.
0xC0080220	ERR_TCP_ERR_MCAST_CREATE Failed to create an IP Multicast group.
0xC0080301	ERR_TCP_ERR_DEST_UNREACHABLE_TCP_UDP_CMD_CLOSE Command TCPIP_TCP_UDP_CMD_CLOSE_REQ: The destination (host, network, or port) is unreachable.
0xC0080302	ERR_TCP_ERR_DEST_UNREACHABLE_TCP_UDP_CMD_CLOSE_ALL Command TCPIP_TCP_UDP_CMD_CLOSE_ALL_REQ: The destination (host, network, or port) is unreachable.

Hexadecimal value	Definition and description
0xC0080303	ERR_TCP_ERR_DEST_UNREACHABLE_TCP_CMD_WAIT_CONNECT Command TCPIP_TCP_CMD_WAIT_CONNECT_REQ: The destination (host, network, or port) is unreachable.
0xC0080304	ERR_TCP_ERR_DEST_UNREACHABLE_TCP_CMD_CONNECT Command TCPIP_TCP_CMD_CONNECT_REQ: The destination (host, network, or port) is unreachable.
0xC0080305	ERR_TCP_ERR_DEST_UNREACHABLE_UDP_CMD_SEND Command TCPIP_UDP_CMD_SEND_REQ: The destination (host, network, or port) is unreachable.
0xC0080311	ERR_TCP_ERR_TIMEOUT_TCP_UDP_CMD_CLOSE The TCP Close timeout has expired. A connection to the remote host could not be closed properly within this time. For this timeout, see command TCPIP_TCP_UDP_CMD_CLOSE_REQ, parameter ulTimeout.
0xC0080312	ERR_TCP_ERR_TIMEOUT_TCP_UDP_CMD_CLOSE_ALL The TCP Close timeout has expired. One or more connections to remote host(s) could not be closed properly within this time. For this timeout, see command TCPIP_TCP_UDP_CMD_CLOSE_ALL_REQ, parameter ulTimeout.
0xC0080313	ERR_TCP_ERR_TIMEOUT_TCP_CMD_WAIT_CONNECT The TCP Connect timeout has expired. No remote host has been connected within this time. For this timeout, see command TCPIP_TCP_CMD_WAIT_CONNECT_REQ, parameter ulTimeoutListen.
0xC0080314	ERR_TCP_ERR_TIMEOUT_TCP_CMD_CONNECT 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.
0xC0080315	ERR_TCP_ERR_TIMEOUT_TCP_CMD_SEND 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 48: TCP_UDP task packet status codes

3.4.3 EDD Task

Hexadecimal value	Definition and description
0xC00E0001	ERR_PNIO_EDD_PROCESS_END Return value of EDD_Scheduler_PreProcess().
0xC00E0002	ERR_PNIO_EDD_PARAM_INVALID_EDD Invalid parameter for EDD_Scheduler_Start_req().
0xC00EF001	ERR_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 49: EDD task

3.4.4 DRV EDD

Hexadecimal value	Definition and description
0xC00F0001	ERR_DRV_EDD_COMMAND_INVALID Invalid command received.

Table 50: DRV EDD packet status codes

3.4.5 UDP Debug Client

Hexadecimal value	Definition and description
0xC01B0001	ERR_DEBUG_CLIENT_COMMAND_INVALID Invalid command received.

Table 51: UDP Debug Client

3.4.6 Virtual Switch

Hexadecimal value	Definition and description
0xC0270001	ERR_VIRTUALSWITCH_COMMAND_INVALID Invalid command.
0xC0270002	ERR_VIRTUALSWITCH_PORT_ALREADY_REGISTERED Port parameter already defined by another port.
0xC0270003	ERR_VIRTUALSWITCH_OUT_OF_MEMORY Out of memory.
0xC0270004	ERR_VIRTUALSWITCH_INVALID_PORT_HANDLE Invalid port handle.
0xC0270005	ERR_VIRTUALSWITCH_INVALID_PORT_MODE Invalid port mode.
0xC0270006	ERR_VIRTUALSWITCH_TABLE_ALREADY_CREATED MAC routing table already created.
0xC0270007	ERR_VIRTUALSWITCH_TABLE_INSTANCE_NOT_PREDEFINED Named Virtual Switch Instance does not exist.
0xC0270008	ERR_VIRTUALSWITCH_NO_SUCH_NAME No such name.
0xC0270009	ERR_VIRTUALSWITCH_NAME_EXISTS_ALREADY Name exists already.

Table 52: VirtualSwitch error codes

3.4.7 Ethernet Interface Task

Hexadecimal value	Definition and description
0xC05D0001	ERR_ETH_INTF_COMMAND_INVALID Invalid command received.
0xC05D0002	ERR_ETH_INTF_CONFIG_LOCK Configuration is locked.
0xC05D0003	ERR_ETH_INTF_INVALID_PACKET_LENGTH Invalid packet length.
0xC05D0004	ERR_ETH_INTF_INVALID_MODE Invalid mode in request.
0xC05D0005	ERR_ETH_INTF_PARAM_AUTO_NEGOTIATION_PORT_0 Invalid parameter for auto-negotiation port 0.
0xC05D0006	ERR_ETH_INTF_PARAM_AUTO_NEGOTIATION_PORT_1 Invalid parameter for auto-negotiation port 1.
0xC05D0007	ERR_ETH_INTF_PARAM_DUPLEX_MODE_PORT_0 Invalid parameter for duplex mode port 0.
0xC05D0008	ERR_ETH_INTF_PARAM_DUPLEX_MODE_PORT_1 Invalid parameter for duplex mode port 1.
0xC05D0009	ERR_ETH_INTF_PARAM_TRANSMISSION_RATE_PORT_0 Invalid parameter for transmission rate port 0.
0xC05D000A	ERR_ETH_INTF_PARAM_TRANSMISSION_RATE_PORT_1 Invalid parameter for transmission rate port 1.
0xC05D000B	ERR_ETH_INTF_PARAM_AUTO_CROSSOVER_PORT_0 Invalid parameter for auto cross-over port 0.
0xC05D000C	ERR_ETH_INTF_PARAM_AUTO_CROSSOVER_PORT_1 Invalid parameter for auto cross-over port 1.
0xC05D000D	ERR_ETH_INTF_NO_CONFIGURATION Task is not configured.
0xC05D000E	ERR_ETH_INTF_APP_NOT_REGISTERED No application registered.
0xC05D000F	ERR_ETH_INTF_APP_SET_NOT_READY Application set not ready.
0xC05D0010	ERR_ETH_INTF_LINK_DOWN No Ethernet link.
0xC05D0011	ERR_ETH_INTF_GET_SEND_BUFFER Failed to get send buffer.
0xC05D0012	ERR_ETH_INTF_SEND_FRAME Failed to send Ethernet frame.
0xC05D0013	ERR_ETH_INTF_SET_DRV_EDD_CFG Failed to set driver EDD configuration.
0xC05D0014	ERR_ETH_INTF_INVALID_ETH_PORT Invalid parameter for Ethernet port.
0xC05DFFFF	ERR_ETH_INTF_UNKNOWN_ERROR Unknown error detected.

Table 53: Ethernet Interface Task

3.4.8 TCP/IP Socket Interface

Hexadecimal value	Definition and description
0xC0740001	ERR_TCPIP_SOCKIF_COMMAND_INVALID Invalid command received.
0xC0740002	ERR_TCPIP_SOCKIF_TCP_UDP_IDENTIFY_FAILED Failed to identify the TCP_UDP task.
0xC0740003	ERR_TCPIP_SOCKIF_TCP_UDP_QUEUE_IDENTIFY_FAILED The queue identification of TCP_UDP task queue has failed.
0xC0740004	ERR_TCPIP_SOCKIF_SEMAPHORE_CREATION_FAILED The semaphore creation has failed.

Table 54: TCP/IP Socket Interface packet status codes

3.4.9 TCP Application Task

Hexadecimal value	Definition and description
0xC0940001	ERR_TCPIP_TCP_AP_SOCKET_NOT_CONNECTED Socket not connected.

Table 55: TCP/IP: TCP Application Task

3.4.10 Socket API

Hexadecimal value	Definition and description
0xC0C90001	ERR_SOCKET_UNSUPPORTED_SOCKET Unsupported socket domain, type and protocol combination.
0xC0C90002	ERR_SOCKET_INVALID_SOCKET_HANDLE Invalid socket handle.
0xC0C90003	ERR_SOCKET_SOCKET_CLOSED Socket was closed.
0xC0C90004	ERR_SOCKET_INVALID_OP The command is invalid for the particular socket.
0xC0C90005	ERR_SOCKET_INVALID_ADDRESS_FAMILY An invalid address family was used for this socket
0xC0C90006	ERR_SOCKET_IN_USE The specified address is already in use.
0xC0C90007	ERR_SOCKET_HUP The remote side closed the connection
0xC0C90008	ERR_SOCKET_WOULDBLOCK The operation would block
0xC0C90009	ERR_SOCKET_ROUTE No IP route to destination address.
0xC0C9000A	ERR_SOCKET_IS_CONNECTED IP socket already connected.
0xC0C9000B	ERR_SOCKET_CONNECTION_ABORTED TCP connection aborted.
0xC0C9000C	ERR_SOCKET_CONNECTION_RESET TCP connection reset.
0xC0C9000D	ERR_SOCKET_CONNECTION_CLOSED TCP connection closed.
0xC0C9000E	ERR_SOCKET_NOT_CONNECTED IP Socket not connected.
0xC0C9000F	ERR_SOCKET_NETWORK_INTERFACE Low-level network interface error.

Table 56: Socket API error codes

3.4.11 LWIP Task

Hexadecimal value	Definition and description
0xC0E90001	ERR_LWIP_OUT_OF_MEMORY IP protocol out of memory.
0xC0E90002	ERR_LWIP_NO_BUFFER No IP protocol buffer available.
0xC0E90003	ERR_LWIP_TIMEOUT LWIP timeout.
0xC0E90004	ERR_LWIP_ROUTE No IP route to destination address.
0xC0E90005	ERR_LWIP_IN_PROGRESS IP operation already in progress.
0xC0E90006	ERR_LWIP_ILLEGAL_VALUE Illegal value.
0xC0E90007	ERR_LWIP_WOULD_BLOCK IP operation would block.
0xC0E90008	ERR_LWIP_ADDRESS_IN_USE IP address already in use.
0xC0E90009	ERR_LWIP_IS_CONNECTED IP socket already connected.
0xC0E9000A	ERR_LWIP_CONNECTION_ABORTED TCP connection aborted.
0xC0E9000B	ERR_LWIP_CONNECTION_RESET TCP connection reset.
0xC0E9000C	ERR_LWIP_CONNECTION_CLOSED TCP connection closed.
0xC0E9000D	ERR_LWIP_NOT_CONNECTED IP Socket not connected.
0xC0E9000E	ERR_LWIP_INVALID_ARGUMENT Invalid IP operation argument.
0xC0E9000F	ERR_LWIP_NETWORK_INTERFACE Low-level network interface error.
0xC0E90100	ERR_LWIP_UNSPECIFIC Unspecific error.
0xC0E90101	ERR_LWIP_CONFIG_ARP_CACHE_SIZE Invalid ARP cache size configured.
0xC0E90102	ERR_LWIP_UNSUPPORTED_SOCKET_OPERATION An unsupported socket operation was invoked.

Table 57: LWIP Task

3.5 EtherNet/IP

3.5.1 Ethernet/IP Encapsulation

Hexadecimal value	Definition and description
0xC01E0001	ERR_EIP_ENCAP_COMMAND_INVALID Invalid command received.
0xC01E0002	ERR_EIP_ENCAP_NOT_INITIALIZED Encapsulation layer is not initialized.
0xC01E0003	ERR_EIP_ENCAP_OUT_OF_MEMORY System is out of memory.
0xC01E0010	ERR_EIP_ENCAP_OUT_OF_PACKETS Task runs out of empty packets at the local packet pool.
0xC01E0011	ERR_EIP_ENCAP_SEND_PACKET Sending a packet failed.
0xC01E0012	ERR_EIP_ENCAP_SOCKET_OVERRUN No free socket is available.
0xC01E0013	ERR_EIP_ENCAP_INVALID_SOCKET Socket ID is invalid.
0xC01E0014	ERR_EIP_ENCAP_CEP_OVERRUN Connection could not be open. No resource for a new Connection Endpoint available.
0xC01E0015	ERR_EIP_ENCAP_UCMM_OVERRUN Message could not be sent. All Unconnect Message Buffers are in use.
0xC01E0016	ERR_EIP_ENCAP_TRANSP_OVERRUN Connection could not be opened. All transports are in use.
0xC01E0017	ERR_EIP_ENCAP_UNKNOWN_CONN_TYP Received Message include an unknown connection type.
0xC01E0018	ERR_EIP_ENCAP_CONN_CLOSED Connection was closed.
0xC01E0019	ERR_EIP_ENCAP_CONN_RESETEd Connection reset from remote device.
0x001E001A	SUCCESS_EIP_ENCAP_CONN_UNREGISTER We closed the connection successful. With an unregister command.
0xC01E001B	ERR_EIP_ENCAP_CONN_STATE Wrong connection state for this service.
0xC01E001C	ERR_EIP_ENCAP_CONN_INACTIV Encapsulation session was deactivated.
0xC01E001D	ERR_EIP_ENCAP_INVALID_IPADDR Invalid IP address received.
0xC01E001E	ERR_EIP_ENCAP_INVALID_TRANSP Invalid transport type.
0xC01E001F	ERR_EIP_ENCAP_TRANSP_INUSE Transport is still in use.
0xC01E0020	ERR_EIP_ENCAP_TRANSP_CLOSED Transport is closed.
0xC01E0021	ERR_EIP_ENCAP_INVALID_MSGID The received message has an invalid message ID.
0xC01E0022	ERR_EIP_ENCAP_INVALID_MSG Invalid encapsulation message received.

Hexadecimal value	Definition and description
0xC01E0023	ERR_EIP_ENCAP_INVALID_MSGLEN Received message with invalid length.
0xC01E0030	ERR_EIP_ENCAP_CL3_TIMEOUT Class 3 connection runs into timeout.
0xC01E0031	ERR_EIP_ENCAP_UCMM_TIMEOUT Unconnected message gets a timeout.
0xC01E0032	ERR_EIP_ENCAP_CL1_TIMEOUT Timeout of a class 3 connection.
0x801E0033	WARN_EIP_ENCAP_TIMEOUT Encapsulation service is finished by timeout.
0xC01E0034	ERR_EIP_ENCAP_CMDRUNNING Encapsulation service is still running.
0xC01E0035	ERR_EIP_ENCAP_NO_TIMER No empty timer available.
0xC01E0036	ERR_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	ERR_EIP_ENCAP_INVALID_DATA_AREA The parameter of the data area are invalid. Please check length and offset.
0xC01E0038	ERR_EIP_ENCAP_INVALID_DATA_LEN Packet length is invalid. Please check length of the packet.
0xC01E0039	ERR_EIP_ENCAP_TASK_RESETING EtherNet/IP Encapsulation Layer runs a reset.

Table 58: Ethernet/IP Encapsulation

3.5.2 Ethernet/IP Object

Hexadecimal value	Definition and description
0xC01F0001	ERR_EIP_OBJECT_COMMAND_INVALID Invalid command received.
0xC01F0002	ERR_EIP_OBJECT_OUT_OF_MEMORY System is out of memory.
0xC01F0003	ERR_EIP_OBJECT_OUT_OF_PACKETS Task runs out of empty packets at the local packet pool.
0xC01F0004	ERR_EIP_OBJECT_SEND_PACKET Sending a packet failed.
0xC01F0010	ERR_EIP_OBJECT_AS_ALLREADY_EXIST Assembly instance already exist.
0xC01F0011	ERR_EIP_OBJECT_AS_INVALID_INST Invalid Assembly Instance.
0xC01F0012	ERR_EIP_OBJECT_AS_INVALID_LEN Invalid Assembly length.
0xC01F0020	ERR_EIP_OBJECT_CONN_OVERRUN No free connection buffer available
0xC01F0021	ERR_EIP_OBJECT_INVALID_CLASS Object class is invalid.
0xC01F0022	ERR_EIP_OBJECT_SEGMENT_FAULT Segment of the path is invalid.
0xC01F0023	ERR_EIP_OBJECT_CLASS_ALLREADY_EXIST Object Class is already used.
0xC01F0024	ERR_EIP_OBJECT_CONNECTION_FAIL Connection failed.
0xC01F0025	ERR_EIP_OBJECT_CONNECTION_PARAM Unknown format of connection parameter
0xC01F0026	ERR_EIP_OBJECT_UNKNOWN_CONNECTION Invalid connection ID.
0xC01F0027	ERR_EIP_OBJECT_NO_OBJ_RESSOURCE No resource for creating a new class object available.
0xC01F0028	ERR_EIP_OBJECT_ID_INVALID_PARAMETER Invalid request parameter.
0xC01F0029	ERR_EIP_OBJECT_CONNECTION_FAILED General connection failure. See also General Error Code and Extended Error Code for more details.
0xC01F0030	ERR_EIP_OBJECT_PACKET_LEN Packet length of the request is invalid.
0xC01F0031	ERR_EIP_OBJECT_READONLY_INST Access denied. Instance is read only.
0xC01F0032	ERR_EIP_OBJECT_DPM_USED DPM address is already used by another instance.
0xC01F0033	ERR_EIP_OBJECT_SET_OUTPUT_RUNNING Set Output command is already running.
0xC01F0034	ERR_EIP_OBJECT_TASK_RESETING EtherNet/IP Object Task is running a reset.
0xC01F0035	ERR_EIP_OBJECT_SERVICE_ALLREADY_EXIST The service to be registered already exists.

Hexadecimal value	Definition and description
0xC01F0036	ERR_EIP_OBJECT_DUPLICATE_SERVICE The service is rejected by the application due to a duplicate sequence count.
0xC01F0037	ERR_EIP_TIMER_INVALID_HANDLE Timer function is called with invalid timer handle.
0xC01F0038	ERR_EIP_INVALID_STACK_MODE Setting the operation mode is called with an undefined mode value.
0xC01F0039	ERR_EIP_OUT_OF_ASSEMBLIES No assembly instances free to open a connection.
0xC01F003A	ERR_EIP_CALLBACK_REQUIERED Function needs callback to provide result data.
0xC01F003B	ERR_EIP_SERVICE_NOT_SUPPORTED This service is at the actual configuration not supported.
0xC01F003C	ERR_EIP_SERVICE_RUNNING This service is running and cannot be started twice.
0xC01F003D	EIP_ERR_CC_DATA_IMAGE_ERROR The address of the data is not at the range of the data image.
0xC01F003E	EIP_ERR_CC_UNKNOWN_FORMAT The format of the data mapping is unknown.
0xC01F003F	ERR_EIP_CONNECTION_POINT_CREATE Creating the connection point failed.

Table 59: Ethernet/IP Object

3.5.3 EtherNet/IP Application Task

Hexadecimal value	Definition and description
0xC0590001	ERR_EIP_APS_COMMAND_INVALID Invalid command received.
0xC0590002	ERR_EIP_APS_PACKET_LENGTH_INVALID Invalid packet length.
0xC0590003	ERR_EIP_APS_PACKET_PARAMETER_INVALID Parameter of the packet are invalid.
0xC0590004	ERR_EIP_APS_TCP_CONFIG_FAIL Configuration of TCP/IP failed.
0xC0590005	ERR_EIP_APS_CONNECTION_CLOSED Existing connection is closed.
0xC0590006	ERR_EIP_APS_ALREADY_REGISTERED An application is already registered.
0xC0590007	ERR_EIP_APS_ACCESS_FAIL Command is not allowed.
0xC0590008	ERR_EIP_APS_STATE_FAIL Command not allowed at this state.
0xC0590009	ERR_EIP_APS_IO_OFFSET_INVALID Invalid offset for I/O data.
0xC059000A	ERR_EIP_APS_FOLDER_NOT_FOUND Folder for database not found.
0xC059000B	ERR_EIP_APS_CONFIG_DBM_INVALID Configuration database invalid.
0xC059000C	ERR_EIP_APS_NO_CONFIG_DBM Configuration database not found.
0xC059000D	ERR_EIP_APS_NWID_DBM_INVALID Network database invalid.
0xC059000E	ERR_EIP_APS_NO_NWID_DBM Network database not found.
0xC059000F	ERR_EIP_APS_NO_DBM No database found.
0xC0590010	ERR_EIP_APS_NO_MAC_ADDRESS_AVAILABLE No MAC address available.
0xC0590011	ERR_EIP_APS_INVALID_FILESYSTEM Access to file system failed.
0xC0590012	ERR_EIP_APS_NUM_AS_INSTANCE_EXCEEDS Maximum number of assembly instances exceeds.
0xC0590013	ERR_EIP_APS_CONFIGBYDATABASE Stack is already configured via database.

Table 60: EtherNet/IP Application Task

3.5.4 EtherNet/IP Application Task

Hexadecimal value	Definition and description
0xC05A0001	ERR_EIP_APM_COMMAND_INVALID Invalid command received.
0xC05A0002	ERR_EIP_APM_PACKET_LENGTH_INVALID Invalid packet length.
0xC05A0003	ERR_EIP_APM_PACKET_PARAMETER_INVALID Parameter of the packet are invalid.
0xC05A0004	ERR_EIP_APM_TCP_CONFIG_FAIL Configuration of TCP/IP failed.
0xC05A0005	ERR_EIP_APM_CONNECTION_CLOSED Existing connection is closed.
0xC05A0006	ERR_EIP_APM_ALREADY_REGISTERED An application is already registered.
0xC05A0007	ERR_EIP_APM_ACCESS_FAIL Command is not allowed.
0xC05A0008	ERR_EIP_APM_STATE_FAIL Command not allowed at this state.
0xC05A0009	ERR_EIP_APM_NO_CONFIG_DPM Database config.dpm not found.
0xC05A000A	ERR_EIP_APM_NO_NWID_DPM Database nwid.dpm not found.
0xC05A000B	ERR_EIP_APM_CONFIG_DPM_INVALID Database config.dpm invalid.
0xC05A000C	ERR_EIP_APM_NWID_DPM_INVALID Database nwid.dpm invalid.
0xC05A000D	ERR_EIP_APM_FOLDER_NOT_FOUND Channel folder not found.
0xC05A000E	ERR_EIP_APM_IO_OFFSET_INVALID Invalid dual port memory I/O offset.
0xC05A000F	ERR_EIP_APM_DPM_TOO_MANY_SLAVES_CONFIGURED Too many slaves configured.

Table 61: EtherNet/IP Application Task

3.5.5 EtherNet/IP DLR Task

Hexadecimal value	Definition and description
0xC0950001	ERR_EIP_DLR_COMMAND_INVALID Invalid command received.
0xC0950002	ERR_EIP_DLR_NOT_INITIALIZED DLR task is not initialized.
0xC0950003	ERR_EIP_DLR_FNC_API_INVALID_HANDLE Invalid DLR handle at API function call.
0xC0950004	ERR_EIP_DLR_INVALID_ATTRIBUTE Invalid DLR object attribute.
0xC0950005	ERR_EIP_DLR_INVALID_PORT Invalid port.
0xC0950006	ERR_EIP_DLR_LINK_DOWN Port link is down.
0xC0950007	ERR_EIP_DLR_MAX_NUM_OF_TASK_INST_EXCEEDED Maximum number of EthernetIP task instances exceeded.
0xC0950008	ERR_EIP_DLR_INVALID_TASK_INST Invalid task instance.
0xC0950009	ERR_EIP_DLR_CALLBACK_NOT_REGISTERED Callback function is not registered.
0xC095000A	ERR_EIP_DLR_WRONG_DLR_STATE Wrong DLR state.
0xC095000B	ERR_EIP_DLR_NOT_CONFIGURED_AS_SUPERVISOR Not configured as supervisor.
0xC095000C	ERR_EIP_DLR_INVALID_CONFIG_PARAM Configuration parameter is invalid.
0xC095000D	ERR_EIP_DLR_NO_STARTUP_PARAM_AVAIL No startup parameters available.

Table 62: EtherNet/IP DLR Task

3.5.6 EtherNet/IP PTP Task

Hexadecimal value	Definition and description
0xC0BD0001	ERR_PTP_UNSUPPORTED_STATE PTP state is not supported.
0xC0BD0002	ERR_PTP_UNKNOWN_STATE PTP state has an invalid value.
0xC0BD0003	ERR_PTP_STATE_ERROR Wrong state to perform the transaction.
0xC0BD0004	ERR_PTP_FRAME_TOO_SHORT The PTP frame to be processed is too short.
0xC0BD0005	ERR_PTP_UNSUPPORTED_PTP_VERSION The PTP version that is indicated by the PTP frame is not supported.
0xC0BD0006	ERR_PTP_UNEXPECTED_SOURCE_CLOCK_IDENTITY A PTP frame with an unexpected source clock identity was received.
0xC0BD0007	ERR_PTP_UNEXPECTED_TARGET_CLOCK_IDENTITY A PTP frame with an unexpected target clock identity was received.
0xC0BD0008	ERR_PTP_UNEXPECTED_DOMAIN_NUMBER A PTP frame with an unexpected domain number was received.
0xC0BD0009	ERR_PTP_UNEXPECTED_TARGET_PORT_NUMBER A PTP frame with an unexpected target port number was received.
0xC0BD000A	ERR_PTP_UNSUPPORTED_MANAGEMENT_ACTION Management action not supported.
0xC0BD000B	ERR_PTP_UNSUPPORTED_INITIALIZATION_KEY Initialization key not supported.
0xC0BD000C	ERR_PTP_UNKNOWN_COMMAND Unknown command.
0xC0BD000D	ERR_PTP_INVALID_HANDLE Invalid handle.
0xC0BD000E	ERR_PTP_INVALID_LENGTH_OF_PTP_PARAMETER Invalid length of PTP parameter.
0xC0BD000F	ERR_PTP_FRAME_TOO_LONG The PTP frame to be processed is too long.

Table 63: EtherNet/IP PTP Task

3.5.7 EtherNet/IP DLR IRQ Task

Hexadecimal value	Definition and description
0xC0BE0001	ERR_EIP_DLR_IRQ_INVALID_PARAMETER Invalid parameter received.

Table 64: EtherNet/IP DLR IRQ Task

3.6 Open Modbus/TCP

3.6.1 Open Modbus/TCP interface

Hexadecimal value	Definition and description
0xC0600002	ERR_OMB_IF_SEND_IP_SET_CONFIG_FAILED Failed to forward the SET_CONFIG information to TCP_UDP task (because of a resource problem).
0xC0600003	ERR_OMB_IF_SYSTEM_FUNCTION_CODE System error: Wrong function code.
0xC0600004	ERR_OMB_IF_MOD_MEM_MOD_START_ADR IO mode: Wrong Modbus start address.
0xC0600005	ERR_OMB_IF_MOD_MEM_LEN IO mode: Wrong length of Memory map.
0xC0600006	ERR_OMB_IF_MOD_MEM_START_MEM_OFF IO mode: Wrong start byte offset in memory map.
0xC0600007	ERR_OMB_IF_MOD_MEM_SYSTEM_ERROR IO mode: System error.
0xC0600008	ERR_OMB_IF_INVALID_STARTUP_PARAMETER_QUE_ELEM_CNT Invalid Startup Parameter ulQueueElemCnt.
0xC0600009	ERR_OMB_IF_INVALID_STARTUP_PARAMETER_POOL_ELEM_CNT Invalid Startup Parameter ulPoolElemCnt.
0xC060000A	ERR_OMB_IF_INVALID_STARTUP_PARAMETER_START_FLAGS Invalid Startup Parameter ulStartFlags.
0xC060000B	ERR_OMB_IF_INVALID_STARTUP_PARAMETER_OMB_CYCLE_EVENT Invalid Startup Parameter ulOmbCycleEvent.
0xC060000C	ERR_OMB_IF_APPLICATION_TIMER_CREATE_FAILED Failed to create an application timer (Timer task).
0xC060000D	ERR_OMB_IF_APPLICATION_TIMER_INIT_PACKET_FAILED Failed to initialize a packet of application timer (Timer task).
0xC060000E	ERR_OMB_IF_TCP_UDP_IDENTIFY_FAILED Failed to identify the TCP_UDP task.
0xC060000F	ERR_OMB_IF_TCP_UDP_QUEUE_IDENTIFY_FAILED The queue identification of TCP_UDP task queue has failed.
0xC0600010	ERR_OMB_IF_BUFFER_QUEUE_CREATE_FAILED Creation of buffer queue failed.
0xC0600012	ERR_OMB_IF_FLAGS_VALUE Invalid parameter 'Flags' (ulFlags).
0xC0600034	ERR_OMB_IF_SERVER_CONNECT_VALUE Invalid parameter 'Open Server Sockets' (ulOpenServerSockets).
0xC0600035	ERR_OMB_IF_ANSWER_TIMEOUT_VALUE Invalid parameter 'Answer Timeout' (ulAnswerTimeout).
0xC0600036	ERR_OMB_IF_OPEN_TIMEOUT_VALUE Invalid parameter 'Omb Open Time' (ulOmbOpenTime).
0xC0600037	ERR_OMB_IF_MODE_VALUE Invalid parameter 'Mode' (ulMode).
0xC0600038	ERR_OMB_IF_SEND_TIMEOUT_VALUE Invalid parameter 'Send Timeout' (ulSendTimeout).

Hexadecimal value	Definition and description
0xC0600039	ERR_OMB_IF_CONNECT_TIMEOUT_VALUE Invalid parameter 'Connect Timeout' (ulConnectTimeout).
0xC060003A	ERR_OMB_IF_CLOSE_TIMEOUT_VALUE Invalid parameter 'Close Timeout' (ulCloseTimeout).
0xC060003B	ERR_OMB_IF_SWAB_VALUE Invalid parameter 'Swap' (ulSwap).
0xC060003C	TLR_E_OMB_OMBTASK_ERR_INIT_TCP_TASK_NOT_READY This error code is deprecated. (TCP_UDP task not ready)
0xC0600070	ERR_OMB_IF_ERR_ANSWER TCP_UDP task answered with an error.
0xC0600071	ERR_OMB_IF_ERR_STATE No socket in specific status found.
0xC0600072	ERR_OMB_IF_ERR_VALUE Invalid value in command.
0xC0600073	ERR_OMB_IF_ERR_TCP_TASK_STATE Error in TCP_UDP task state.
0xC0600074	ERR_OMB_IF_ERR_MODBUS Error in Modbus telegram.
0xC0600075	ERR_OMB_IF_ERR_NO_SOCKET No free and unused socket found.
0xC0600076	ERR_OMB_IF_ERR_UNKNOWN_SOCKET TCP_UDP command for an unknown socket received.
0xC0600077	ERR_OMB_IF_ERR_TIMEOUT The timeout for the Client-Job is expired. Timeout-Count starts after target has received the command.
0xC0600078	ERR_OMB_IF_ERR_UNEXPECTED_CLOSE Socket was unexpectedly closed.
0xC0600079	ERR_OMB_IF_USER_NOT_READY The User is not ready (not registered).
0xC060007A	ERR_OMB_IF_NO_SOCKET_AVAILABLE OMB task is not able to open sockets (TCP_UDP task is not ready).
0xC060007C	ERR_OMB_IF_ERR_IP_CONFIG TCP_UDP task is in configuration status.
0xC060007D	ERR_OMB_IF_PLC_TASK_NOT_INITIALIZED No dual-port memory access.
0xC060007E	ERR_OMB_IF_SEVER_SOCKET_CLOSED Server Socket was closed before the answer is received.
0xC06000A1	ERR_OMB_IF_DEVICE_ADR Invalid device address (IP address).
0xC06000A5	ERR_OMB_IF_DATA_CNT Invalid Data count.
0xC06000A7	ERR_OMB_IF_FUNCTION Wrong Function code. Function code is not supported.
0xC0600100	ERR_OMB_IF_MOD_DATA_ADR IO mode: Wrong Modbus address. Modbus address is outside of Memory map.
0xC0600101	ERR_OMB_IF_MOD_DATA_CNT IO mode: Wrong Data count in conjunction with the Modbus address. The access area is outside of Memory map.

Hexadecimal value	Definition and description
0xC0600102	ERR_OMB_IF_MOD_FUNCTION_CODE IO mode: Wrong Function code. Function code is not supported.
0xC0600103	ERR_OMB_IF_MOD_DATA_TYPE IO mode: Wrong data type.
0xC0600104	ERR_OMB_IF_MOD_BIT_AREA IO mode: Addressed coil is outside of the IO area.
0xC0600106	ERR_OMB_IF_SEND_TCP_CONFIG_RELOAD_FAILED Failed to forward the configuration reload to TCP_UDP task (because of a resource problem).
0xC0600107	ERR_OMB_IF_WRONG_CONFIG_RELOAD_STS Wrong configuration reload state.
0xC0600108	ERR_OMB_IF_RESOURCE_OCCUPIED System error: The requested resource is occupied.
0xC0600109	ERR_OMB_IF_AP_ALREADY_REGISTERED An application is already registered.
0xC060010A	ERR_OMB_IF_AP_NOT_REGISTERED An application is not registered.
0xC060010B	ERR_OMB_IF_START_STOP_MODE Wrong mode ulMode in command OMB_OMBTASK_CMD_START_STOP_OMB_REQ.
0xC060010C	ERR_OMB_IF_START_STOP_STATE_CHANGE State change request (Start/stop) in command OMB_OMBTASK_CMD_START_STOP_OMB_REQ does not meaningful.
0xC060010D	ERR_OMB_IF_IO_MODE_COMMAND_INVALID IO mode: Invalid command received
0xC060010E	ERR_OMB_IF_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	ERR_OMB_IF_MBAP_HEADER Wrong MBAP header received (Transaction Identifier, Protocol Identifier)
0xC0600110	ERR_OMB_IF_UNIT_ID Invalid Unit identifier (ulUnitId).
0xC0600111	ERR_OMB_IF_EXCEPTION Invalid Exception code (ulException).
0xC0600112	ERR_OMB_IF_MBAP_LENGTH Invalid MBAP header Length value.
0xC0600113	ERR_OMB_IF_PDU_BYTE_COUNT Invalid PDU Byte count.
0xC0600114	ERR_OMB_IF_PDU_REF_NUMBER Invalid PDU Reference Number (Starting Address).
0xC0600115	ERR_OMB_IF_PDU_DATA_CNT Invalid PDU Data count (Quantity).
0xC0600116	ERR_OMB_IF_PDU_VALUE Invalid PDU Value.
0xC0600117	ERR_OMB_IF_DATA_ADR Wrong Modbus address. The Modbus address is outside of the Modbus Data model (Range 0 ... 65535).
0xC0600118	ERR_OMB_IF_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).

Hexadecimal value	Definition and description
0xC0600119	ERR_OMB_IF_ERROR_DUE_TO_LIMITED_VERSION The operations is not possible due to limited version of the firmware.
0xC060011A	ERR_OMB_IF_INVALID_MAX_REGS_CNT The maximum defined registers do not fit into the DPM IO size.
0xC060011B	ERR_OMB_IF_INVALID_MAX_COILS_CNT The maximum defined coils does not fit into the DPM IO size.
0xC060011C	ERR_OMB_IF_INVALID_FUNCTION_PARAMETERS Any function has been called with invalid parameter.
0xC060011D	ERR_OMB_IF_PROCESS_DATA_WATCHDOG_TIME_EXPIRED The process data watchdog has expired.
0xC060011E	ERR_OMB_IF_INVALID_PROCESS_DATA_WATCHDOG The process data watchdog not within allowed range - 0, 20 ... 65535 (ms).
0xC060011F	ERR_OMB_IF_INVALID_INACTIVE_TIMEOUT The Inactive Timeout value not within allowed range - 0, 20 ... 65535 (ms).
0xC0600120	ERR_OMB_IF_INVALID_RESERVED Reserved field set to value different than 0.
0xC0600121	ERR_OMB_IF_NO_IP_ADDR_CFG There is no source for an IP address (BOOTP, DHCP, IP address parameter) specified.
0xC0600122	ERR_OMB_IF_INVALID_NETMASK The configuration parameters contain an invalid subnet mask.
0xC0600123	ERR_OMB_IF_INVALID_IP_ADDR The configuration parameters contain an invalid IP address.
0xC0600124	ERR_OMB_IF_INVALID_FLAGS_IP_CONFIG The configuration parameters contain an invalid flag combination for manual IP configuration (IP_CFG_FLAG_IP_ADDR, IP_CFG_FLAG_NET_MASK, IP_CFG_FLAG_GATEWAY). Valid flag combinations are: */ - No flag set: No manual configuration - only DHCP and/or BOOTP - IP_CFG_FLAG_IP_ADDR + IP_CFG_FLAG_NET_MASK: Local network without gateway - IP_CFG_FLAG_IP_ADDR + IP_CFG_FLAG_NET_MASK + IP_CFG_FLAG_GATEWAY: Network with gateway.
0xC0600125	ERR_OMB_IF_INVALID_GATEWAY The configuration parameters contain an invalid gateway IP address.
0xC0600126	ERR_OMB_IF_INVALID_SYSTEM_FLAGS The configuration parameters contain an invalid System Flags parameter value.
0xC0600127	ERR_OMB_IF_INVALID_WATCHDOG The Watchdog value not within allowed range - 0, 20 ... 65535 (ms).
0xC0600128	ERR_OMB_IF_IO_DATA_IMAGE_OVERLAP Data overlap in input or output data image.
0xC0600129	ERR_OMB_IF_IP_CONFLICT There is a device with the same IP address in the network.
0xC060012A	ERR_OMB_IF_AUTO_IP_TIMEOUT Source for an Auto IP configuration (DHCP, BOOTP) was not found within a specified time.
0xC060012B	ERR_OMB_IF_COMMAND_NOT_ALLOWED_IN_CURRENT_MODE The packet is not allowed to be sent in current configuration mode.
0xC060012C	ERR_OMB_IF_INVALID_FRAME_FRAGMENTATION_TIMEOUT The Frame Fragmentation Timeout value not within allowed range - 0, 20 ... 65535 (ms).

Table 65: Open Modbus/TCP packet status codes (Open Modbus/TCP Task)

3.6.2 Open Modbus/TCP AP Task

Hexadecimal value	Definition and description
0xC0610003	ERR_OMB_OMBAPTASK_WATCHDOG_PARAMETER Invalid parameter for watchdog supervision.
0xC0610004	ERR_OMB_OMBAPTASK_WATCHDOG_ACTIVATE Failed to activate watchdog supervision.
0xC0610006	ERR_OMB_OMBAPTASK_SYS_FLAG_PARAMETER Invalid parameter for system flags.
0xC0610007	ERR_OMB_OMBAPTASK_INVALID_STARTUP_PARAMETER_QUE_ELEM_CNT Invalid Startup Parameter ulQueueElemCnt.
0xC0610008	ERR_OMB_OMBAPTASK_INVALID_STARTUP_PARAMETER_POOL_ELEM_CNT Invalid Startup Parameter ulPoolElemCnt.
0xC0610009	ERR_OMB_OMBAPTASK_INVALID_STARTUP_PARAMETER_START_FLAGS Invalid Startup Parameter ulStartFlags.
0xC061000A	ERR_OMB_OMBAPTASK_INVALID_STARTUP_PARAMETER_CHN_INST Invalid Startup Parameter ulChnInst.
0xC061000B	ERR_OMB_OMBAPTASK_FATAL_ERROR_OMB_TASK The OMB task reports a fatal error. System has stopped. See extended status tMidCodeDiag for further information.
0xC061000C	ERR_OMB_OMBAPTASK_COMMAND_EXCEEDS_DPM_SIZE The OMB task reports a fatal error. System has stopped. See extended status tMidCodeDiag for further information.
0xC061000D	ERR_OMB_OMBAPTASK_COMMAND_OVERLAPED_DPM_OFFSET The OMB task reports a fatal error. System has stopped. See extended status tMidCodeDiag for further information.
0xC061000E	ERR_OMBAPTASK_COMMAND_NOT_ALLOWED_IN_CURRENT_MODE The OMB task reports a fatal error. The packet is not allowed to be sent.
0xC061000F	ERR_OMBAPTASK_COMMAND_NOT_ALLOWED_IN_CURRENT_OMB_STATE The OMB task reports a fatal error. The packet is not allowed to be sent at this state.

Table 66: OMB Open Modbus/TCP AP task packet status codes

3.6.3 Modbus Core

Hexadecimal value	Definition and description
0xC1080001	ERR_MB_CORE_INVALID_IP Invalid IP Address.
0xC1080002	ERR_MB_CORE_MODBUS_INVALID_PARAMETERS The supplied parameters exceed the valid Modbus ranges.
0xC1080003	ERR_MB_CORE_MODBUS_MALFORMED_MESSAGE A message not following the Modbus format was received.
0xC1080004	ERR_MB_CORE_MODBUS_ILLEGAL_FUNCTION A message for unsupported Modbus function code was received.
0xC1080005	ERR_MB_CORE_MODBUS_ILLEGAL_DATA_VALUE A Modbus message with unexpected data size was received.
0xC1080006	ERR_MB_CORE_MODBUS_UNEXPECTED_RESPONSE A Modbus response that does not match the last sent request was received.
0xC1080007	ERR_MB_CORE_MODBUS_EXCEPTION A Modbus exception response was received.
0xC1080008	ERR_MB_CORE_MODBUS_INVALID_VALUE A supplied parameter is not a valid Modbus value.
0xC1080010	ERR_MB_CORE_CM_CALLBACK_NOT_REGISTERED Callback functions are not registered.
0xC1080011	ERR_MB_CORE_CM_NETWORK_PROBLEM Connection Manager has a network (communication) problem.
0xC1080020	ERR_MB_CORE_CM_SERVER_INVALID_CONFIGURATION The supplied configuration for the Server Connection Manager is invalid.
0xC1080021	ERR_MB_CORE_CM_SERVER_ALREADY_STARTED The Server Connection Manager has already been started.
0xC1080022	ERR_MB_CORE_CM_SERVER_ALREADY_STOPPED The Server Connection Manager has already been stopped.
0xC1080023	ERR_MB_CORE_CM_SERVER_TIMEOUT_IDLE The Server Connection Manager's Idle Timeout has expired.
0xC1080024	ERR_MB_CORE_CM_SERVER_NOT_ALLOWED The action is not allowed for the Server Connection Manager.
0xC1080030	ERR_MB_CORE_CM_CLIENT_INVALID_CONFIGURATION The supplied configuration for the Client Connection Manager is invalid.
0xC1080031	ERR_MB_CORE_CM_CLIENT_ALREADY_STARTED The Client Connection Manager has already been started.
0xC1080032	ERR_MB_CORE_CM_CLIENT_NOT_ALLOWED The action is not allowed for the Client Connection Manager.
0xC1080033	ERR_MB_CORE_CM_CLIENT_TIMEOUT_CONNECT The Client Connection Manager's Connect Timeout has expired.
0xC1080034	ERR_MB_CORE_CM_CLIENT_TIMEOUT_SEND The Client Connection Manager's Send Timeout has expired.
0xC1080035	ERR_MB_CORE_CM_CLIENT_TIMEOUT_IDLE The Client Connection Manager's Idle Timeout has expired.
0xC1080036	ERR_MB_CORE_CM_CLIENT_NO_CONNECTION_AVAILABLE The Client Connection Manager has temporarily no connections available.
0xC1080040	ERR_MB_CORE_SERVER_INVALID_CONFIGURATION The supplied configuration for the Server is invalid.

Hexadecimal value	Definition and description
0xC1080041	ERR_MB_CORE_SERVER_TRANSACTION_EXPIRED Server transaction has expired.
0xC1080042	ERR_MB_CORE_SERVER_NO_RESOURCES Server is temporarily out of resources.
0xC1080043	ERR_MB_CORE_SERVER_ASYNC_REQUEST_IN_PROGRESS This error code should be returned by the user in case he cannot process a server request synchronously.
0xC1080044	ERR_MB_CORE_SERVER_NOT_ALLOWED The action is not allowed for the Server.
0xC1080050	ERR_MB_CORE_CLIENT_INVALID_CONFIGURATION The supplied configuration for the Client is invalid.
0xC1080051	ERR_MB_CORE_CLIENT_NO_RESOURCES Client is temporarily out of resources.
0xC1080052	ERR_MB_CORE_CLIENT_TRANSACTION_TIMEOUT Client transaction's timeout has expired.
0xC1080053	ERR_MB_CORE_CLIENT_NOT_ALLOWED The action is not allowed for the Client.
0xC1080054	ERR_MB_CORE_CLIENT_TRANSACTION_ABORTED Client transaction has been aborted.

Table 67: Modbus Core

3.6.4 Command Table

Hexadecimal value	Definition and description
0xC0E20001	ERR_CMDTBL_COMMAND_INVALID Invalid command received.
0xC0E20002	ERR_CMDTBL_INVALID_PROTOCOL_TYPE Not supported protocol.
0xC0E20003	ERR_CMDTBL_INVALID_QUEUE_NAME The Queue name is invalid.
0xC0E20004	ERR_CMDTBL_UNSUPPORTED_VERSION The version is not supported.
0xC0E20005	ERR_CMDTBL_TABLE_NOT_AVAILABLE The table is not configured.
0xC0E20006	ERR_CMDTBL_COMMAND_NOT_AVAILABLE The command is not configured.
0xC0E20007	ERR_CMDTBL_DEST_QUEUE_NOT_INITED The destination queue is not initialized.
0xC0E20008	ERR_CMDTBL_COMMAND_DOES_NOT_MATCH_TABLE The requested command does not exist in the table.
0xC0E20009	ERR_CMDTBL_COMMAND_NOT_TRIGGERABLE The command is not defined as a triggerable one.
0xC0E2000A	ERR_CMDTBL_COMMAND_NOT_ACTIVE The command is not active or belongs to inactive table.
0xC0E2000B	ERR_CMDTBL_UNSUPPORTED_PROTOCOL_TYPE The command is not active or belongs to inactive table.
0xC0E2000C	ERR_CMDTBL_MAX_TABLES_REACHED The maximum number of tables has been reached.
0xC0E2000D	ERR_CMDTBL_MAX_COMMANDS_REACHED The maximum number of commands has been reached.
0xC0E2000E	ERR_CMDTBL_ALREADY_INITED The Command Table has already been initialized. Perform a Deinitialization first.
0xC0E2000F	ERR_CMDTBL_NOT_INITED The Command Table has not been initialized. Perform an initialization first.
0xC0E20010	ERR_CMDTBL_REQ_NOT_ALLOWED The request is not allowed at this state.
0xC0E20011	ERR_CMDTBL_INVALID_DEVICE_ADDRESS An invalid Device Address has been detected.
0xC0E20012	ERR_CMDTBL_INVALID_UNIT_ID An invalid Unit Identifier has been detected.
0xC0E20013	ERR_CMDTBL_INVALID_FUNCTION_CODE An invalid Function Code has been detected.
0xC0E20014	ERR_CMDTBL_INVALID_DATA_COUNT An invalid Data Size has been detected.
0xC0E20015	ERR_CMDTBL_INVALID_COMMAND_OFFSET An invalid Command Offset has been detected.
0xC0E20016	ERR_CMDTBL_INVALID_TRIGGER_TYPE An invalid Trigger Type has been detected.
0xC0E20017	ERR_CMDTBL_INVALID_CYCLE_PERIOD An invalid Cycle Period has been detected.

Hexadecimal value	Definition and description
0xC0E20018	ERR_CMDTBL_INVALID_RESERVED_VALUE An invalid Reserved Field has been detected.
0xC0E20019	ERR_CMDTBL_ONE_TABLE_PER_DEVICE_ADDR Each device address can be part of only one table.
0xC0E2001A	ERR_CMDTBL_OFFSET_NOT_ALIGNED The offset is not 4-byte aligned.
0xC0E2001B	ERR_CMDTBL_INVALID_DATA_ADDRESS An invalid Data Address has been detected.
0xC0E2001C	ERR_CMDTBL_INVALID_BITFIELD_OFFSET An invalid bit field offset has been detected.
0xC0E2001D	ERR_CMDTBL_INVALID_COMMAND_DELAY An invalid Command Delay has been detected.
0xC0E2001E	ERR_CMDTBL_INVALID_SCAN_DELAY An invalid Interscan Delay has been detected.
0xC0E2001F	ERR_CMDTBL_CYCLE_PERIOD_MUST_BE_ZERO The command cycle period and the table cycle period cannot be non-zero values at the same time.
0xC0E20020	ERR_CMDTBL_INVALID_TABLE_FLAGS An invalid Flags value has been detected.

Table 68: Command Table error codes

3.7 POWERLINK

3.7.1 POWERLINK EPL PDO

Hexadecimal value	Definition and description
0xC0150001	ERR_EPL_PDO_COMMAND_INVALID Invalid command received.
0xC0150002	ERR_EPL_PDO_INVALID_STARTUP_PARAMETER Invalid Startup parameter.

Table 69: POWERLINK EPL PDO packet status codes

3.7.2 POWERLINK EPL SDO

Hexadecimal value	Definition and description
0xC0160001	ERR_EPL_SDO_COMMAND_INVALID Invalid command received.
0xC0160002	ERR_EPL_SDO_PROTOCOL_TIMEOUT SDO Protocol timeout.
0xC0160003	ERR_EPL_SDO_SCS_SPECIFIER_INVALID Client/Server command specifier not valid or unknown.
0xC0160004	ERR_EPL_SDO_OUT_OF_MEMORY Out of Memory.
0xC0160005	ERR_EPL_SDO_UNSUPPORTED_ACCESS_TO_OBJECT Unsupported access to an object.
0xC0160006	ERR_EPL_SDO_ATTEMPT_TO_READ_A_WRITE_ONLY_OBJECT Attempt to read a write only object.
0xC0160007	ERR_EPL_SDO_ATTEMPT_TO_WRITE_A_READ_ONLY_OBJECT Attempt to write a read only object.
0xC0160008	ERR_EPL_SDO_OBJECT_DOES_NOT_EXIST The object does not exist in the object dictionary.
0xC0160009	ERR_EPL_SDO_OBJECT_CAN_NOT_BE_MAPPED_INTO_THE_PDO The object cannot be mapped into the PDO.
0xC016000a	ERR_EPL_SDO_OBJECTS_WOULD_EXCEED_PDO_LENGTH The number and length of the objects to be mapped would exceed the PDO length.
0xC016000b	ERR_EPL_SDO_GENERAL_PARAMETER_INCOMPATIBILITY_REASON General parameter incompatibility reason.
0xC016000c	ERR_EPL_SDO_GENERAL_INTERNAL_INCOMPATIBILITY_IN_DEVICE General internal incompatibility in the device.
0xC016000d	ERR_EPL_SDO_ACCESS_FAILED_DUE_TO_A_HARDWARE_ERROR Access failed due to a hardware error.
0xC016000e	ERR_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	ERR_EPL_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_TOO_HIGH Data type does not match, service parameter too long.
0xC0160010	ERR_EPL_SDO_DATA_TYPE_DOES_NOT_MATCH_LEN_OF_SRV_PARAM_TOO_LOW Data type does not match, service parameter too short.
0xC0160011	ERR_EPL_SDO_SUBINDEX_DOES_NOT_EXIST Subindex does not exist.

Hexadecimal value	Definition and description
0xC0160012	ERR_EPL_SDO_VALUE_RANGE_OF_PARAMETER_EXCEEDED Value range of parameter exceeded.
0xC0160013	ERR_EPL_SDO_VALUE_OF_PARAMETER_WRITTEN_TOO_HIGH Value of parameter written too high.
0xC0160014	ERR_EPL_SDO_VALUE_OF_PARAMETER_WRITTEN_TOO_LOW Value of parameter written too low.
0xC0160015	ERR_EPL_SDO_MAXIMUM_VALUE_IS_LESS_THAN_MINIMUM_VALUE Maximum value is less than minimum value.
0xC0160016	ERR_EPL_SDO_GENERAL_ERROR General error.
0xC0160017	ERR_EPL_SDO_DATA_CANNOT_BE_TRANSFERRED_OR_STORED_TO_THE_APP Data cannot be transferred to or stored in the application.
0xC0160018	ERR_EPL_SDO_DATA_NO_TRANSFER_DUE_TO_LOCAL_CONTROL Data cannot be transferred to or stored in the application because of local control.
0xC0160019	ERR_EPL_SDO_DATA_NO_TRANSFER_DUE_TO_PRESENT_DEVICE_STATE Data cannot be transferred to or stored in the application because of present device state.
0xC016001A	ERR_EPL_SDO_NO_OBJECT_DICTIONARY_PRESENT Object dictionary dynamic generation fails or no object dictionary present.
0xC016001B	ERR_EPL_SDO_UNKNOWN_ABORT_CODE Unknown SDO abort code.
0xC016001C	ERR_EPL_CONN_BUFFER_FULL Connection buffer full.
0xC016001D	ERR_EPL_SDO_INVALID_STARTUP_PARAMETER Invalid Startup parameter.
0xC016001E	ERR_EPLCN_SDO_OD_DPM_MODE_OBJECTS_CAN_ONLY_BE_READONLY DPM Mode Objects can only be set read-only.
0xC016001F	ERR_EPLCN_SDO_OD_DPM_MODE_OBJECTS_DIRECTION_PARAMETER_INVALID Invalid direction parameter for DPM Mode Objects.
0xC0160020	ERR_EPLCN_SDO_OD_DPM_MODE_SUBOBJECT_OFFSET_OUT_OF_RANGE Invalid offset parameter for DPM Mode Objects.

Table 70: POWERLINK EPL SDO Packet status codes

3.7.3 POWERLINK EPL NMT

Hexadecimal value	Definition and description
0xC0170001	ERR_EPL_NMT_COMMAND_INVALID Invalid command received.
0xC0170002	ERR_EPL_NMT_OUTPUT_DATA_INVALID Output data invalid.
0xC0170003	ERR_EPL_NMT_INPUT_DATA_OVERSIZED Input data oversized.
0xC0170004	ERR_EPL_NMT_NODE_INPUT_DATA_INVALID Node-specific Input data invalid.
0xC0170005	ERR_EPL_NMT_PDO_DOES_NOT_EXIST Node-specific PDO does not exist.
0xC0170006	ERR_EPL_NMT_PDO_EXISTS Node-specific PDO exists.
0xC0170007	ERR_EPL_NMT_PDO_EXCEEDS_POLL_IN_SIZE PDO will exceed Poll In size.
0xC0170008	ERR_EPL_NMT_PDO_EXCEEDS_POLL_OUT_SIZE PDO will exceed Poll Out size.
0xC0170009	ERR_EPL_NMT_INVALID_STARTUP_PARAMETER Invalid Startup parameter.
0xC017000A	ERR_EPL_NMT_INVALID_STATE_CHANGE Invalid state change requested.
0xC017000B	ERR_EPL_NMT_FAILED_TO_LOCK_MUTEX Failed to lock mutex.
0xC017000C	ERR_EPL_NMT_COULD_NOT_CREATE_SDO_MUTEX Could not create SDO mutex.
0xC017000D	ERR_EPL_NMT_COULD_NOT_CREATE_NMT_MUTEX Could not create NMT mutex.
0xC017000E	ERR_EPL_NMT_COULD_NOT_CREATE_ERRH_MUTEX Could not create Error Handling mutex.
0xC017000F	ERR_EPL_NMT_COULD_NOT_CREATE_SDO_TASK Could not create SDO task.
0xC0170010	ERR_EPL_NMT_COULD_NOT_CREATE_NMT_TASK Could not create NMT task.
0xC0170011	ERR_EPL_NMT_COULD_NOT_CREATE_SDO_SIGNAL Could not create SDO signal.
0xC0170012	ERR_EPL_NMT_COULD_NOT_CREATE_NMT_SIGNAL Could not create NMT signal.
0xC0170013	ERR_EPL_NMT_COULD_NOT_CREATE_BASIC_ETH_TIMER Could not create Basic Ethernet timer.
0xC0170014	ERR_EPL_NMT_COULD_NOT_CREATE_SOC_TIMER Could not create SoC timer.
0xC0170015	ERR_EPL_NMT_COULD_NOT_CREATE_SEQU_LAYER_TIMER Could not create Sequence Layer timer.
0xC0170016	ERR_EPL_NMT_COULD_NOT_CREATE_OBJECT_DICTIONARY Could not create object dictionary.
0xC0170017	ERR_EPL_NMT_EMERGENCY_QUEUE_OVERFLOW Emergency Queue overflow.

Hexadecimal value	Definition and description
0xC0170018	ERR_EPL_NMT_INVALID_STATUS_ENTRY_INDEX Invalid status entry index.
0xC0170019	ERR_EPL_NMT_COULD_NOT_LOCK_MUTEX Could not lock mutex.
0xC017001A	ERR_EPL_NMT_INVALID_STATIC_BIT_FIELD_NUMBER Invalid static bit field bit number.
0xC017001B	ERR_EPL_NMT_NO_MORE_APP_HANDLES No more App handles.
0xC017001C	ERR_EPL_NMT_APP_NOT_REGISTERED Application queue is not registered.
0xC017001D	ERR_EPL_NMT_APP_ALREADY_REGISTERED Application queue is already registered.
0xC017001E	ERR_EPL_NMT_FAILED_TO_INITIALIZE_EPLCN_INTERFACE EplCn-Interface could not be initialized.
0xC017001F	ERR_EPL_NMT_INVALID_PARAMETERS Invalid Parameters.

Table 71: POWERLINK EPL NMT packet status codes

3.7.4 POWERLINK EPL ALI

Hexadecimal value	Definition and description
0xC0180001	ERR_EPL_ALI_COMMAND_INVALID Invalid command received.

Table 72: POWERLINK EPL ALI packet status codes

3.7.5 POWERLINK EPL PLD

Hexadecimal value	Definition and description
0xC0190001	ERR_EPL_PLD_COMMAND_INVALID Invalid command received.

Table 73: POWERLINK EPL PLD packet status codes

3.7.6 POWERLINK Controlled Node IF Task

Hexadecimal value	Definition and description
0xC0E30001	ERR_EPLCN_IF_LEGACY_PARAMETER_NOT_SUPPORTED Parameter of the current legacy service is not supported any more.

Table 74: POWERLINK Controlled Node IF Task result codes

3.7.7 POWERLINK Controlled Node NMT

Hexadecimal value	Definition and description
0xC0E60001	ERR_EPLCN_NMT_INVALID_STATE_CHANGE Invalid state change.
0xC0E60002	ERR_EPLCN_NMT_STACK_NOT_CONFIGURED Stack is not configured.
0xC0E60003	ERR_EPLCN_NMT_NOT_ALLOWED_IN_ACT_STATE Action not allowed in current NMT state.
0xC0E60004	ERR_EPLCN_NMT_MAX_PDO_SIZE_EXCEEDED Maximum allowed PDO exceeded.
0xC0E60005	ERR_EPLCN_NMT_ENTRY_TYPE_IS_NOT_ERROR_ENTRY Entry type is not ErrorEntry.
0xC0E60006	ERR_EPLCN_NMT_ENTRY_TYPE_IS_NOT_STATUS_ENTRY Entry type is not StatusEntry.
0xC0E60007	ERR_EPLCN_NMT_MAX_NUM_STATUS_ENTRIES_EXCEEDED Maximum allowed number of StatusEntry exceeded.
0xC0E60008	ERR_EPLCN_NMT_CONFIGURED_NUM_STATUS_ENTRIES_EXCEEDED Entry number exceeds the configured maximum number of StatusEntry.
0xC0E60009	ERR_EPLCN_NMT_INVALID_STATIC_FIELD_BIT_NUMBER Invalid requested bit number for StaticFieldBit.
0xC0E6000A	ERR_EPLCN_NMT_FSM_AUTO_RUN_ENABLED The NMT state machine is running in auto mode. State changes cannot be triggered by the application.
0xC0E6000B	ERR_EPLCN_NMT_CONFIGURED_CYCLE_LENGTH_TOO_LOW Configured cycle length is too low.
0xC0E6000C	ERR_EPLCN_NMT_CONFIGURED_MIN_CYCLE_LENGTH_TOO_LOW Configured minimum cycle length is too low for the current hardware/software combination.
0xC0E6000D	ERR_EPLCN_NMT_INVALID_NODE_ID The configured Node ID is Invalid.

Table 75: POWERLINK Controlled Node NMT result codes

3.8 PROFINET

3.8.1 PNIO CTL (CMCTL Task)

Hexadecimal value	Definition and description
0xC00A0001	ERR_PNIO_CMCTL_COMMAND_INVALID Received invalid command in CMCTL task.
0xC00A0002	ERR_PNIO_STATUS Generic error code. See packets data-status code for details.
0xC00A0010	ERR_PNIO_CMCTL_INIT_PARAM_INVALID Invalid parameter in CMCTL_ResourceInit().
0xC00A0011	ERR_PNIO_CMCTL_RESOURCE_LIMIT_EXCEEDED No more CMCTL protocol machines possible.
0xC00A0012	ERR_PNIO_CMCTL_RESOURCE_OUT_OF_MEMORY Insufficient memory for this request to CMCTL.
0xC00A0013	ERR_PNIO_CMCTL_CLOSED This CMCTL protocol machine was closed.
0xC00A0014	ERR_PNIO_CMCTL_STATE_CONFLICT This request cannot be served in current CMCTL state.
0xC00A0015	ERR_PNIO_CMCTL_CONFIG_PENDING The state of CMCTL's management resource is pending.
0xC00A0016	ERR_PNIO_CMCTL_CONFIG_STATE_INVALID The state of CMCTL's management resource is invalid.
0xC00A0017	ERR_PNIO_CMCTL_PACKET_OUT_OF_MEMORY Insufficient memory to create a packet in CMCTL task.
0xC00A0018	ERR_PNIO_CMCTL_PACKET_SEND_FAILED Error while sending a packet to another task in CMCTL.
0xC00A0019	ERR_PNIO_CMCTL_CONN_REQ_LEN_INVALID The length of the Connect-Packet in CMCTL_Connect_req() is invalid.
0xC00A001A	ERR_PNIO_CMCTL_NAME_LEN_INVALID The length of the name for IO-Device does not match to the name in CMCTL_Connect_req().
0xC00A001B	ERR_PNIO_CMCTL_BLKNUM_UNEXPECTED The Connect-Confirmation contains an incorrect amount of blocks.
0xC00A001C	ERR_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	ERR_PNIO_CMCTL_INVALID_FRAMEID_RECEIVED The Connect-Response from IO-Device specified an invalid FrameID to use for IO-Controllers OutputCR.
0xC00A001E	ERR_PNIO_CMCTL_EMPTY_POOL_DETECTED The packet pool of CMCTL is empty.
0xC00A0020	ERR_PNIO_CMCTL_BLKTYPE_UNEXPECTED The connect-confirmation contains an unexpected block.
0xC00A0021	ERR_PNIO_CMCTL_BLKTYPE_UNEXPECTED_INIT CMCTL_Connect_req() expected an INIT-block that is missing.
0xC00A0022	ERR_PNIO_CMCTL_BLKTYPE_UNEXPECTED_IODW_REQ CMCTL_RMWrite_req() expected a WriteReq-block that is missing.
0xC00A0023	ERR_PNIO_CMCTL_BLKTYPE_UNEXPECTED_IODW_DATA CMCTL_RMWrite_req() expected a WriteData-block that is missing.

Hexadecimal value	Definition and description
0xC00A0030	ERR_PNIO_CMCTL_BLKLEN_INVALID_INIT INIT-block length for CMCTL_Connect_req() is invalid.
0xC00A0031	ERR_PNIO_CMCTL_BLKLEN_INVALID_IODW_REQ Length of WriteReq-block for CMCTL_RMWrite_req() is invalid.
0xC00A0032	ERR_PNIO_CMCTL_BLKLEN_INVALID_IODW_DATA Length of WriteData-block for CMCTL_RMWrite_req() is invalid.
0xC00A0040	ERR_PNIO_CMCTL_INVALID_PM_INDEX The index of CMCTL protocol-machine is invalid.
0xC00A0041	ERR_PNIO_CMCTL_INVALID_PM The CMCTL protocol-machine corresponding to index is invalid.
0xC00A0042	ERR_PNIO_CMCTL_INVALID_CMCTL_HANDLE The handle to CMCTL protocol-machine is invalid.
0xC00A0050	ERR_PNIO_CMCTL_DEVICE_NOT_RESPONDING The IO-Device to be connected does not answer.
0xC00A0051	ERR_PNIO_CMCTL_DUPLICATE_DEVICE_NAME_DETECTED More than one IO-Device with the specified NameOfStation exists; a connection cannot be established.
0xC00A0052	ERR_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 cannot be established.
0xC00A0060	ERR_PNIO_CMCTL_RPC_CONNECT_FAILED The Connect-Response of IO-Device contained an error code; a connection could not be established.
0xC00A0061	ERR_PNIO_CMCTL_RPC_WRITE_PARAM_FAILED The Write_Param-Response of IO-Device contained an error code; a connection could not be established.
0xC00A0062	ERR_PNIO_CMCTL_RPC_WRITE_FAILED The Write-Response of IO-Device contained an error code.
0xC00A0063	ERR_PNIO_CMCTL_RPC_READ_FAILED The Read-Response of IO-Device contained an error code.
0xC00A0064	ERR_PNIO_CMCTL_TCP_IP_SHUTDOWN The TCP/IP-Stack closed a socket needed for communication.
0xC00A0065	ERR_PNIO_CMCTL_RPC_RESPONSE_TOO_SHORT The RPC-Response received does not have the required minimum length.
0xC00A0070	ERR_PNIO_CMCTL_AR_BLOCKTYPE The expected configuration block for AR in CMCTL_RMConnect_req_LoadAr() is missing.
0xC00A0071	ERR_PNIO_CMCTL_AR_BLOCKLEN The expected configuration block for AR in CMCTL_RMConnect_req_LoadAr() has an invalid length.
0xC00A0072	ERR_PNIO_CMCTL_AR_TYPE The configuration block for AR in CMCTL_RMConnect_req_LoadAr() has an invalid type.
0xC00A0073	ERR_PNIO_CMCTL_AR_UUID The configuration block for AR in CMCTL_RMConnect_req_LoadAr() has an invalid UUID.
0xC00A0074	ERR_PNIO_CMCTL_AR_PROPERTY The configuration block for AR in CMCTL_RMConnect_req_LoadAr() has an invalid network properties value.
0xC00A0075	ERR_PNIO_CMCTL_AR_REF_UNEXPECTED The AR-Reference for CMCTL protocol-machine is invalid.
0xC00A0076	ERR_PNIO_CMCTL_AR_UUID_COMP_FAILED The UUID inside IO-Device's Connect-Confirmation is incorrect.

Hexadecimal value	Definition and description
0xC00A0077	ERR_PNIO_CMCTL_AR_KEY_COMP_FAILED The session-key inside IO-Device's Connect-Confirmation is incorrect.
0xC00A0078	ERR_PNIO_CMCTL_AR_MAC_COMP_FAILED The MAC-address of IO-Device is incorrect.
0xC00A0080	ERR_PNIO_CMCTL_ALCR_BLOCKTYPE The expected configuration block for Alarm-CR in CMCTL_RMConnect_req_LoadAlcr() is missing.
0xC00A0081	ERR_PNIO_CMCTL_ALCR_BLOCKLEN The expected configuration block for Alarm-CR in CMCTL_RMConnect_req_LoadAlcr() has an invalid length.
0xC00A0082	ERR_PNIO_CMCTL_ALCR_TYPE The configuration block for Alarm-CR in CMCTL_RMConnect_req_LoadAlcr() has an invalid type.
0xC00A0083	ERR_PNIO_CMCTL_ALCR_PROPERTY The configuration block for Alarm-CR in CMCTL_RMConnect_req_LoadAlcr() has an invalid network properties value.
0xC00A0084	ERR_PNIO_CMCTL_ALCR_RTA_FACTOR The configuration block for Alarm-CR in CMCTL_RMConnect_req_LoadAlcr() has an invalid RTA-factor.
0xC00A0085	ERR_PNIO_CMCTL_ALCR_RTA_RETRY The configuration block for Alarm-CR in CMCTL_RMConnect_req_LoadAlcr() has an invalid value for RTA-retry.
0xC00A0090	ERR_PNIO_CMCTL_IOCRR_BLOCKLEN The expected configuration block for IOCR in CMCTL_RMConnect_req_LoadIocr() has an invalid length.
0xC00A0091	ERR_PNIO_CMCTL_IOCRR_TYPE_UNSUPPORTED The type of IOCR is unsupported.
0xC00A0092	ERR_PNIO_CMCTL_IOCRR_TYPE_UNKNOWN The type of IOCR is unknown.
0xC00A0093	ERR_PNIO_CMCTL_IOCRR_RTCCLASS_UNSUPPORTED The RTC-class is unsupported.
0xC00A0094	ERR_PNIO_CMCTL_IOCRR_RTCCLASS_UNKNOWN The RTC-class is unknown.
0xC00A0095	ERR_PNIO_CMCTL_IOCRR_IFTYPE_UNSUPPORTED The expected configuration block for IOCR in CMCTL_RMConnect_req_LoadIocr() has an unsupported interface-type.
0xC00A0096	ERR_PNIO_CMCTL_IOCRR_SCSYNC_UNSUPPORTED The expected configuration block for IOCR in CMCTL_RMConnect_req_LoadIocr() has an unsupported value for SendClock.
0xC00A0097	ERR_PNIO_CMCTL_IOCRR_ADDRESS_UNSUPPORTED The expected configuration block for IOCR in CMCTL_RMConnect_req_LoadIocr() has an unsupported Address-Resolution.
0xC00A0098	ERR_PNIO_CMCTL_IOCRR_REDUNDANCY_UNSUPPORTED The expected configuration block for IOCR in CMCTL_RMConnect_req_LoadIocr() has an unsupported Media-Redundancy.
0xC00A0099	ERR_PNIO_CMCTL_IOCRR_REFERENCE No IOCR could be found or created.
0xC00A009A	ERR_PNIO_CMCTL_IOCRR_OBJECT_IOD The expected configuration block for IOCR in CMCTL_RMConnect_req_LoadIocr() does not contain any IO-Data.
0xC00A009B	ERR_PNIO_CMCTL_IOCRR_OBJECT_IOS The expected configuration block for IOCR in CMCTL_RMConnect_req_LoadIocr() does not contain any IO-Status.

Hexadecimal value	Definition and description
0xC00A009C	ERR_PNIO_CMCTL_IOCRR_API The expected configuration block for IOCRR in CMCTL_RMConnect_req_LoadIocrr() does not contain any API.
0xC00A00A0	ERR_PNIO_CMCTL_EXPS_BLOCKLEN The expected configuration block for Expected-Submodules in CMCTL_RMConnect_req_LoadExps() has an invalid length.
0xC00A00A1	ERR_PNIO_CMCTL_EXPS_API The expected configuration block for Expected-Submodules in CMCTL_RMConnect_req_LoadExps() does not contain any API.
0xC00A00A2	ERR_PNIO_CMCTL_EXPS_SUBMODULE The expected configuration block for Expected-Submodules in CMCTL_RMConnect_req_LoadExps() does not contain any submodules.
0xC00A00A3	ERR_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.
0xC00A00AA	ERR_PNIO_CMCTL_ACYCLIC_REQ_FAILED_REMOTE The acyclic service failed. The IO-Device answered with an error code which is contained in confirmation packet.
0xC00A00AB	ERR_PNIO_CMCTL_ACYCLIC_REQ_FAILED_RPC The acyclic service failed. The RPC-layer detected an error which is contained in confirmation packet.
0xC00A00AC	ERR_PNIO_CMCTL_ACYCLIC_REQ_FAILED_INTERNAL The acyclic service failed. An internal error occurred.
0xC00A00AD	ERR_PNIO_CMCTL_LATE_ERROR_REPORTED The NRPM state machine reported a late error. This forced CMCTL to shutdown the connection
0xC00A00B0	ERR_PNIO_CMCTL_SRINFO_BLOCKTYPE The expected configuration block for SRInfo in CMCTL_RMConnect_req_LoadSRInfo() is missing.
0xC00A00B1	ERR_PNIO_CMCTL_SRINFO_BLOCKLEN The expected configuration block for SRInfo in CMCTL_RMConnect_req_LoadSRInfo() has an invalid length.
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_FALIED Failed to get handle to ACP message-queue in CMCTL.
0xC00AF005	TLR_DIAG_E_CMCTL_TASK_IDENT_MGT_QUE_FALIED Failed to get handle to MGT message-queue in CMCTL.
0xC00AF006	TLR_DIAG_E_CMCTL_TASK_IDENT_RPC_QUE_FALIED Failed to get handle to RPC message-queue in CMCTL.
0xC00AF007	TLR_DIAG_E_CMCTL_TASK_IDENT_TCP_QUE_FALIED Failed to get handle to TCP/IP message-queue in CMCTL .

Table 76: PNIO CTL status codes (CMCTL task)

3.8.2 PNIO CTL (CMDEV Task)

Hexadecimal value	Definition and description
0xC00B0001	ERR_PNIO_CMDEV_COMMAND_INVALID Received invalid command in CMDEV task.
0xC00B0010	ERR_PNIO_CMDEV_INIT_PARAM_INVALID Invalid parameter in CMDEV_ResourceInit().
0xC00B0011	ERR_PNIO_CMDEV_RESOURCE_LIMIT_EXCEEDED No more CMDEV protocol machines possible.
0xC00B0012	ERR_PNIO_CMDEV_RESOURCE_OUT_OF_MEMORY Insufficient memory for this request to CMDEV.
0xC00B0013	ERR_PNIO_CMDEV_CLOSED This CMDEV protocol machine was closed.
0xC00B0014	ERR_PNIO_CMDEV_STATE_CONFLICT This request cannot be served in current CMDEV state.
0xC00B0015	ERR_PNIO_CMDEV_CONFIG_PENDING The state of CMDEV's management resource is pending.
0xC00B0016	ERR_PNIO_CMDEV_CONFIG_STATE_INVALID The state of CMDEV's management resource is invalid.
0xC00B0017	ERR_PNIO_CMDEV_PACKET_OUT_OF_MEMORY Insufficient memory to create a packet in CMDEV task.
0xC00B0018	ERR_PNIO_CMDEV_PACKET_SEND_FAILED Error while sending a packet to another task in CMDEV.
0xC00B0019	ERR_PNIO_CMDEV_CONN_REQ_LEN_INVALID The length of the Connect-Packet in CMDEV_Connect_req() is invalid.
0xC00B001A	ERR_PNIO_CMDEV_NAME_LEN_INVALID The length of the name for IO-Device does not match to the name in CMDEV_Connect_req().
0xC00B001B	ERR_PNIO_CMDEV_BLKNUM_UNEXPECTED The Connect-Confirmation contains an incorrect amount of blocks.
0xC00B001C	ERR_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	ERR_PNIO_CMDEV_INVALID_FRAMEID_RECEIVED The Connect-Response from IO-Device specified an invalid FrameID to use for IO-Controllers OutputCR.
0xC00B001E	ERR_PNIO_CMDEV_PNIO_STATUS
0xC00B001F	ERR_PNIO_CMDEV_EMPTY_POOL_DETECTED The packet pool of CMDEV is empty.
0xC00B0020	ERR_PNIO_CMDEV_PACKET_WRONG_DEVICEHANDLE
0xC00B0021	ERR_PNIO_CMDEV_POINTER_INVALID
0xC00B0022	ERR_PNIO_CMDEV_FUNCTION_RETURN_FAILURE
0xC00B0023	ERR_PNIO_CMDEV_WAIT_FOR_PACKET_FAILED
0xC00B0024	ERR_PNIO_CMDEV_ALPMI_ACTIVATE_FAILED
0xC00B0025	ERR_PNIO_CMDEV_BUILD_CONNECT_RSP_FAILED
0xC00B0026	ERR_PNIO_CMDEV_AP_ENTRY_NOT_FOUND
0xC00B0027	ERR_PNIO_CMDEV_TIMER_CREATE_FAILED
0xC00B0028	ERR_PNIO_CMDEV_ERROR_SEQUENCE
0xC00B0029	ERR_PNIO_CMDEV_INVALID_PLUG_REQUEST_PCK
0xC00B002A	ERR_PNIO_CMDEV_INVALID_PULL_REQUEST_PCK
0xC00B002B	ERR_PNIO_CMDEV_PLUG_SLOT_NOT_EXPECTED

Hexadecimal value	Definition and description
0xC00B002C	ERR_PNIO_CMDEV_PLUG_SUBSLOT_NOT_EXPECTED
0xC00B002D	ERR_PNIO_CMDEV_RPC_PACKET_INVALID
0xC00B002E	ERR_PNIO_CMDEV_ALPMI_INIT_FAILED Initializing the ALPMI state machine failed.
0xC00B002F	ERR_PNIO_CMDEV_CHANGE_BUS_STATE_FAILED Changing the internal Bus state failed.
0xC00B0040	ERR_PNIO_CMDEV_INVALID_PM_INDEX The index of CMDEV protocol-machine is invalid.
0xC00B0041	ERR_PNIO_CMDEV_INVALID_PM The CMDEV protocol-machine corresponding to index is invalid.
0xC00B0042	ERR_PNIO_CMDEV_INVALID_CMDEV_HANDLE The handle to CMDEV protocol-machine is invalid.
0xC00B0043	ERR_PNIO_CMDEV_SUBMODULE_NOT_IN_CYCLIC_DATA_EXCHANGE The request cannot be handled because the submodule is not contained in cyclic data exchange.
0xC00B0050	ERR_PNIO_CMDEV_DEVICE_NOT_RESPONDING The IO-Device to be connected does not answer.
0xC00B0051	ERR_PNIO_CMDEV_DUPLICATE_DEVICE_NAME_DETECTED More than one IO-Device with the specified NameOfStation exists; a connection cannot be established.
0xC00B0052	ERR_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	ERR_PNIO_CMDEV_TOO_MUCH_ALARM_DATA The packet contains too much alarm data.
0xC00B0060	ERR_PNIO_CMDEV_RPC_CONNECT_FAILED The Connect-Response of IO-Device contained an error code; a connection could not be established.
0xC00B0061	ERR_PNIO_CMDEV_RPC_WRITE_PARAM_FAILED The Write_Param-Response of IO-Device contained an error code; a connection could not be established.
0xC00B0062	ERR_PNIO_CMDEV_RPC_WRITE_FAILED The Write-Response of IO-Device contained an error code.
0xC00B0063	ERR_PNIO_CMDEV_RPC_READ_FAILED The Read-Response of IO-Device contained an error code.
0xC00B0064	ERR_PNIO_CMDEV_TCP_IP_SHUTDOWN The TCP/IP-Stack closed a socket needed for communication.
0xC00B0070	ERR_PNIO_CMDEV_AR_BLOCKTYPE The expected configuration block for AR in CMDEV_RMConnect_req_LoadAr() is missing.
0xC00B0071	ERR_PNIO_CMDEV_AR_BLOCKLEN The expected configuration block for AR in CMDEV_RMConnect_req_LoadAr() has an invalid length.
0xC00B0072	ERR_PNIO_CMDEV_AR_TYPE The configuration block for AR in CMDEV_RMConnect_req_LoadAr() has an invalid type.
0xC00B0073	ERR_PNIO_CMDEV_AR_UUID The configuration block for AR in CMDEV_RMConnect_req_LoadAr() has an invalid UUID.
0xC00B0074	ERR_PNIO_CMDEV_AR_PROPERTY The configuration block for AR in CMDEV_RMConnect_req_LoadAr() has an invalid network properties value.
0xC00B0075	ERR_PNIO_CMDEV_AR_REF_UNEXPECTED The AR-Reference for CMDEV protocol-machine is invalid.

Hexadecimal value	Definition and description
0xC00B0076	ERR_PNIO_CMDEV_AR_UUID_COMP_FAILED The UUID inside IO-Device's Connect-Confirmation is incorrect.
0xC00B0077	ERR_PNIO_CMDEV_AR_KEY_COMP_FAILED The session-key inside IO-Device's Connect-Confirmation is incorrect.
0xC00B0078	ERR_PNIO_CMDEV_AR_MAC_COMP_FAILED The MAC-address of IO-Device is incorrect.
0xC00B0080	ERR_PNIO_CMDEV_INSERT_MODULE_ERROR
0xC00B0081	ERR_PNIO_CMDEV_INSERT_SUBMODULE_ERROR
0xC00B0082	ERR_PNIO_CMDEV_MAX_API_LIMIT_EXCEEDED
0xC00B0083	ERR_PNIO_CMDEV_API_ALREADY_ADDED
0xC00B0084	ERR_PNIO_CMDEV_SLOT_OUT_OF_RANGE
0xC00B0085	ERR_PNIO_CMDEV_SUBSLOT_OUT_OF_RANGE
0xC00B0086	ERR_PNIO_CMDEV_SUBSLOT_ALREADY_EXISTS
0xC00B0087	ERR_PNIO_CMDEV_PACKET_WRONG_API
0xC00B0088	ERR_PNIO_CMDEV_PACKET_WRONG_SLOT
0xC00B0089	ERR_PNIO_CMDEV_PACKET_WRONG_SUBSLOT
0xC00B008A	ERR_PNIO_CMDEV_SLOT_ENTRY_NOT_FOUND
0xC00B008B	ERR_PNIO_CMDEV_SLOT_ALREADY_EXISTS
0xC00B008C	ERR_PNIO_CMDEV_SUBSLOT_ENTRY_NOT_FOUND
0xC00B008D	ERR_PNIO_CMDEV_FILTERED A CheckIndication shall not be forwarded to the user according to configuration.
0xC00B0090	ERR_PNIO_CMDEV_IOC_R_BLOCKLEN The expected configuration block for IOC_R in CMDEV_RMConnect_req_LoadIocr() has an invalid length.
0xC00B0091	ERR_PNIO_CMDEV_IOC_R_TYPE_UNSUPPORTED The type of IOC_R is unsupported.
0xC00B0092	ERR_PNIO_CMDEV_IOC_R_TYPE_UNKNOWN The type of IOC_R is unknown.
0xC00B0093	ERR_PNIO_CMDEV_IOC_R_RTCCLASS_UNSUPPORTED The RTC-class is unsupported.
0xC00B0094	ERR_PNIO_CMDEV_IOC_R_RTCCLASS_UNKNOWN The RTC-class is unknown.
0xC00B0095	ERR_PNIO_CMDEV_IOC_R_IFTYPE_UNSUPPORTED The expected configuration block for IOC_R in CMDEV_RMConnect_req_LoadIocr() has an unsupported interface-type.
0xC00B0096	ERR_PNIO_CMDEV_IOC_R_SCSYNC_UNSUPPORTED The expected configuration block for IOC_R in CMDEV_RMConnect_req_LoadIocr() has an unsupported value for SendClock.
0xC00B0097	ERR_PNIO_CMDEV_IOC_R_ADDRESS_UNSUPPORTED The expected configuration block for IOC_R in CMDEV_RMConnect_req_LoadIocr() has an unsupported Address-Resolution.
0xC00B0098	ERR_PNIO_CMDEV_IOC_R_REDUNDANCY_UNSUPPORTED The expected configuration block for IOC_R in CMDEV_RMConnect_req_LoadIocr() has an unsupported Media-Redundancy.
0xC00B0099	ERR_PNIO_CMDEV_IOC_R_REFERENCE No IOC_R could be found or created.
0xC00B009A	ERR_PNIO_CMDEV_IOC_R_OBJECT_IOD The expected configuration block for IOC_R in CMDEV_RMConnect_req_LoadIocr() does not contain any IO-Data.

Hexadecimal value	Definition and description
0xC00B009B	ERR_PNIO_CMDEV_IOCRR_OBJECT_IOS The expected configuration block for IOCRR in CMDEV_RMConnect_req_LoadIocrr() does not contain any IO-Status.
0xC00B009C	ERR_PNIO_CMDEV_IOCRR_API The expected configuration block for IOCRR in CMDEV_RMConnect_req_LoadIocrr() does not contain any API.
0xC00B0100	ERR_PNIO_CMDEV_FRAME_ID_COUNT_INVALID
0xC00B0101	ERR_PNIO_CMDEV_FRAME_ID_OUT_OF_RANGE
0xC00B0102	ERR_PNIO_CMDEV_RT_CLASS_NOT_SUPPORTED
0xC00B0103	ERR_PNIO_CMDEV_INSERT_AR_ERROR
0xC00B0104	ERR_PNIO_CMDEV_MAX_AR_LIMIT_EXCEEDED
0xC00B0105	ERR_PNIO_CMDEV_AR_INVALID
0xC00B0106	ERR_PNIO_CMDEV_IOCRR_INVALID
0xC00B0107	ERR_PNIO_CMDEV_TYPE_LEN_INVALID
0xC00B0108	ERR_PNIO_CMDEV_INVALID_CTRL_REQUEST_BLOCK
0xC00B0109	ERR_PNIO_CMDEV_MODULECONFIG_PACKET_INVALID
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 77: PNIO CTL status codes (CMDEV task)

3.8.3 PNIO APCTL

Hexadecimal value	Definition and description
0xC00C0001	ERR_PNIO_APCTL_COMMAND_INVALID Invalid command.
0xC00C0002	ERR_PNIO_APCTL_RSC_OUTOFMEMORY Insufficient memory to handle the request.
0xC00C0003	ERR_PNIO_APCTL_HIF_IDENT Error identifying HIF.
0xC00C0004	ERR_PNIO_APCTL_AREA_IDENT Unable to identify requested DPM Channel.
0xC00C0005	ERR_PNIO_APCTL_GETAREA_IDENT Unable to identify DPM section "STD INPUT".
0xC00C0006	ERR_PNIO_APCTL_SETAREA_IDENT Unable to identify DPM section "STD OUTPUT".
0xC00C0007	ERR_PNIO_APCTL_SETAREA_INFO_GET Unable to get configuration for DPM section "STD OUTPUT".
0xC00C0008	ERR_PNIO_APCTL_TOHOST_MBX_NAME_GET Unable to identify DPM section "TOHOST MBX".
0xC00C0009	ERR_PNIO_APCTL_TOHOST_MBX_INFO_GET Unable to get configuration for DPM section "TOHOST MBX".
0xC00C000A	ERR_PNIO_APCTL_MIDSYS_QUE_IDENT Unable to identify queue to MidSys.
0xC00C000B	ERR_PNIO_APCTL_ENABLE_BUSON_CBK Enabling callback function for ApplicationCOS.BUS_ON bit did not succeed.
0xC00C000C	ERR_PNIO_APCTL_ENABLE_APPREADY_CBK Enabling callback function for ApplicationCOS.APP_READY bit did not succeed.
0xC00C000D	ERR_PNIO_APCTL_COMMONAREA_IDENT Unable to identify DPM section "COMMON STATUS".
0xC00C000E	ERR_PNIO_APCTL_STATUSAREA_IDENT Unable to identify DPM section "EXTENDED STATUS".
0xC00C000F	ERR_PNIO_APCTL_CONTROLAREA_IDENT Unable to identify DPM section "CONTROL".
0xC00C0010	ERR_PNIO_APCTL_GETAREA_INT_ENBL Unable to enable DPM section "STD INPUT".
0xC00C0011	ERR_PNIO_APCTL_SETAREA_INT_ENBL Unable to enable DPM section "STD OUTPUT".
0xC00C0012	ERR_PNIO_APCTL_ENABLE_INIT_CBK Enabling callback function for ApplicationCOS.INITIALIZATION bit did not succeed.
0xC00C0013	ERR_PNIO_APCTL_VOL_IDENT Unable to identify SysVolume.
0xC00C0014	ERR_PNIO_APCTL_VOL_MOUNT Unable to mount SysVolume
0xC00C0015	ERR_PNIO_APCTL_FAT_FRMT Unable to format SysVolume.
0xC00C0016	ERR_PNIO_APCTL_QUE_CREATE The Queue for APCTL task could not be created.
0xC00C0017	ERR_PNIO_APCTL_CMCTL_QUE_IDENT The Queue for CMCTL task could not be identified.

Hexadecimal value	Definition and description
0xC00C0018	ERR_PNIO_APCTL_MGT_QUE_IDENT The Queue for MGT task could not be identified.
0xC00C0019	ERR_PNIO_APCTL_ACP_QUE_IDENT The Queue for ACP task could not be identified.
0xC00C001A	ERR_PNIO_APCTL_GETAREA_INFO_GET Unable to get configuration for DPM section "STD INPUT".
0xC00C001B	ERR_PNIO_APCTL_CLR_PCK_GET Unable to get a free packet from packet pool to unregister DPM channel from rcX.
0xC00C001C	ERR_PNIO_APCTL_SET_PCK_GET Unable to get a free packet from packet pool to register DPM channel from rcX.
0xC00C001D	ERR_PNIO_APCTL_IDENT_QUE_MIDSYS The Queue of rcX MidSys task could not be identified.
0xC00C001E	ERR_PNIO_APCTL_CREATE_TIMER_SET The timer for firmware-controlled handling of IO-data in DPM could not be created.
0xC00C001F	ERR_PNIO_APCTL_MEMALLOC_TIMER_SET Not enough free memory available for firmware-controlled handling of IO-data in DPM.
0xC00C0020	ERR_PNIO_APCTL_WDG_INIT The Watchdog timer could not be initialized.
0xC00C0021	ERR_INFO_FIELD_ONE_CREATE_FAILED The field for extended APCTL task status information could not be created.
0xC00C0022	ERR_INFO_FIELD_TWO_CREATE_FAILED An undefined field could not be created (unused).
0xC00C0023	ERR_PNIO_APCTL_POOL_CREATE The packet pool for APCTL task could not be created.
0xC00C0024	ERR_PNIO_APCTL_IOCRLIST The number of the input IOCRLs is not equal to the number of the output IOCRLs.
0xC00C0025	ERR_PNIO_APCTL_DPM The requested function is not supported because DPM is not initialized.
0xC00C0026	ERR_PNIO_APCTL_ENABLE_LOCKCONFIG_CBK Enabling callback function for ApplicationCOS.LOCK_CONFIGURATION bit did not succeed.
0xC00C0027	ERR_PNIO_APCTL_LED_CREATE The LEDs could not be initialized.
0xC00C0028	ERR_PNIO_APCTL_ENABLE_DMA_CBK Enabling callback function to enable DMA mode did not succeed.
0xC00C0030	ERR_PNIO_APCTL_RPC_REQUEST_LIMIT_REACHED Too many outstanding RPC-requests for this IO-Device.
0xC00C0031	ERR_PNIO_APCTL_PACKET_SEND_FAILED Error while sending internal message to another task.
0xC00C0032	ERR_PNIO_APCTL_INVALID_CMCTL_HANDLE The handle used for IO-Device is wrong.
0xC00C0033	ERR_PNIO_APCTL_INVALID_NAME_OF_STATION_LENGTH The name to be set has incorrect length.
0xC00C0034	ERR_PNIO_APCTL_DCP_REQUEST_LIMIT_REACHED Too many outstanding DCP-requests for this IO-Device.
0xC00C0035	ERR_PNIO_APCTL_OTHER_CONFIG_PACKET_IN_PROCESS Another configuration packet is in process wait for its confirmation packet.
0xC00C0036	ERR_PNIO_APCTL_APCFG_QUE_IDENT Identification of APCFG queue in remote resources failed.

Hexadecimal value	Definition and description
0xC00C0037	ERR_PNIO_APCTL_UNKNOWN_ALARM_SPECIFIER The Alarm specifier is unknown to IO-Controller.
0xC00C0038	ERR_PNIO_APCTL_DCP_REQUEST_NO_ANSWER The requested IO-Device did not answer to the DCP-requests.
0xC00C0040	ERR_PNIO_APCTL_APPLICATION_ALREADY_REGISTERED There is already an application registered to APCTL-Task.
0xC00C0041	ERR_PNIO_APCTL_NO_APPLICATION_REGISTERED There is no Application registered to APCTL-Task.
0xC00C0042	ERR_PNIO_APCTL_UNREGISTER_APPLICATION_IMPOSSIBLE It is impossible to unregister the Application in APCTL-Task. Either there is no Application registered or the Unregister Request was not sent by the registered Application.
0xC00C0050	ERR_PNIO_APCTL_CHANNEL_INIT_REQUESTED The request is rejected because a Channel Init was requested.
0xC00C0051	ERR_PNIO_APCTL_BUS_STATE_OFF The request is rejected because bus state is set OFF or a running request was interrupted by setting bus state to OFF.
0xC00C0052	ERR_PNIO_APCTL_CYCLIC_WATCHDOG_ERROR The connection to an IO-Device was closed because too many cyclic frames were missing.
0xC00C0053	ERR_PNIO_APCTL_CONNECTION_CLOSED_BY_IODEVICE The connection was shutdown by an IO-Device.
0xC00C0054	ERR_PNIO_APCTL_WATCHDOG_TIME_TOO_SMALL The watchdog time specified is too small.
0xC00C0055	ERR_PNIO_APCTL_WATCHDOG_TIME_TOO_BIG The watchdog time specified is too big.
0xC00C0056	ERR_PNIO_APCTL_IO_DEVICE_NOT_IN_DATAEXCHANGE The service is unavailable because the IO-Device is not in cyclic data exchange.
0xC00C0060	ERR_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	ERR_PNIO_APCTL_ACYCLIC_REQ_FAILED_RPC The acyclic service failed. The RPC-layer detected an error which is contained in confirmation packet.
0xC00C0062	ERR_PNIO_APCTL_ACYCLIC_REQ_FAILED_INTERNAL The acyclic service failed. An internal error occurred.
0xC00C0063	ERR_PNIO_APCTL_TOO_MUCH_IO_DATA_CONFIGURED The maximum supported IO-data size is exceeded.
0xC00C0064	ERR_PNIO_APCTL_INVALID_IP_ADDRESS The IP address is invalid.
0xC00C0065	ERR_PNIO_APCTL_INVALID_NETMASK The Netmask is invalid.
0xC00C0066	ERR_PNIO_APCTL_INVALID_GATEWAY The gateway address is invalid.
0xC00C0067	ERR_PNIO_APCTL_TOO_MUCH_DATA_REQUESTED The maximum supported data size for this service is exceeded.
0xC00C0068	ERR_PNIO_APCTL_CHANNEL_INIT_RUNNING The request cannot be handled because a ChannelInit is currently running.
0xC00C0069	ERR_PNIO_APCTL_SEND_CMCTL_CHANNEL_INIT_FAILED Internal sending of Channel Init to CMCTL failed.

Hexadecimal value	Definition and description
0xC00C006A	ERR_PNIO_APCTL_SEND_APCFG_CHANNEL_INIT_FAILED Internal sending of Channel Init to APCFG failed.
0xC00C006B	ERR_PNIO_APCTL_EMPTY_CONFIGURATION A configuration without IO-Devices has been detected.

Table 78: PNIO APCTL diagnostic status codes

3.8.4 ACP Task

Hexadecimal value	Definition and description
0xC0110010	ERR_PNIO_ACP_PHASE_OUT_OF_MEMORY Insufficient memory to initialize ACP-phase.
0xC0110011	ERR_PNIO_ACP_PHASE_REDUCTION_RATIO Invalid reduction-ratio (uiMaxRatio) in ACP_PhaseInit().
0xC0110012	ERR_PNIO_ACP_PHASE_SEND_CLOCK_FACTOR Invalid sendClock-factor (uiScFact) in ACP_PhaseInit().
0xC0110013	ERR_PNIO_ACP_PHASE_FRAME_RESOURCES Invalid parameter (uiMaxFrame) in ACP_PhaseInit().
0xC0110014	ERR_PNIO_ACP_PACKET_SEND_FAILED Error sending a packet to another task in ACP task.
0xC0110015	ERR_PNIO_ACP_RESOURCE_OUT_OF_MEMORY Insufficient memory in ACP task.
0xC0110016	ERR_PNIO_ACP_DRV_EDD_IOCTL_ERROR
0xC0110017	ERR_PNIO_SYNC_LOAD_IRT_DATA_ERROR
0xC0110018	ERR_PNIO_ACP_EMPTY_POOL_DETECTED The packet pool of ACP is empty.
0xC0110020	ERR_PNIO_ALARM_PARAM_INVALID_INIT Invalid parameter "uiMaxAlpm" in Alarm_ResourceInit().
0xC0110021	ERR_PNIO_ALARM_RESOURCE_OUT_OF_MEMORY Insufficient memory in Alarm_ResourceInit().
0xC0110030	ERR_PNIO_ALPMR_PRIORITY_INVALID Invalid alarm priority in request packet of ALPMR_AlarmAck_req().
0xC0110031	ERR_PNIO_ALPMR_RESOURCE_LIMIT_EXCEEDED The requested number of ALPMR protocol machines exceeds the highest possible number in ALPMR_Init_req().
0xC0110032	ERR_PNIO_ALPMR_RESOURCE_OUT_OF_MEMORY Insufficient memory in ALPMR_Init_req().
0xC0110033	ERR_PNIO_ALPMR_HANDLE_INVALID The ALPMR protocol-machine corresponding to the index in request packet is invalid.
0xC0110034	ERR_PNIO_ALPMR_STATE_INVALID The ALPMR protocol-machine state is invalid for the current request.
0xC0110035	ERR_PNIO_ALPMR_PACKET_SEND_FAILED Sending an Alarm-Indication-packet to another task failed in ALPMR.
0xC0110036	ERR_PNIO_ALPMR_PACKET_OUT_OF_MEMORY Creating an Alarm-Indication-packet to be send to another task failed due to insufficient memory.
0xC0110037	ERR_PNIO_ALPMR_RESOURCE_INDEX_INVALID The index of ALPMR's protocol machine is invalid.
0xC0110040	ERR_PNIO_APMR_PARAM_INVALID_INIT The parameter uiMaxApmr (maximum number of parallel APMR protocol-machines) in APMR_ResourceInit() is invalid.
0xC0110041	ERR_PNIO_APMR_RESOURCE_OUT_OF_MEMORY Insufficient memory in APMR_ResourceInit() to create the APMR protocol machines.
0xC0110042	ERR_PNIO_APMR_HANDLE_INVALID The APMR protocol machine or its index is invalid.
0xC0110043	ERR_PNIO_APMR_STATE_INVALID The state of APMR protocol machine is invalid for current request.

Hexadecimal value	Definition and description
0xC0110044	ERR_PNIO_APMR_FRAME_SEND_FAILED Sending an ACK or NAK in response to a received Alarm-PDU failed.
0xC0110050	ERR_PNIO_APMS_PARAM_INVALID_INIT The parameter uiMaxApms (maximum number of parallel APMS protocol-machines) in APMS_ResourceInit() is invalid.
0xC0110051	ERR_PNIO_APMS_RESOURCE_OUT_OF_MEMORY Insufficient memory in APMS_ResourceInit() to create the APMS protocol machines.
0xC0110052	ERR_PNIO_APMS_HANDLE_INVALID The APMS protocol machine or its index is invalid.
0xC0110053	ERR_PNIO_APMS_STATE_INVALID The state of APMS protocol machine is invalid for current request.
0xC0110054	ERR_PNIO_APMS_FRAME_OUT_OF_MEMORY APMS was not able to get an Edd_FrameBuffer for sending a packet.
0xC0110055	ERR_PNIO_APMS_FRAME_SEND_FAILED An error occurred while APMS was trying to send an Edd_Frame.
0xC0110056	ERR_PNIO_APMS_TIMER_CREATE_FAILED APMS_Activate_req() was not able to create a TLR-Timer.
0xC0110057	ERR_PNIO_APMS_TIMER_OUT_OF_MEMORY Insufficient memory for APMS_Send_req_Data() to allocate a timer-indication packet.
0xC0110058	ERR_PNIO_APMS_INDEX_INVALID
0xC0110060	ERR_PNIO_CPM_PARAM_INVALID_INIT The parameter uiMaxCpmRtc1 and/or uiMaxCpmRtc2 of CPM_ResourceInit() is invalid.
0xC0110061	ERR_PNIO_CPM_PARAM_INVALID_CLASS The requested RTC-class is invalid in CPM_Init_req().
0xC0110062	ERR_PNIO_CPM_RESOURCE_LIMIT_EXCEEDED The requested amount of CPM protocol machines is higher than the highest possible value.
0xC0110063	ERR_PNIO_CPM_RESOURCE_OUT_OF_MEMORY Insufficient memory for current request in CPM.
0xC0110064	ERR_PNIO_CPM_HANDLE_INVALID The handle to CPM protocol machine is invalid.
0xC0110065	ERR_PNIO_CPM_STATE_INVALID The state of CPM protocol machine is incorrect for current request.
0xC0110066	ERR_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	ERR_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	ERR_PNIO_CPM_DATALEN_LIMIT_EXCEEDED Packet size to receive is too big. Error is detected in CPM_Init_req().
0xC011006A	ERR_PNIO_CPM_PACKET_SEND_FAILED Error while sending a packet to another task in CPM.
0xC0110080	ERR_PNIO_PPM_PARAM_INVALID_INIT The parameter "uiMaxPPMRtc1" and/or "uiMaxPPMRtc2" of PPM_ResourceInit() is invalid.
0xC0110081	ERR_PNIO_PPM_PARAM_INVALID_CLASS The requested RTC-class is invalid in PPM_Init_req().
0xC0110082	ERR_PNIO_PPM_RESOURCE_LIMIT_EXCEEDED The requested amount of PPM protocol machines is higher than the highest possible value.

Hexadecimal value	Definition and description
0xC0110083	ERR_PNIO_PPM_RESOURCE_OUT_OF_MEMORY Insufficient memory for current request in PPM.
0xC0110084	ERR_PNIO_PPM_HANDLE_INVALID The handle to PPM protocol machine is invalid.
0xC0110085	ERR_PNIO_PPM_STATE_INVALID The state of PPM protocol machine is incorrect for current request.
0xC0110086	ERR_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	ERR_PNIO_PPM_SEND_CLOCK_LIMIT_EXCEEDED The SendClock-factor in PPMs Init-request-packet does not match the one in ACP_Tasks' resources.
0xC0110089	ERR_PNIO_PPM_DATALEN_LIMIT_EXCEEDED Packet size to send is too big. Error is detected in PPM_Init_req().
0xC011008A	ERR_PNIO_PPM_RESOURCE_CLASS_INVALID
0xC0110090	ERR_PNIO_ALPMI_PRIORITY_INVALID Invalid alarm priority in request packet of ALPMI_AlarmAck_req().
0xC0110091	ERR_PNIO_ALPMI_RESOURCE_LIMIT_EXCEEDED The requested number of ALPMI protocol machines exceeds the highest possible number in ALPMI_Init_req().
0xC0110092	ERR_PNIO_ALPMI_RESOURCE_OUT_OF_MEMORY Insufficient memory in ALPMI_Init_req().
0xC0110093	ERR_PNIO_ALPMI_HANDLE_INVALID The ALPMI protocol-machine corresponding to the index in request packet is invalid.
0xC0110094	ERR_PNIO_ALPMI_STATE_INVALID The ALPMI protocol-machine state is invalid for the current request.
0xC0110095	ERR_PNIO_ALPMI_PACKET_SEND_FAILED Sending an Alarm-Indication-packet to another task failed in ALPMI.
0xC0110096	ERR_PNIO_ALPMI_PACKET_OUT_OF_MEMORY Creating an Alarm-Indication-packet to be sent to another task failed due to insufficient memory.
0xC0110097	ERR_PNIO_ALPMI_RESOURCE_INDEX_INVALID The index of ALPMI's protocol machine is invalid.
0xC011F001	ERR_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.

Hexadecimal value	Definition and description
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 79: ACP task

3.8.5 DCP Task

Hexadecimal value	Definition and description
0xC012000A	ERR_PNIO_DCP_PARAM_INVALID_EDD Invalid parameter in Start-Edd-packet for DCP_StartEDD_req().
0xC0120010	ERR_PNIO_DCPMCR_INIT_PARAM_INVALID Invalid parameter (uiMaxMcr) in DCPMCR_ResourceInit().
0xC0120011	ERR_PNIO_DCPMCR_INIT_OUT_OF_MEMORY Insufficient memory to initialize DCPMCR protocol machines in DCPMCR_ResourceInit().
0xC0120012	ERR_PNIO_DCPMCR_RESOURCE_LIMIT_EXCEEDED The index of DCPMCR's protocol machine is invalid.
0xC0120013	ERR_PNIO_DCPMCR_RESOURCE_OUT_OF_MEMORY Insufficient memory for request in DCPMCR_Activate_req().
0xC0120014	ERR_PNIO_DCPMCR_RESOURCE_STATE_INVALID The state of DCPMCR protocol machine is incorrect for current request.
0xC0120015	ERR_PNIO_DCPMCR_RESOURCE_HANDLE_INVALID The handle to DCPMCR protocol machine is invalid.
0xC0120016	ERR_PNIO_DCPMCR_TIMER_CREATE_FAILED DCPMCR_Activate_req() was unable to create a TLR-timer.
0xC0120017	ERR_PNIO_DCPMCR_TIMER_OUT_OF_MEMORY Insufficient memory for DCPMCR_Identify_ind() to allocate a timer-indication packet.
0xC0120018	ERR_PNIO_DCPMCR_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet to be sent to another task in DCPMCR.
0xC0120019	ERR_PNIO_DCPMCR_PACKET_SEND_FAILED Error while sending a packet to another task in DCPMCR.
0xC012001A	ERR_PNIO_DCPMCR_FRAME_OUT_OF_MEMORY DCPMCR was not able to get an Edd_FrameBuffer for sending a packet.
0xC012001B	ERR_PNIO_DCPMCR_FRAME_SEND_FAILED An error occurred while DCPMCR was trying to send an Edd_Frame.
0xC012001C	ERR_PNIO_DCPMCR_WAIT_ACK DCPMCR could not be closed because it is still waiting for an ACK.
0xC012001D	ERR_PNIO_DCPMCR_TASK_RES_ADDRESS DCPMCR: Invalid parameter (task resources block address) while handling DCP Identify indication.
0xC012001E	ERR_PNIO_DCPMCR_EDD_FRAME_ADDRESS DCPMCR: Invalid parameter (EDD frame address) while handling DCP Identify indication.
0xC012001F	ERR_PNIO_DCPMCR_MCR_ADDRESS DCPMCR: Invalid parameter (DCPMCR state machine address) while handling DCP Identify indication.
0xC0120020	ERR_PNIO_DCPMCR_RMPM_ADDRESS DCPMCR: Invalid parameter (RMPM state machine address) while handling DCP Identify indication.
0xC0120021	ERR_PNIO_DCP_EMPTY_POOL_DETECTED The packet pool of DCP is empty.
0xC0120100	ERR_PNIO_DCPMCS_INIT_PARAM_INVALID Invalid parameter (uiMaxMcs) in DCPMCS_ResourceInit().
0xC0120101	ERR_PNIO_DCPMCS_INIT_OUT_OF_MEMORY Insufficient memory to initialize DCPMCS protocol machines in DCPMCS_ResourceInit().
0xC0120102	ERR_PNIO_DCPMCS_RESOURCE_LIMIT_EXCEEDED There are too many outstanding DCPMCS requests. New requests will not be accepted.

Hexadecimal value	Definition and description
0xC0120103	ERR_PNIO_DCPMCS_RESOURCE_OUT_OF_MEMORY Insufficient memory for request in DCPMCS_Activate_req().
0xC0120104	ERR_PNIO_DCPMCS_RESOURCE_STATE_INVALID The state of DCPMCS protocol machine is incorrect for current request.
0xC0120105	ERR_PNIO_DCPMCS_RESOURCE_HANDLE_INVALID The handle to DCPMCS protocol machine is invalid.
0xC0120106	ERR_PNIO_DCPMCS_TIMER_CREATE_FAILED DCPMCS_Activate_req() was unable to create a TLR-timer.
0xC0120107	ERR_PNIO_DCPMCS_TIMER_OUT_OF_MEMORY Insufficient memory for DCPMCS_Identify_req() to allocate a timer-indication packet.
0xC0120108	ERR_PNIO_DCPMCS_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet to be sent to another task in DCPMCS.
0xC0120109	ERR_PNIO_DCPMCS_PACKET_SEND_FAILED Error while sending a packet to another task in DCPMCS.
0xC012010A	ERR_PNIO_DCPMCS_FRAME_OUT_OF_MEMORY DCPMCS was not able to get an Edd_FrameBuffer for sending a packet.
0xC012010B	ERR_PNIO_DCPMCS_FRAME_SEND_FAILED An error occurred while DCPMCS was trying to send an Edd_Frame.
0xC0120150	ERR_PNIO_DCPHMCS_RESOURCE_STATE_INVALID The state of DCPHMCS protocol machine is incorrect for current request.
0xC0120151	ERR_PNIO_DCPHMCS_PACKET_SEND_FAILED Error while sending a packet to another task in DCPHMCS.
0xC0120152	ERR_PNIO_DCPHMCS_FRAME_OUT_OF_MEMORY DCPHMCS was not able to get an Edd_FrameBuffer for sending a packet.
0xC0120153	ERR_PNIO_DCPHMCS_FRAME_SEND_FAILED An error occurred while DCPHMCS was trying to send an Edd_Frame.
0xC0120200	ERR_PNIO_DCPUCR_INIT_PARAM_INVALID Invalid parameter (uiMaxUcr) in DCPUCR_ResourceInit().
0xC0120201	ERR_PNIO_DCPUCR_INIT_OUT_OF_MEMORY Insufficient memory to initialize DCPUCR protocol machines in DCPUCR_ResourceInit().
0xC0120202	ERR_PNIO_DCPUCR_RESOURCE_LIMIT_EXCEEDED The index of DCPUCR's protocol machine is invalid.
0xC0120203	ERR_PNIO_DCPUCR_RESOURCE_OUT_OF_MEMORY Insufficient memory for request in DCPUCR_Activate_req().
0xC0120204	ERR_PNIO_DCPUCR_RESOURCE_STATE_INVALID The state of DCPUCR protocol machine is incorrect for current request.
0xC0120205	ERR_PNIO_DCPUCR_RESOURCE_HANDLE_INVALID The handle to DCPUCR protocol machine is invalid.
0xC0120206	ERR_PNIO_DCPUCR_TIMER_CREATE_FAILED DCPUCR_Activate_req() was unable to create a TLR-timer.
0xC0120207	ERR_PNIO_DCPUCR_TIMER_OUT_OF_MEMORY Insufficient memory to allocate a timer-indication packet.
0xC0120208	ERR_PNIO_DCPUCR_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet to be sent to another task in DCPUCR.
0xC0120209	ERR_PNIO_DCPUCR_PACKET_SEND_FAILED Error while sending a packet to another task in DCPUCR.
0xC012020A	ERR_PNIO_DCPUCR_FRAME_OUT_OF_MEMORY DCPUCR was not able to get an Edd_FrameBuffer for sending a packet.

Hexadecimal value	Definition and description
0xC012020B	ERR_PNIO_DCPUCR_FRAME_SEND_FAILED An error occurred while DCPUCR was trying to send an Edd_Frame.
0xC012020C	ERR_PNIO_DCPUCR_SERVICE_INVALID The DCP-command of received response does not match the outstanding request in DCPUCR.
0xC012020D	ERR_PNIO_DCPUCR_WAIT_ACK DCPUCR could not be closed because it is still waiting for an ACK.
0xC0120300	ERR_PNIO_DCPUCS_INIT_PARAM_INVALID Invalid parameter (uiMaxUcs) in DCPUCS_ResourceInit().
0xC0120301	ERR_PNIO_DCPUCS_INIT_OUT_OF_MEMORY Insufficient memory to initialize DCPUCS protocol machines in DCPUCS_ResourceInit().
0xC0120302	ERR_PNIO_DCPUCS_RESOURCE_LIMIT_EXCEEDED There are too many outstanding DCPUCS requests. New requests will not be accepted.
0xC0120303	ERR_PNIO_DCPUCS_RESOURCE_OUT_OF_MEMORY Insufficient memory for request in DCPUCS_Activate_req().
0xC0120304	ERR_PNIO_DCPUCS_RESOURCE_STATE_INVALID The state of DCPUCS protocol machine is incorrect for current request.
0xC0120305	ERR_PNIO_DCPUCS_RESOURCE_HANDLE_INVALID The handle to DCPUCS protocol machine is invalid.
0xC0120306	ERR_PNIO_DCPUCS_TIMER_CREATE_FAILED DCPUCS_Activate_req() was unable to create a TLR-timer.
0xC0120307	ERR_PNIO_DCPUCS_TIMER_OUT_OF_MEMORY Insufficient memory for DCPUCS_DataSend_req() to allocate a timer-indication packet.
0xC0120308	ERR_PNIO_DCPUCS_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet to be sent to another task in DCPUCS.
0xC0120309	ERR_PNIO_DCPUCS_PACKET_SEND_FAILED Error while sending a packet to another task in DCPUCS.
0xC012030A	ERR_PNIO_DCPUCS_FRAME_OUT_OF_MEMORY DCPUCS was not able to get an Edd_FrameBuffer for sending a packet.
0xC012030B	ERR_PNIO_DCPUCS_FRAME_SEND_FAILED An error occurred while DCPUCS was trying to send an Edd_Frame.
0xC012030C	ERR_PNIO_DCPUCS_FRAME_TIMEOUT DCPUCS did not get a response to an Edd_Frame sent.
0xC0120320	ERR_PNIO_DCPUCS_DCP_OPTION_UNSUPPORTED The DCP option to be set is not supported by IO-Device.
0xC0120321	ERR_PNIO_DCPUCS_DCP_SUBOPTION_UNSUPPORTED The DCP suboption to be set is not supported by IO-Device.
0xC0120022	ERR_PNIO_DCPUCS_DCP_SUBOPTION_NOT_SET The DCP suboption to be set was not set inside IO-Device.
0xC0120023	ERR_PNIO_DCPUCS_DCP_RESOURCE_ERROR An internal resource error occurred in IO-Device while performing a DCP request.
0xC0120024	ERR_PNIO_DCPUCS_DCP_SET_IMPOSSIBLE_LOCAL_REASON The DCP (sub)option could not be set inside IO-Device for IO-Device internal reasons.
0xC0120025	ERR_PNIO_DCPUCS_DCP_SET_IMPOSSIBLE_WHILE_OPERATION The DCP (sub)option could not be set inside IO-Device because IO-Device is in operation.
0xC012F001	ERR_PNIO_DCP_COMMAND_INVALID Received invalid command in DCP task.
0xC012F010	TLR_DIAG_E_DCP_TASK_UCS_RESOURCE_INIT_FAILED Failed to initialize DCPUCS.

Hexadecimal value	Definition and description
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 80: DCP task

3.8.6 MGT Task

Hexadecimal value	Definition and description
0xC0130001	ERR_PNIO_MGT_PACKET_SEND_FAILED ACP_EDDStartDCP_req() was unable to send request packet to DCP-Task.
0xC0130002	ERR_PNIO_MGT_WAIT_FOR_PACKET_FAILED
0xC0130003	ERR_PNIO_MGT_CMDEV_HANDLE_INVALID
0xC0130004	ERR_PNIO_MGT_MAPPER_REGISTER_ERROR
0xC0130005	ERR_PNIO_MGT_SERVER_REGISTER_ERROR
0xC0130006	ERR_PNIO_MGT_OBJECT_REGISTER_ERROR
0xC0130007	ERR_PNIO_MGT_CLIENT_REGISTER_ERROR
0xC0130008	ERR_PNIO_MGT_OPCODE_UNKNOWN
0xC0130009	ERR_PNIO_MGT_RPCCLIENT_HANDLE_INVALID
0xC013000A	ERR_PNIO_MGT_OBJECT_UUID_NOT_FOUND
0xC013000B	ERR_PNIO_MGT_ARUUID_NOT_FOUND
0xC013000C	ERR_PNIO_MGT_INVALID_PORT_NUMBER
0xC013000D	ERR_PNIO_MGT_DRV_EDD_IOCTL_ERROR
0xC013000E	ERR_PNIO_MGT_INVALID_SESSION_KEY
0xC013000F	ERR_PNIO_MGT_TARGET_UUID_NOT_NIL
0xC0130010	ERR_PNIO_NRPM_PARAM_INVALID_INIT Invalid parameter (uiMaxNrpm) in NRPM_ResourceInit().
0xC0130011	ERR_PNIO_NRPM_HANDLE_INVALID The handle to NRPM protocol machine is invalid.
0xC0130012	ERR_PNIO_NRPM_STATE_INVALID The state of NRPM protocol machine is invalid.
0xC0130013	ERR_PNIO_NRPM_IDENTIFY_FLAG_INVALID The identify-flag in NRPM_Init_req() is invalid.
0xC0130014	ERR_PNIO_NRPM_RESOURCE_LIMIT_EXCEEDED The requested number of NRPM protocol machines exceeds the highest possible number in NRPM_Init_req().
0xC0130015	ERR_PNIO_NRPM_RESOURCE_OUT_OF_MEMORY Insufficient memory in NRPM_Init_req().
0xC0130016	ERR_PNIO_NRPM_PACKET_SEND_FAILED Error while sending a packet to another task in NRPM.
0xC0130017	ERR_PNIO_NRPM_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet in NRPM.
0xC0130018	ERR_PNIO_NRPM_DCP_TYPE_INVALID Received request with invalid type of DCP request in NRPM.
0xC0130019	ERR_PNIO_NRPM_NAME_OF_STATION_INVALID The requested NameOfStation is invalid. Either it has an invalid length or it contains invalid characters.
0xC013001A	ERR_PNIO_NRPM_DCP_SET_ERROR The requested DCP Set operation failed.
0xC013001B	ERR_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.
0xC013001C	ERR_PNIO_NRPM_LATE_ERROR_INCONSISTENT_IP_PARAMETERS The IP parameters of HelloReq and IdentifyRsp are inconsistent.
0xC013001D	ERR_PNIO_NRPM_LATE_ERROR_IP_LOOKUP_MAC_CONFLICT While checking the IP an invalid MAC address was found.

Hexadecimal value	Definition and description
0xC013001E	ERR_PNIO_NRPM_LATE_ERROR_IP_LOOKUP_STATION_NOT_FOUND Late error detected while checking the IP. No station was found.
0xC013001F	ERR_PNIO_NRPM_LATE_ERROR_IP_LOOKUP_MULTIPLE_STATIONS_FOUND Late error detected while checking the IP. Multiple stations were found.
0xC01300F0	ERR_PNIO_MGT_EMPTY_POOL_DETECTED The packet pool of MGT is empty.
0xC01300F1	ERR_PNIO_MGT_INVALID_DEV_INDEX The index of the device is invalid.
0xC0130101	ERR_PNIO_RMPM_HANDLE_INVALID The handle to RMPM is invalid.
0xC0130102	ERR_PNIO_RMPM_STATE_INVALID The state of RMPM is invalid for current request.
0xC0130103	ERR_PNIO_RMPM_STATE_CLOSING The state of RMPM is closed
0xC0130104	ERR_PNIO_RMPM_RESOURCE_LIMIT_EXCEEDED The number of RMPM state-machines is too high.
0xC0130105	ERR_PNIO_RMPM_RESOURCE_OUT_OF_MEMORY Insufficient memory to fulfill the current request in RMPM.
0xC0130106	ERR_PNIO_RMPM_PACKET_SEND_FAILED Error while sending a packet to another task in RMPM.
0xC0130107	ERR_PNIO_RMPM_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet in RMPM.
0xC0130108	ERR_PNIO_RMPM_ROLE_UNSUPPORTED The parameter "role" is unsupported in RMPM_Init_req_ParameterRole() .
0xC0130109	ERR_PNIO_RMPM_ROLE_UNKNOWN The parameter "role" is unknown in RMPM_Init_req_ParameterRole() .
0xC013010A	ERR_PNIO_RMPM_ROLE_IN_USE The parameter "role" is already in use in RMPM_Init_req_ParameterRole() .
0xC013010B	ERR_PNIO_RMPM_CONFIG_SEQUENCE Incorrect sequence of configuration in RMPM_ConfigSet_req().
0xC013010C	ERR_PNIO_RMPM_CONFIG_INVALID_VENDOR_ID Incorrect configuration of Vendor-ID in RMPM_ConfigSet_req().
0xC013010D	ERR_PNIO_RMPM_CONFIG_INVALID_NAME Incorrect name of station in RMPM_ConfigSet_req().
0xC013010E	ERR_PNIO_RMPM_CONFIG_INVALID_TYPE Incorrect name of type in RMPM_ConfigSet_req().
0xC0130110	ERR_PNIO_RMPM_DUPLICATE_NAME_OF_STATION The NameOfStation of IO-Controller is in use by another network device.
0xC0130111	ERR_PNIO_RMPM_DUPLICATE_IP The IP address the IO-Controller shall use is in use by another network device.
0xC0130112	ERR_PNIO_RMPM_RPC_PACKET_INVALID The packet length of an RPC-packet received is invalid (most likely too short).
0xC0130113	ERR_PNIO_RMPM_DCP_PACKET_INVALID The packet length of a DCP-packet received is invalid (most likely too short).
0xC0130120	ERR_PNIO_RMPM_INVALID_IP_ADDRESS The IP address is invalid.
0xC0130121	ERR_PNIO_RMPM_INVALID_NETMASK The network mask is invalid.

Hexadecimal value	Definition and description
0xC0130122	ERR_PNIO_RMPM_INVALID_GATEWAY The gateway address is invalid.
0xC0130200	ERR_PNIO_NRMC_PARAM_INVALID_INIT
0xC0130201	ERR_PNIO_NRMC_HANDLE_INVALID The handle to NRMC is invalid.
0xC0130202	ERR_PNIO_NRMC_STATE_INVALID The state of NRMC is invalid for current request.
0xC0130203	ERR_PNIO_NRMC_IDENTIFY_FLAG_INVALID
0xC0130204	ERR_PNIO_NRMC_RESOURCE_LIMIT_EXCEEDED The number of NRMC state-machines is too high.
0xC0130205	ERR_PNIO_NRMC_RESOURCE_OUT_OF_MEMORY Insufficient memory to fulfill the current request in NRMC.
0xC0130206	ERR_PNIO_NRMC_PACKET_SEND_FAILED Error while sending a packet to another task in NRMC.
0xC0130207	ERR_PNIO_NRMC_PACKET_OUT_OF_MEMORY Insufficient memory to allocate a packet in NRMC.
0xC0130208	ERR_PNIO_NRMC_DCP_TYPE_INVALID
0xC013F001	ERR_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 81: MGT task

3.8.7 PNIO APCFG

Hexadecimal value	Definition and description
0xC0140001	ERR_PNIO_APCFG_COMMAND_INVALID Invalid command.
0xC0140002	ERR_PNIO_APCFG_DBM_UNKNOWN_VERSION Unknown DBM version.
0xC0140003	ERR_PNIO_APCFG_DBM_NO_DATASET No dataset exists.
0xC0140004	ERR_PNIO_APCFG_DBM_WRONG_SIZE_OF_DATASET Wrong size of DBM dataset.
0xC0140005	ERR_PNIO_APCFG_DBM_WRONG_LEN_TYPEOFSTATION Type of station is too large.
0xC0140006	ERR_PNIO_APCFG_DBM_WRONG_LEN_NAMEOFSTATION Name of station is too large.
0xC0140007	ERR_PNIO_APCFG_DBM_UNKNOWN_IOCR_KEY Unknown IOCRR relationship in submodule description.
0xC0140008	ERR_PNIO_APCFG_DBM_IOCRR_ALREADY_IN_USE IOCRR is in use by another IO-Device.
0xC0140009	ERR_PNIO_APCFG_DBM_WRONG_IOCRR_IN_SUBMDESCR Wrong IO-Type of IOCRR in submodule description.
0xC014000A	ERR_PNIO_APCFG_DBM_WRONG_DATALEN_IN_SUBMDESCR Wrong data length in submodule description.
0xC014000B	ERR_PNIO_APCFG_DBM_WRONG_DATADESCR_IN_SUBMDESCR Wrong IO-type in data description of the submodule description.
0xC014000C	ERR_PNIO_APCFG_DBM_UNEXP_SUBMDESCR Unexpected submodule description.
0xC014000D	ERR_PNIO_APCFG_DBM_MISSING_SUBMDESCR Missing submodule description.
0xC014000E	ERR_PNIO_APCFG_DBM_ASSERTION_FAILED Assertion failed.
0xC014000F	ERR_PNIO_APCFG_PKT_UNEXP_TREE_IDENTIFICATON Wrong sequence/numbering in the tree identification numbers.
0xC0140010	ERR_PNIO_APCFG_PKT_OVERWRITING_CONSISTING_DATA Addressed dataset already exists and is to be overwritten.
0xC0140011	ERR_PNIO_APCFG_PKT_MISSING_IOCRR Input or output IOCRR of module is missing.
0xC0140012	ERR_PNIO_APCFG_PKT_WRONG_IO_TYPE_IN_IOCRR Wrong input or output type in IOCRR.
0xC0140013	ERR_PNIO_APCFG_PKT_WRONG_SEQUENCE_OF_FRAGMENTED_PACKETS Wrong sequence of fragmented packets.
0xC0140014	ERR_PNIO_APCFG_PKT_WRONG_FRAGMENT_IDENTIFIER Wrong fragment identifier in fragmented packets.
0xC0140015	ERR_PNIO_APCFG_PKT_CONFIGURATION_IS_ALREADY_DONE_VIA_DBM Configuration is already done via DBM configuration packets are not accepted.
0xC0140016	ERR_PNIO_APCFG_DBM_INCOMPLETE_CONFIGURATION Incomplete configuration - not all devices are fully developed until submodule descriptions.
0xC0140017	ERR_PNIO_APCFG_PKT_DOWNLOAD_ALREADY_FINISHED Packet download is already finished by download finish request.

Hexadecimal value	Definition and description
0xC0140018	ERR_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	ERR_PNIO_APCFG_DBM_UNEXP_SIGNAL_ATTRIBUT Unexpected parameter Signal_Attrib in SIGNALS table.
0xC014001A	ERR_PNIO_APCFG_DBM_IMPROPER_DPM_OFFSETS_AND_DATA_LENGTHS_IN_SIGNALS Improper DPM offset and data length in SIGNALS.
0xC0140020	ERR_PNIO_APCFG_DBM_WRONG_TEST_DATA Wrong test data.
0xC0140021	ERR_PNIO_APCFG_DBM_INVALID_IO_DEVICE_AMOUNT Too many IO-Devices are configured.
0xC0140030	ERR_PNIO_APCFG_RESOURCE_OUT_OF_MEMORY Not enough memory available for current request.
0xC0140031	ERR_PNIO_APCFG_PACKET_SEND_FAILED Error while sending internal message to another task.
0xC0140040	ERR_PNIO_APCFG_INVALID_NAME_OF_STATION_LENGTH The length of parameter NameOfStation is invalid.
0xC0140041	ERR_PNIO_APCFG_INVALID_NAME_OF_STATION_CHARACTER The NameOfStation contains an invalid character.
0xC0140042	ERR_PNIO_APCFG_INVALID_TYPE_OF_STATION_LENGTH The length of parameter TypeOfStation is invalid.
0xC0140043	ERR_PNIO_APCFG_INVALID_TYPE_OF_STATION_CHARACTER The TypeOfStation contains an invalid character.
0xC0140044	ERR_PNIO_APCFG_INVALID_SYSTEMFLAGS The parameter SystemFlags is invalid.
0xC0140045	ERR_PNIO_APCFG_INVALID_WATCHDOG_TIME The parameter WatchdogTime is invalid.
0xC0140046	ERR_PNIO_APCFG_INVALID_VENDORID The Parameter VendorID is invalid.
0xC0140047	ERR_PNIO_APCFG_INVALID_DEVICEID The parameter DeviceID is invalid.
0xC0140048	ERR_PNIO_APCFG_INVALID_IP_ADDRESS The IP-Address to use is invalid.
0xC0140049	ERR_PNIO_APCFG_INVALID_NETMASK The NetworkMask to use is invalid.
0xC014004A	ERR_PNIO_APCFG_INVALID_GATEWAY The Gateway-Address to use is invalid or unreachable.
0xC014004B	ERR_PNIO_APCFG_INVALID_IP_FLAGS The parameter IPFlags is invalid.
0xC014004C	ERR_PNIO_APCFG_INVALID_NAME_OF_STATION_STARTLABEL The NameOfStation shall not start with - . or port-xyz.
0xC014004D	ERR_PNIO_APCFG_NAME_OF_STATION_LABEL_TOO_SHORT One label of NameOfStation is too short.
0xC014004E	ERR_PNIO_APCFG_NAME_OF_STATION_LABEL_TOO_LONG One label of NameOfStation is too long.
0xC014004F	ERR_PNIO_APCFG_NAME_OF_STATION_TOO_MANY_LABELS The NameOfStation contains too many labels.
0xC0140050	ERR_PNIO_APCFG_INVALID_RTA_RETRIES The parameter RTARetries is invalid.

Hexadecimal value	Definition and description
0xC0140051	ERR_PNIO_APCFG_INVALID_RTA_TIMEOUT The parameter RTATimeout is invalid.
0xC0140052	ERR_PNIO_APCFG_INVALID_AR_PROPERTIES The parameter ARProperties is invalid.
0xC0140053	ERR_PNIO_APCFG_INVALID_AR_TYPE The parameter ARTYPE is invalid.
0xC0140054	ERR_PNIO_APCFG_INVALID_AR_UUID The parameter ARUUID is invalid.
0xC0140055	ERR_PNIO_APCFG_INVALID_ALARMCR_PROPERTIES The parameter AlarmCRProperties is invalid.
0xC0140056	ERR_PNIO_APCFG_INVALID_ALARMCR_TYPE The Parameter AlarmCRType is invalid.
0xC0140060	ERR_PNIO_APCFG_INVALID_MCAST_MAC The parameter MulticastMACAddress is invalid.
0xC0140061	ERR_PNIO_APCFG_INVALID_FRAMESEND_OFFSET The parameter FrameSendOffset is invalid.
0xC0140062	ERR_PNIO_APCFG_INVALID_IOCR_PROPERTIES The parameter IOCRRProperties is invalid.
0xC0140063	ERR_PNIO_APCFG_INVALID_IOCR_DATA_LENGTH The parameter IOCRRDataLength is invalid.
0xC0140064	ERR_PNIO_APCFG_INVALID_IOCR_TYPE The parameter IOCRRType is invalid.
0xC0140065	ERR_PNIO_APCFG_INVALID_DATAHOLD_FACTOR The parameter DataHoldFactor is invalid.
0xC0140066	ERR_PNIO_APCFG_INVALID_WATCHDOG_FACTOR The Parameter WatchdogFactor is invalid.
0xC0140067	ERR_PNIO_APCFG_INVALID_SENDCLOCK_FACTOR The parameter SendClockFactor is invalid.
0xC0140068	ERR_PNIO_APCFG_INVALID_REDUCTION_RATIO The parameter ReductionRatio is invalid.
0xC0140069	ERR_PNIO_APCFG_INVALID_PHASE The Parameter Phase is invalid.
0xC0140070	ERR_PNIO_APCFG_INVALID_IOCS_LENGTH The parameter IOCSELength is invalid.
0xC0140071	ERR_PNIO_APCFG_INVALID_IOPS_LENGTH The parameter IOPSELength is invalid.
0xC0140072	ERR_PNIO_APCFG_INVALID_DPM_OFFSET The parameter DPMOffset is invalid.
0xC0140073	ERR_PNIO_APCFG_INVALID_FRAME_OFFSET The parameter FrameOffset is invalid.
0xC0140074	ERR_PNIO_APCFG_INVALID_IOCS_FRAME_OFFSET The parameter IOCSEFrameOffset is invalid.
0xC0140075	ERR_PNIO_APCFG_INVALID_SUBMODULE_DATA_LENGTH The parameter SubmoduleDataLength is invalid.
0xC0140076	ERR_PNIO_APCFG_INVALID_DATA_DESCRIPTION The Parameter DataDescription is invalid.
0xC0140077	ERR_PNIO_APCFG_OVERLAPPING_FRAMEOFFSET_DATA The frame offset to use for IO-Data is already in use by another submodule.

Hexadecimal value	Definition and description
0xC0140078	ERR_PNIO_APCFG_OVERLAPPING_FRAMEOFFSET_IOC The frame offset to use for the IOC is already in use by another submodule.
0xC0140079	ERR_PNIO_APCFG_OVERLAPPING_DPMOFFSET The DPM offset to use for IO-Data is already in use by another submodule.
0xC014007A	ERR_PNIO_APCFG_FRAMEOFFSET_OUTSIDE_DEFINED_IOC The frame offset is bigger than the IOC-length.
0xC014007B	ERR_PNIO_APCFG_IOC_FRAMEOFFSET_OUTSIDE_DEFINED_IOC The IOC frame offset is bigger than the IOC-length.
0xC014007C	ERR_PNIO_APCFG_INVALID_IOC_PROD_ID The IOCRIdProd is invalid.
0xC014007D	ERR_PNIO_APCFG_INVALID_IOC_CONS_ID The IOCRCons is invalid.
0xC014007E	ERR_PNIO_APCFG_INVALID_RECORD_LENGTH The record data length is invalid.
0xC014007F	ERR_PNIO_APCFG_DUPLICATE_ARUID The ARUID of this IO-Device is already in use by another IO-Device.
0xC0140080	ERR_PNIO_APCFG_MULTIPLE_CR_NOT_SUPPORTED The configuration packet contains more than 1 IOC for the same direction which is not supported.
0xC0140081	ERR_PNIO_APCFG_FAULTY_VERSION_TABLE The content of the version table in database is invalid.
0xC0140082	ERR_PNIO_APCFG_UNSUPPORTED_DATABASE_VERSION The version of database is unsupported.
0xC0140083	ERR_PNIO_APCFG_INVALID_MAUTYPE The MAUType is invalid.
0xC0140084	ERR_PNIO_APCFG_INVALID_SIGNAL_TYPE The signal type is invalid.
0xC0140085	ERR_PNIO_APCFG_INVALID_NO_INTF_SUBM The requested submodule is no Interface Submodule.
0xC0140086	ERR_PNIO_APCFG_INVALID_NO_PORT_SUBM The requested submodule is no Port Submodule.
0xC0140087	ERR_PNIO_APCFG_INVALID_STRUCTURE_VERSION The value of structure version is invalid.
0xC0140088	ERR_PNIO_APCFG_INVALID_HELLO_MODE The Hello Mode is invalid.
0xC0140089	ERR_PNIO_APCFG_INVALID_HELLO_RETRY The value of Hello Retry is invalid.
0xC014008A	ERR_PNIO_APCFG_INVALID_HELLO_INTERVAL The value of Hello Interval is invalid.
0xC014008B	ERR_PNIO_APCFG_INVALID_HELLO_DELAY The value of Hello Delay is invalid.
0xC014008C	ERR_PNIO_APCFG_INVALID_MRP_ROLE The value of MRP Role is invalid.
0xC014008D	ERR_PNIO_APCFG_INVALID_ORDERID_LENGTH The OrderId length is invalid.
0xC014008E	ERR_PNIO_APCFG_INVALID_IOPS_OFFSET The requested IOPS offset does not address a byte although byte mode is requested or is outside valid DPM area.

Hexadecimal value	Definition and description
0xC014008F	ERR_PNIO_APCFG_OVERLAPPING_IOPS_OFFSET The requested IOPS offset is already in use by another element (data or IOxS).
0xC0140090	ERR_PNIO_APCFG_INVALID_IOPS_MODE The requested IOPS mode is invalid or not supported.
0xC0140091	ERR_PNIO_APCFG_INVALID_IOCS_MODE The requested IOCS mode is invalid or not supported.
0xC0140092	ERR_PNIO_APCFG_INVALID_IOPS_STARTOFFSET The requested IOPS area offset is invalid.
0xC0140093	ERR_PNIO_APCFG_INVALID_IOCS_STARTOFFSET The requested IOCS area offset is invalid.
0xC0140094	ERR_PNIO_APCFG_NO_VALID_CONFIG_DATABASE No valid config database was found.
0xC0140095	ERR_PNIO_APCFG_NO_VALID_NWID_DATABASE No valid nwid database was found.
0xC0140096	ERR_PNIO_APCFG_INVALID_ACTIVE_BITLIST_OFFSET The requested bit list offset for active IO-Devices is invalid.
0xC0140097	ERR_PNIO_APCFG_INVALID_CONFIG_BITLIST_OFFSET The requested bit list offset for configured IO-Devices is invalid.
0xC0140098	ERR_PNIO_APCFG_INVALID_FAULTY_BITLIST_OFFSET The requested bit list offset for faulty IO-Devices is invalid.
0xC0140099	ERR_PNIO_APCFG_INVALID_BITLIST_MODE Either all or no bit list offsets can be set to automatic mode.
0xC014009A	ERR_PNIO_APCFG_INVALID_SUBM_DESCR At least one IOxS interface is active which forces usage of extended submodule description packet.
0xC014009B	ERR_PNIO_APCFG_VERSION_INFO_ALREADY_SET The version info has already been set. It can only be set exactly once after power cycle.
0xC014009C	ERR_PNIO_APCFG_INVALID_SW_PREFIX The value of parameter bVersionPrefix is invalid.
0xC014009D	ERR_PNIO_APCFG_INVALID_VERSION_STRING_LENGTH The version string composed of different version parameters is too long.

Table 82: PNIO APCFG diagnostic status codes

3.8.8 PROFINET IO-Device DPM Interface

Hexadecimal value	Definition and description
0xC01A0001	ERR_PNIOD_DPMIF_COMMAND_INVALID Invalid command received.

Table 83: PROFINET IO-Device DPM interface

3.8.9 RPC Task

Hexadecimal value	Definition and description
0xC02E0001	ERR_RPC_TASK_COMMAND_INVALID Received packet with invalid command.
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_EPMAP_RESOURCE_INIT_FAILED Initiating CLRPC-Endpoint-Mapper failed (CLRPC_Mapper_Initialize()).
0xC02E0013	TLR_DIAG_E_RPC_TASK_INIT_LOCAL_CREATE_QUE_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_QUE_FAILED Getting queue handle to TCPIP-Task failed.
0xC02E0100	ERR_RPC_STATUS Generic RPC-error code. See Profinet-status code for details.
0xC02E0101	ERR_RPC_CONNECT_OUT_OF_MEMORY Insufficient memory to receive the whole Connect-Response PDU of the IO-Device. Most likely it contains a very large ModuleDiff-Block.
0xC02E0102	ERR_RPC_FATAL_ERROR_CLB_ALREADY_REGISTERED The fatal error callback function is already registered.
0xC02E0200	ERR_CLRPC_PACKET_SEND_FAILED Error while sending internal message to another task.
0xC02E0201	ERR_CLRPC_TIMER_OUT_OF_MEMORY Creating a TLR-Timer-packet in RPC task failed due to insufficient memory.
0xC02E0202	ERR_CLRPC_REF_COUNTER_INVALID The reference counter value is invalid.
0xC02E0203	ERR_CLRPC_INVALID_PORT_HANDLE The port handle is invalid.
0xC02E0204	ERR_CLRPC_TIMER_ALREADY_ACTIVE The soft timer is already active (expected inactive).
0xC02E0300	ERR_CLRPC_MAPPER_INIT_FAILED The parameter "uiMaxReg" (maximum amount of RPC-mapper registrations) is invalid in CLRPC_EPMap_Initialize().
0xC02E0301	ERR_CLRPC_MAPPER_RESOURCE_LIMIT_EXCEEDED The requested Endpoint-Mapper index is invalid.
0xC02E0302	ERR_CLRPC_MAPPER_RESOURCE_OUT_OF_MEMORY Insufficient memory for this request.
0xC02E0303	ERR_CLRPC_MAPPER_STATUS_INVALID The state of Endpoint-Mapper is invalid for this request.
0xC02E0304	ERR_CLRPC_MAPPER_STATUS_CLOSING The Endpoint-Mapper is waiting for close-confirmation and therefore its status is invalid for this request.
0xC02E0305	ERR_CLRPC_MAPPER_STATUS_UNKNOWN The status of Endpoint-Mapper is unknown.

Hexadecimal value	Definition and description
0xC02E0306	ERR_CLRPC_MAPPER_STATUS_CONFLICT The status of Endpoint-Mapper is not "Ready". Request CLRPC_EPMap_Deregister_req() is therefore invalid.
0xC02E0307	ERR_CLRPC_MAPPER_PARAMETER_FAILED Invalid parameter in CLRPC_EPMap_Register_req_Compare().
0xC02E0308	ERR_CLRPC_MAPPER_SERVER_REGISTERED CLRPC_EPMap_Deregister_req() is not allowed because at least one RPC-Server is registered to this Endpoint-Mapper.
0xC02E0400	ERR_CLRPC_SERVER_INIT_FAILED An error occurred in CLRPC_Server_Initialize().
0xC02E0401	ERR_CLRPC_SERVER_RESOURCE_LIMIT_EXCEEDED The maximum number of registered RPC-Servers has exceeded or the maximum number of outstanding requests is exceeded.
0xC02E0402	ERR_CLRPC_SERVER_TIMER_CREATE_FAILED Creating TLR-Timer for RPC-Server failed.
0xC02E0403	ERR_CLRPC_SERVER_NO_SERVER_REGISTERED There is no RPC-Server registered that could be deregistered (CLRPC_ServerDeregister_req()).
0xC02E0404	ERR_CLRPC_SERVER_RESOURCE_OUT_OF_MEMORY Insufficient memory to create an instance of RPC-Server.
0xC02E0405	ERR_CLRPC_SERVER_MAPPER_HANDLE_INVALID The handle to Endpoint-Mapper in CLRPC_ServerRegister_req() is invalid.
0xC02E0406	ERR_CLRPC_SERVER_MAPPER_STATUS_INVALID The status of Endpoint-Mapper in CLRPC_ServerRegister_req() is invalid.
0xC02E0407	ERR_CLRPC_SERVER_HANDLE_INVALID The handle to RPC-Server instance is invalid.
0xC02E0408	ERR_CLRPC_SERVER_OBJECT_REGISTERED There is at least one object registered to RPC-Server instance. CLRPC_ServerDeregister_req() cannot proceed.
0xC02E0409	ERR_CLRPC_SERVER_PARAM_RECV_INVALID Invalid parameter "ulMaxRecv" in request-packet in CLRPC_ServerRegister_req().
0xC02E040A	ERR_CLRPC_SERVER_PARAM_SEND_INVALID Invalid parameter "ulMaxSend" in request-packet in CLRPC_ServerRegister_req().
0xC02E040B	ERR_CLRPC_SERVER_ELEMENT_INVALID Invalid RPC-Server element "ptElem". Internal RPC-Error.
0xC02E040C	ERR_CLRPC_SERVER_REQUEST_CANCELED This RPC-Request was canceled.
0xC02E040D	ERR_CLRPC_SERVER_STATE_INVALID The state of RPC server is invalid for this request.
0xC02E040E	ERR_CLRPC_SERVER_ACTIVITY_ALREADY_INITIALIZED The activity has already been initialized.
0xC02E040F	ERR_CLRPC_SERVER_RECEIVED_INVALID_RSP_PACKET The RPC server received an invalid (unexpected) response packet.
0xC02E0500	ERR_CLRPC_OBJECT_RESOURCE_OUT_OF_MEMORY Insufficient memory to create an RPC-Object instance in CLRPC_ObjectRegister_req().
0xC02E0501	ERR_CLRPC_OBJECT_SERVER_HANDLE_INVALID The handle to RPC-Server instance in CLRPC_ObjectRegister_req() is invalid.
0xC02E0502	ERR_CLRPC_OBJECT_SERVER_STATUS_INVALID The status of RPC-Server instance in CLRPC_ObjectRegister_req() is invalid.

Hexadecimal value	Definition and description
0xC02E0503	ERR_CLRPC_OBJECT_HANDLE_INVALID The handle to RPC-Object instance in CLRPC_ObjectDeregister_req() is invalid.
0xC02E0600	ERR_CLRPC_CLIENT_INIT_FAILED One of the parameters "uiMaxReg" or "uiMaxReq" in CLRPC_Client_Initialize() is invalid.
0xC02E0601	ERR_CLRPC_CLIENT_RESOURCE_LIMIT_EXCEEDED The maximum number of parallel RPC-Client instances in reached in CLRPC_ClientRegister_req()
0xC02E0602	ERR_CLRPC_CLIENT_TIMER_CREATE_FAILED Creating the TLR-Timer for RPC-Client instance in CLRPC_ClientRegister_req() failed.
0xC02E0603	ERR_CLRPC_CLIENT_RESOURCE_OUT_OF_MEMORY Insufficient memory for this request.
0xC02E0604	ERR_CLRPC_CLIENT_MAPPER_STATUS_INVALID The state of RPC Client is invalid for this request.
0xC02E0605	ERR_CLRPC_CLIENT_HANDLE_INVALID The handle to RPC-Client instance is invalid.
0xC02E0606	ERR_CLRPC_CLIENT_REQUEST_LIMIT_EXCEEDED The maximum amount of outstanding RPC-Requests for this RPC-Clients instance is reached.
0xC02E0607	ERR_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	ERR_CLRPC_CLIENT_DEREGISTERED The RPC-Client instance you tried to use is going to deregister right now. Aborting your Request !
0xC02E0609	ERR_CLRPC_CLIENT_ELEMENT_INVALID Invalid RPC-Client instance element "ptElem". Internal RPC-Error.
0xC02E060A	ERR_CLRPC_CLIENT_LONG_TIMEOUT_HIT The LONG timeout TLR-timer for an outstanding RPC-Request hit. Used internal in RPC only.
0xC02E060B	ERR_CLRPC_CLIENT_RESPONSE_SEQUENCE_NUMBER Invalid sequence number in RPC-Message received by RPC-Client instance.
0xC02E060C	ERR_CLRPC_CLIENT_CANCEL_TIMED_OUT Canceling a running request timed out. This RPC Client will no longer be usable.
0xC02E060D	ERR_CLRPC_CLIENT_NO_REQUEST_PACKET The RPC Client did not have a packet to return.
0xC02E060E	ERR_CLRPC_CLIENT_RECV_REQ_WITH_UNEXPECTED_FLAG The RPC Client received a request with an unexpected Flag value.
0xC02E060F	ERR_CLRPC_CLIENT_ABORTED_BY_UNBIND_REQ The request was aborted because the RPC client was unbound.
0xC02E0610	ERR_CLRPC_MAX_ACTIVITY_RESEND_RETRY_REACHED The maximum resend number was reached by the activity.

Table 84: RPC task error and diagnosis codes

3.8.10 PROFINET IO-Device Interface Task

Hexadecimal value	Definition and description
0xC0300001	ERR_PNS_IF_COMMAND_INVALID Invalid command.
0xC0300002	ERR_PNS_IF_OS_INIT_FAILED Initialization of PNS Operating system adaption failed.
0xC0300003	ERR_PNS_IF_SET_INIT_IP_FAILED Initialization of PNS IP address failed.
0xC0300004	ERR_PNS_IF_PNIO_SETUP_FAILED PROFINET IO-Device Setup failed.
0xC0300005	ERR_PNS_IF_DEVICE_INFO_ALREADY_SET Device information set already.
0xC0300006	ERR_PNS_IF_SET_DEVICE_INFO_FAILED Setting of device information failed.
0xC0300007	ERR_PNS_IF_NO_DEVICE_SETUP PROFINET IO-Device stack is not initialized. Send PNS_IF_SET_DEVICEINFO_REQ before PNS_IF_OPEN_DEVICE_REQ.
0xC0300008	ERR_PNS_IF_DEVICE_OPEN_FAILED Opening a device instance failed.
0xC0300009	ERR_PNS_IF_NO_DEVICE_INSTANCE No device instance open.
0xC030000A	ERR_PNS_IF_PLUG_MODULE_FAILED Plugging a module failed.
0xC030000B	ERR_PNS_IF_PLUG_SUBMODULE_FAILED Plugging a submodule failed.
0xC030000C	ERR_PNS_IF_DEVICE_START_FAILED Start of PROFINET IO-Device failed.
0xC030000D	ERR_PNS_IF_EDD_ENABLE_FAILED Start of network communication failed.
0xC030000E	ERR_PNS_IF_ALLOC_MNGMNT_BUFFER_FAILED Allocation of a device instance management buffer failed.
0xC030000F	ERR_PNS_IF_DEVICE_HANDLE_NULL Given device handle is NULL.
0xC0300010	ERR_PNS_IF_SET_APPL_READY_FAILED Command PNS_IF_SET_APPL_READY_REQ failed.
0xC0300011	ERR_PNS_IF_SET_DEVSTATE_FAILED Command PNS_IF_SET_DEVSTATE_REQ failed.
0xC0300012	ERR_PNS_IF_PULL_SUBMODULE_FAILED Pulling the submodule failed.
0xC0300013	ERR_PNS_IF_PULL_MODULE_FAILED Pulling the module failed.
0xC0300014	ERR_PNS_IF_WRONG_DEST_ID Destination ID in command invalid.
0xC0300015	ERR_PNS_IF_DEVICE_HANDLE_INVALID Device Handle in command invalid.
0xC0300016	ERR_PNS_IF_CALLBACK_TIMEOUT PNS stack callback timeout.
0xC0300017	ERR_PNS_IF_PACKET_POOL_EMPTY PNS_IF packet pool empty.

Hexadecimal value	Definition and description
0xC0300018	ERR_PNS_IF_ADD_API_FAILED Command PNS_IF_ADD_API_REQ failed.
0xC0300019	ERR_PNS_IF_SET_SUB_STATE_FAILED Setting submodule state failed.
0xC030001A	ERR_PNS_IF_NO_NW_DBM_ERROR No network configuration DBM-file.
0xC030001B	ERR_PNS_IF_NW_SETUP_TABLE_ERROR Error during reading the "SETUP" table of the network configuration DBM-file .
0xC030001C	ERR_PNS_IF_CFG_SETUP_TABLE_ERROR Error during reading the "SETUP" table of the config.xxx DBM-file .
0xC030001D	ERR_PNS_IF_NO_CFG_DBM_ERROR No config.xxx DBM-file.
0xC030001E	ERR_PNS_IF_DBM_DATASET_ERROR Error getting dataset pointer.
0xC030001F	ERR_PNS_IF_SETUPEX_TABLE_ERROR Error getting dataset pointer(SETUP_EX table).
0xC0300020	ERR_PNS_IF_AP_TABLE_ERROR Error getting either dataset pointer or number of datasets(AP table).
0xC0300021	ERR_PNS_IF_MODULES_TABLE_ERROR Error getting either dataset pointer or number of datasets(MODULE table).
0xC0300022	ERR_PNS_IF_SUBMODULES_TABLE_ERROR Error getting either dataset pointer or number of datasets(SUBMODULE table).
0xC0300023	ERR_PNS_IF_PNIO_SETUP_ERROR Error setting up PNIO configuration(PNIO_setup()).
0xC0300024	ERR_PNS_IF_MODULES_GET_REC Error getting record of "MODULES" linked table.
0xC0300025	ERR_PNS_IF_SUBMODULES_GET_REC Error getting record of "SUBMODULES" linked table.
0xC0300026	ERR_PNS_IF_PNIOD_MODULE_ID_TABLE_ERROR Error accessing "PNIOD_MODULE_ID" table or table record error.
0xC0300027	ERR_PNS_IF_SIGNALS_TABLE_ERROR Error accessing "SIGNALS" table or table record error.
0xC0300028	ERR_PNS_IF_MODULES_IO_TABLE_ERROR Error accessing "MODULES_IO" table or table record error.
0xC0300029	ERR_PNS_IF_CHANNEL_SETTING_TABLE_ERROR Error accessing "CHANNEL_SETTING" table or table record error.
0xC030002A	ERR_PNS_IF_WRITE_DBM Error writing DBM-file.
0xC030002B	ERR_PNS_IF_DPM_CONFIG No basic DPM configuration.
0xC030002C	ERR_PNS_IF_WATCHDOG Application did not trigger the watchdog.
0xC030002D	ERR_PNS_IF_SIGNALS_SUBMODULES Data length in "SIGNALS" table does not correspond to that in "SUBMODULES" table.
0xC030002E	ERR_PNS_IF_READ_DPM_SUBAREA Failed to read DPM subarea.
0xC030002F	ERR_PNS_IF_MOD_0_SUB_1 Error configuring Module 0 Submodule 1.

Hexadecimal value	Definition and description
0xC0300030	ERR_PNS_IF_SIGNALS_LENGTH Length of I/O signals is bigger than the size of DPM subarea.
0xC0300031	ERR_PNS_IF_SUB_TRANSFER_DIRECTION A submodule cannot have input and outputs at the same time.
0xC0300032	ERR_PNS_IF_FORMAT_PNVOLUME Error while formatting PNVOLUME.
0xC0300033	ERR_PNS_IF_MOUNT_PNVOLUME Error while mounting PNVOLUME.
0xC0300034	ERR_PNS_IF_INIT_REMOTE Error during initialization of the remote resources of the stack.
0xC0300035	ERR_PNS_IF_WARMSTART_CONFIG_REDUNDANT Warmstart parameters are redundant. The stack was configured with DBM or packets.
0xC0300036	ERR_PNS_IF_WARMSTART_PARAMETER Incorrect warmstart parameter(s).
0xC0300037	ERR_PNS_IF_SET_APPL_STATE_READY PNIO_set_appl_state_ready() returns error.
0xC0300038	ERR_PNS_IF_SET_DEV_STATE PNIO_set_dev_state() returns error.
0xC0300039	ERR_PNS_IF_PROCESS_ALARM_SEND PNIO_process_alarm_send() returns error.
0xC030003a	ERR_PNS_IF_RET_OF_SUB_ALARM_SEND PNIO_ret_of_sub_alarm_send() returns error.
0xC030003b	ERR_PNS_IF_DIAG_ALARM_SEND PNIO_diag_alarm_send() returns error.
0xC030003c	ERR_PNS_IF_DIAG_GENERIC_ADD PNIO_diag_generic_add() returns error.
0xC030003d	ERR_PNS_IF_DIAG_GENERIC_REMOVE PNIO_diag_generic_remove() returns error.
0xC030003e	ERR_PNS_IF_DIAG_CHANNEL_ADD PNIO_diag_channel_add() returns error.
0xC030003f	ERR_PNS_IF_DIAG_CHANNEL_REMOVE PNIO_diag_channel_remove() returns error.
0xC0300040	ERR_PNS_IF_EXT_DIAG_CHANNEL_ADD PNIO_ext_diag_channel_add() returns error.
0xC0300041	ERR_PNS_IF_EXT_DIAG_CHANNEL_REMOVE PNIO_ext_diag_channel_remove() returns error.
0xC0300042	ERR_PNS_IF_STATION_NAME_LEN Parameter station name length is incorrect.
0xC0300043	ERR_PNS_IF_STATION_NAME Parameter station name is incorrect.
0xC0300044	ERR_PNS_IF_STATION_TYPE_LEN Parameter station type length is incorrect.
0xC0300045	ERR_PNS_IF_DEVICE_TYPE Parameter device type is incorrect.
0xC0300046	ERR_PNS_IF_ORDER_ID Parameter order id is incorrect.
0xC0300047	ERR_PNS_IF_INPUT_STATUS Parameter input data status bytes length is incorrect.

Hexadecimal value	Definition and description
0xC0300048	ERR_PNS_IF_OUTPUT_STATUS Parameter output data status bytes length is incorrect.
0xC0300049	ERR_PNS_IF_WATCHDOG_PARAMETER Parameter watchdog timing is incorrect(must be >= 10).
0xC030004a	ERR_PNS_IF_OUT_UPDATE Parameter output data update timing is incorrect.
0xC030004b	ERR_PNS_IF_IN_UPDATE Parameter input data update timing is incorrect.
0xC030004c	ERR_PNS_IF_IN_SIZE Parameter input memory area size is incorrect.
0xC030004d	ERR_PNS_IF_OUT_SIZE Parameter output memory area size is incorrect.
0xC030004e	ERR_PNS_IF_GLOBAL_RESOURCES Unable to allocate memory for global access to local resources.
0xC030004f	ERR_PNS_IF_DYNAMIC_CFG_PCK Unable to allocate memory for dynamic configuration packet.
0xC0300050	ERR_PNS_IF_DEVICE_STOP Unable to stop device.
0xC0300051	ERR_PNS_IF_DEVICE_ID Parameter device id is incorrect.
0xC0300052	ERR_PNS_IF_VENDOR_ID Parameter vendor id is incorrect.
0xC0300053	ERR_PNS_IF_SYS_START Parameter system start is incorrect.
0xC0300054	ERR_PNS_IF_DYN_CFG_IO_LENGTH The length of IO data expected by the controller exceeds the limit specified in warmstart parameters.
0xC0300055	ERR_PNS_IF_DYN_CFG_MOD_NUM The count of the IO modules expected by the controller exceeds the supported by the stack count.
0xC0300056	ERR_PNS_IF_ACCESS_LOCAL_RSC No global access to local resources.
0xC0300057	ERR_PNS_IF_PULL_PLUG Plugging and pulling modules during creation of communication is not allowed.
0xC0300058	ERR_PNS_IF_AR_NUM Maximum number of ARs is 1.
0xC0300059	ERR_PNS_IF_API_NUM Only API = 0 is supported.
0xC030005a	ERR_PNS_IF_ALREADY_OPEN Device is already opened.
0xC030005b	ERR_PNS_IF_API_ADDED Application is already added.
0xC030005c	ERR_PNS_IF_CONFIG_MODE Configuration modes should not be mixed(DBM-files,application,warmstart message).
0xC030005d	ERR_PNS_IF_UNK_LED_MODE Unknown LED mode.
0xC030005e	ERR_PNS_IF_PHYSICAL_LINK Physical link rate is less than 100 Mbit.

Hexadecimal value	Definition and description
0xC030005f	ERR_PNS_IF_MAX_SLOT_SUBSLOT Number of slots or subslots too big.
0xC0300060	ERR_PNS_IF_AR_REASON_MEM AR error. Out of memory.
0xC0300061	ERR_PNS_IF_AR_REASON_FRAME AR error. Add provider or consumer failed.
0xC0300062	ERR_PNS_IF_AR_REASON_MISS AR error. Consumer missing.
0xC0300063	ERR_PNS_IF_AR_REASON_TIMER AR error. CMI timeout.
0xC0300064	ERR_PNS_IF_AR_REASON_ALARM AR error. Alarm open failed.
0xC0300065	ERR_PNS_IF_AR_REASON_ALSND AR error. Alarm send confirmation failed.
0xC0300066	ERR_PNS_IF_AR_REASON_ALACK AR error. Alarm acknowledge send confirmation failed.
0xC0300067	ERR_PNS_IF_AR_REASON_ALLEN AR error. Alarm data too long.
0xC0300068	ERR_PNS_IF_AR_REASON_ASRT AR error. Alarm indication error.
0xC0300069	ERR_PNS_IF_AR_REASON_RPC AR error. RPC client call confirmation failed.
0xC030006A	ERR_PNS_IF_AR_REASON_ABORT AR error. Abort request.
0xC030006B	ERR_PNS_IF_AR_REASON_RERUN AR error. Re-Run.
0xC030006C	ERR_PNS_IF_AR_REASON_REL AR error. Release indication received.
0xC030006D	ERR_PNS_IF_AR_REASON_PAS AR error. Device deactivated.
0xC030006E	ERR_PNS_IF_AR_REASON_RMV AR error. Device/ar removed.
0xC030006F	ERR_PNS_IF_AR_REASON_PROT AR error. Protocol violation.
0xC0300070	ERR_PNS_IF_AR_REASON_NARE AR error. NARE error.
0xC0300071	ERR_PNS_IF_AR_REASON_BIND AR error. RPC-Bind error.
0xC0300072	ERR_PNS_IF_AR_REASON_CONNECT AR error. RPC-Connect error.
0xC0300073	ERR_PNS_IF_AR_REASON_READ AR error. RPC-Read error.
0xC0300074	ERR_PNS_IF_AR_REASON_WRITE AR error. RPC-Write error.
0xC0300075	ERR_PNS_IF_AR_REASON_CONTROL AR error. RPC-Control error.
0xC0300076	ERR_PNS_IF_AR_REASON_UNKNOWN AR error. Unknown.

Hexadecimal value	Definition and description
0xC0300077	ERR_PNS_IF_INIT_WATCHDOG Watchdog initialization failed.
0xC0300078	ERR_PNS_IF_NO_PHYSICAL_LINK The Device is not connected to a network.
0xC0300079	ERR_PNS_IF_DPM_CYCLIC_IO_RW Failed to copy from DPM or to DPM the cyclic IO data.
0xC030007A	ERR_PNS_IF_SUBMODULE Submodule number is wrong.
0xC030007B	ERR_PNS_IF_MODULE Module number is wrong.
0xC030007C	ERR_PNS_IF_NO_AR The AR was closed or the AR handle is not valid.
0xC030007D	ERR_PNS_IF_WRITE_REC_RES_TIMEOUT Timeout while waiting for response to write_record_indication.
0xC030007E	ERR_PNS_IF_UNREGISTERED_SENDER The sender of the request is not registered with request PNS_IF_REGISTER_AP_REQ.
0xC030007F	ERR_PNS_IF_RECORD_HANDLE_INVALID Unknown record handle.
0xC0300080	ERR_PNS_IF_REGISTER_AP Another instance is registered at the moment.
0xC0300081	ERR_PNS_IF_UNREGISTER_AP One instance cannot unregister another one.
0xC0300082	ERR_PNS_IF_CONFIG_DIFFER The Must-configuration differs from the Is-configuration.
0xC0300083	ERR_PNS_IF_NO_COMMUNICATION No communication processing.
0xC0300084	ERR_PNS_IF_BAD_PARAMETER At least one parameter in a packet was wrong or/and did not meet the requirements.
0xC0300085	ERR_PNS_IF_AREA_OVERFLOW Input or Output data requires more space than available.
0xC0300086	ERR_PNS_IF_WRM_PCK_SAVE Saving Warmstart Configuration for later use was not successful.
0xC0300087	ERR_PNS_IF_AR_REASON_PULLPLUG AR error. Pull and Plug are forbidden after check.rsp and before in-data.ind.
0xC0300088	ERR_PNS_IF_AR_REASON_AP_RMV AR error. AP has been removed.
0xC0300089	ERR_PNS_IF_AR_REASON_LNK_DWN AR error. Link "down".
0xC030008A	ERR_PNS_IF_AR_REASON_MMAC AR error. Could not register multicast-MAC.
0xC030008B	ERR_PNS_IF_AR_REASON_SYNC AR error. Not synchronized (Cannot start companion-AR).
0xC030008C	ERR_PNS_IF_AR_REASON_TOPO AR error. Wrong topology(Cannot start companion-AR).
0xC030008D	ERR_PNS_IF_AR_REASON_DCP_NAME AR error. DCP. Station Name changed.
0xC030008E	ERR_PNS_IF_AR_REASON_DCP_RESET AR error. DCP. Reset to factory-settings.

Hexadecimal value	Definition and description
0xC030008F	ERR_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	ERR_PNS_IF_PACKET_MNGMNT Packet management error.
0xC0300091	ERR_PNS_IF_WRONG_API_NUM Invalid parameter API.
0xC0300092	ERR_PNS_IF_WRONG_MODULE_ID Invalid parameter ModuleIdentifier (a module with different ModuleIdentifier is already plugged).
0xC0300093	ERR_PNS_IF_WRONG_MODULE_NUM Obsolete, no longer used.
0xC0300094	ERR_PNS_IF_UNNS_AREA Obsolete, no longer used.
0xC0300095	ERR_PNS_IF_WRONG_SUB_ID Obsolete, no longer used.
0xC0300096	ERR_PNS_IF_WRONG_SUBMODULE_NUM Obsolete, no longer used.
0xC0300097	ERR_PNS_IF_DEVICE_STOP_FAILED Obsolete, no longer used.
0xC0300098	ERR_PNS_IF_EDD_DISABLE_FAILED Obsolete, no longer used.
0xC0300099	ERR_PNS_IF_WRITE_IN Obsolete, no longer used.
0xC030009A	ERR_PNS_IF_READ_OUT Obsolete, no longer used.
0xC030009B	ERR_PNS_IF_PNIO_STATUS Obsolete, no longer used.
0xC030009C	ERR_PNS_IF_WRONG_MODULE_ADDRESS Obsolete, no longer used.
0xC030009D	ERR_PNS_IF_UNK_DEVICE_STATE Obsolete, no longer used.
0xC030009E	ERR_PNS_IF_ALARM_DATA_LEN Invalid alarm data length.
0xC030009F	ERR_PNS_IF_UNK_SUBMODULE_STATE Obsolete, no longer used.
0xC03000A0	ERR_PNS_IF_BAD_DIAG_HANDLE Invalid parameter Diagnosis handle.
0xC03000A1	ERR_PNS_IF_UNNS_STRUCT_ID Obsolete, no longer used.
0xC03000A2	ERR_PNS_IF_UNK_ALARM_STATE Obsolete, no longer used.
0xC03000A3	ERR_PNS_IF_DIAG_DATA_LEN Obsolete, no longer used.
0xC03000A4	ERR_PNS_IF_BAD_CHANNEL_ERR_TYPE Obsolete, no longer used.
0xC03000A5	ERR_PNS_IF_BAD_CHANNEL_PROP Obsolete, no longer used.

Hexadecimal value	Definition and description
0xC03000A6	ERR_PNS_IF_BAD_CHANNEL_NUM Obsolete, no longer used.
0xC03000A7	ERR_PNS_IF_RCX_RESTART Obsolete, no longer used.
0xC03000A8	ERR_PNS_IF_CFG_MNGMNT Obsolete, no longer used.
0xC03000A9	ERR_PNS_IF_UNK_INTERN_REQ Obsolete, no longer used.
0xC03000AA	ERR_PNS_IF_CFG_STORE Obsolete, no longer used.
0xC03000AB	ERR_PNS_IF_CFG_DELETE_FAILED An internal error occurred while deleting the configuration.
0xC03000AC	ERR_PNS_IF_READ_CFG Obsolete, no longer used.
0xC03000AD	ERR_PNS_IF_ACCESS_SYS_VOLUME Obsolete, no longer used.
0xC03000AE	ERR_PNS_IF_ACCESS_BCKUP_VOLUME Obsolete, no longer used.
0xC03000AF	ERR_PNS_IF_CFG_BAD_LEN Obsolete, no longer used.
0xC03000B0	ERR_PNS_IF_WRM_CFG_MNGMNT Obsolete, no longer used.
0xC03000B1	ERR_PNS_IF_RESET_FACTORY_IND No registered application. Reset_to_factory_settings Indication failed.
0xC03000B2	ERR_PNS_IF_MODULE_ALREADY_PLUGGED A module was already plugged to the slot.
0xC03000B3	ERR_PNS_IF_OSINIT Failed to init the OS adaptation layer.
0xC03000B4	ERR_PNS_IF_OSSOCKINIT Failed to init the TCPIP adaptation layer.
0xC03000B5	ERR_PNS_IF_INVALID_NETMASK Invalid subnetwork mask.
0xC03000B6	ERR_PNS_IF_INVALID_IP_ADDR Invalid IP address.
0xC03000B7	ERR_PNS_IF_STA_STARTUP_PARAMETER Erroneous Task start-up parameters.
0xC03000B8	ERR_PNS_IF_INIT_LOCAL Failed to initialize the Task local resources.
0xC03000B9	ERR_PNS_IF_APP_CONFIG_INCOMPLETE The configuration per packets is incomplete.
0xC03000BA	ERR_PNS_IF_INIT_EDD EDD Initialization failed.
0xC03000BB	ERR_PNS_IF_DPM_NOT_ENABLED DPM is not enabled.
0xC03000BC	ERR_PNS_IF_READ_LINK_STATUS Reading Link Status failed.
0xC03000BD	ERR_PNS_IF_INVALID_GATEWAY Invalid gateway address (not reachable with configured netmask).

Hexadecimal value	Definition and description
0xC0300100	ERR_PNS_IF_PACKET_SEND_FAILED Error while sending a packet to another task.
0xC0300101	ERR_PNS_IF_RESOURCE_OUT_OF_MEMORY Insufficient memory to handle the request.
0xC0300102	ERR_PNS_IF_NO_APPLICATION_REGISTERED No application to send the indication to is registered.
0xC0300103	ERR_PNS_IF_INVALID_SOURCE_ID The host-application returned a packet with invalid (changed) SourceID.
0xC0300104	ERR_PNS_IF_PACKET_BUFFER_FULL The buffer used to store packets exchanged between host-application and stack is full.
0xC0300105	ERR_PNS_IF_PULL_NO_MODULE Pulling the (sub)module failed because no module is plugged into the slot specified.
0xC0300106	ERR_PNS_IF_PULL_NO_SUBMODULE Pulling the submodule failed because no submodule is plugged into the subslot specified.
0xC0300107	ERR_PNS_IF_PACKET_BUFFER_RESTORE_ERROR The packet buffer storing packets exchanged between host-application and stack returned an invalid packet.
0xC0300108	ERR_PNS_IF_DIAG_NO_MODULE Diagnosis data not accepted because no module is plugged into the slot specified.
0xC0300109	ERR_PNS_IF_DIAG_NO_SUBMODULE Diagnosis data not accepted because no submodule is plugged into the subslot specified.
0xC030010A	ERR_PNS_IF_CYCLIC_EXCHANGE_ACTIVE The services requested are not available while cyclic communication is running.
0xC030010B	ERR_PNS_IF_FATAL_ERROR_CLB_ALREADY_REGISTERED This fatal error callback function could not be registered because there is already a function registered.
0xC030010C	ERR_PNS_IF_ERROR_STACK_WARMSTART_CONFIGURATION The stack did not accept the warmstart parameters.
0xC030010D	ERR_PNS_IF_ERROR_STACK_MODULE_CONFIGURATION The stack did not accept the module configuration packet.
0xC030010E	ERR_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	ERR_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	ERR_PNS_DIAG_BUFFER_FULL No more diagnosis records can be added to the stack because the maximum amount is already reached.
0xC0300111	ERR_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	ERR_PNS_IF_DPM_ACCESS_WITH_INVALID_OFFSET The DPM shall be accessed with an invalid data offset.
0xC0300113	ERR_PNS_IF_DUPLICATE_INPUT_CR_INFO The stack indicated to CR Info Indications with type input.
0xC0300114	ERR_PNS_IF_DUPLICATE_OUTPUT_CR_INFO The stack indicated to CR Info Indications with type output.
0xC0300115	ERR_PNS_IF_FAULTY_CR_INFO_IND_RECEIVED The stack indicated a faulty CR Info Indications.

Hexadecimal value	Definition and description
0xC0300116	ERR_PNS_IF_CONFIG_RELOAD_RUNNING The request cannot be executed because configuration reload or Channellnit is running.
0xC0300117	ERR_PNS_IF_NO_MAC_ADDRESS_SET There is no valid chassis MAC address set Without MAC address the stack will not work.
0xC0300118	ERR_PNS_IF_SET_PORT_MAC_NOT_POSSIBLE The Port MAC addresses have to be set before sending Set-Configuration Request to the stack.
0xC030011A	ERR_PNS_IF_INVALID_MODULE_CONFIGURATION Evaluating the module configuration failed.
0xC030011B	ERR_PNS_IF_CONF_IO_LEN_TO_BIG The sum of IO-data length exceeds the maximum allowed value.
0xC030011C	ERR_PNS_IF_NO_MODULE_CONFIGURED The module configuration does not contain at least one module.
0xC030011D	ERR_PNS_IF_INVALID_SW_REV_PREFIX The value of bSwRevisionPrefix is invalid.
0xC030011E	ERR_PNS_IF_RESERVED_VALUE_NOT_ZERO The value of usReserved it not zero.
0xC030011F	ERR_PNS_IF_IDENTIFY_CMDEV_QUEUE_FAILED Identifying the stack message queue CMDEV failed.
0xC0300120	ERR_PNS_IF_CREATE_SYNC_QUEUE_FAILED Creating the sync message queue failed.
0xC0300121	ERR_PNS_IF_CREATE_ALARM_LOW_QUEUE_FAILED Creating the low alarm message queue failed.
0xC0300122	ERR_PNS_IF_CREATE_ALARM_HIGH_QUEUE_FAILED Creating the high alarm message queue failed.
0xC0300123	ERR_PNS_IF_CFG_PACKET_TO_SMALL While evaluating SetConfiguration packet the packet length was found smaller than amount of configured modules needs.
0xC0300124	ERR_PNS_IF_FATAL_ERROR_OCCURRED A fatal error occurred prior to this request. Therefore this request cannot be fulfilled.
0xC0300125	ERR_PNS_IF_SUBMODULE_NOT_IN_CYCLIC_EXCHANGE The request cannot be executed because the submodule is not in cyclic data exchange.
0xC0300126	ERR_PNS_IF_SERVICE_NOT_AVAILABLE_THROUGH_DPM This service is not available through DPM.
0xC0300127	ERR_PNS_IF_INVALID_PARAMETER_VERSION The version of parameters is invalid (most likely too old).
0xC0300128	ERR_PNS_IF_DATABASE_USAGE_IS_FORBIDDEN The usage of database is forbidden by startup parameters of task.
0xC0300129	ERR_PNS_IF_RECORD_LENGTH_TOO_BIG The amount of record data is too big.
0xC030012A	ERR_PNS_IF_IDENTIFY_LLDP_QUEUE_FAILED Identifying the stack message queue LLDP failed.
0xC030012B	ERR_PNS_IF_INVALID_TOTAL_PACKET_LENGTH SetConfiguration Requests total packet length is invalid.
0xC030012C	ERR_PNS_IF_APPLICATION_TIMEOUT The application needed too much time to respond to an indication.
0xC030012D	ERR_PNS_IF_PACKET_BUFFER_INVALID_PACKET The packet buffer storing packets exchanged between host-application and stack returned a faulty packet.

Hexadecimal value	Definition and description
0xC030012E	ERR_PNS_IF_NO_IO_IMAGE_CONFIGURATION_AVAILABLE The request cannot be handled until a valid IO Image configuration is available.
0xC030012F	ERR_PNS_IF_IO_IMAGE_ALREADY_CONFIGURED A valid IO Image configuration is already available.
0xC0300130	ERR_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 port numbers.
0xC0300131	ERR_PNS_IF_NO_DAP_PRESENT The module configuration does not contain a Device Access Point DAP-submodule in slot 0 subslot 1.
0xC0300132	ERR_PNS_IF_PLUG_SUBMOD_OUTPUT_SIZE_EXCEEDED Output size of the submodule exceeded. Configured value of ulCompleteOutputSize is smaller than the Output size of all plugged input modules. Upgrade ulCompleteOutputSize.
0xC0300133	ERR_PNS_IF_PLUG_SUBMOD_INPUT_SIZE_EXCEEDED Input size of the submodule exceeded. Configured value of ulCompleteInputSize is smaller than the Input size of all plugged input modules. Upgrade ulCompleteInputSize.
0xC0300134	ERR_PNS_IF_PLUG_SUBMOD_NO_MODULE_ATTACHED_TO_ADD_TO No module attached to add the submodule to.
0xC0300135	ERR_PNS_IF_PLUG_SUBMOD_ALREADY_PLUGGED_THIS_SUBMOD Submodule already plugged.
0xC0300136	ERR_PNS_IF_SETIOXS_INVALID_PROV_IMAGE Invalid IOXS provider image.
0xC0300137	ERR_PNS_IF_SETIOXS_INVALID_CONS_IMAGE Invalid IOXS consumer image.
0xC0300138	ERR_PNS_IF_INVALID_IOPS_MODE Invalid IOPS mode.
0xC0300139	ERR_PNS_IF_INVALID_IOCS_MODE Invalid IOCS mode.
0xC030013A	ERR_PNS_IF_INVALID_API Invalid API.
0xC030013B	ERR_PNS_IF_INVALID_SLOT Invalid slot.
0xC030013C	ERR_PNS_IF_INVALID_SUBSLOT Invalid subslot.
0xC030013D	ERR_PNS_IF_INVALID_CHANNEL_NUMBER Invalid channel number.
0xC030013E	ERR_PNS_IF_INVALID_CHANNEL_PROPERTIES Invalid channel properties.
0xC030013F	ERR_PNS_IF_CHANNEL_ERRORTYPE_NOT_ALLOWED Invalid channel error type not allowed.
0xC0300140	ERR_PNS_IF_EXT_CHANNEL_ERRORTYPE_NOT_ALLOWED Invalid channel EXT error type not allowed.
0xC0300141	ERR_PNS_IF_INVALID_USER_STRUCT_IDENTIFIER Invalid user struct identifier.
0xC0300142	ERR_PNS_IF_INVALID_SUBMODULE Invalid submodule.
0xC0300143	ERR_PNS_IF_INVALID_IM_TYPE Invalid IM type.

Hexadecimal value	Definition and description
0xC0300144	ERR_PNS_IF_IDENTIFY_FODMI_QUEUE_FAILED Failed to identify the FODMI Queue.
0xC0300145	ERR_PNS_IF_DPM_MAILBOX_OVERFLOW The DPM Receive Mailbox Queue run out of space. Most likely the host did not fetch the packets.
0xC0300146	ERR_PNS_IF_APPL_IM_ACCESS_DENIED The application denied read/write access to I&M record object.
0xC0300147	ERR_PNS_IF_APPL_IM_INVALID_INDEX The application does not implement the requested I&M record object.
0xC0300148	ERR_PNS_IF_TAGLIST_INVALID_SUBMODULE_NUMBER Invalid number of max supported submodules.
0xC0300149	ERR_PNS_IF_TAGLIST_INVALID_ADDITIONAL_AR_NUMBER Invalid number of max supported additional IO ARs.
0xC030014A	ERR_PNS_IF_TAGLIST_INVALID_IMPLICIT_AR_NUMBER Invalid number of max supported implicit IO ARs.
0xC030014B	ERR_PNS_IF_TAGLIST_INVALID_DAAR_NUMBER Invalid number of max supported Device Access ARs.
0xC030014C	ERR_PNS_IF_TAGLIST_INVALID_MIN_RPC_BUFFER_SIZE Invalid RPC buffer size.
0xC030014D	ERR_PNS_IF_TAGLIST_INVALID_DIAGNOSIS_ENTRIES_NUM Invalid number of max supported diagnosis entries .
0xC030014E	ERR_PNS_IF_TAGLIST_INVALID_ARSET_NUM Invalid number of max supported AR sets.
0xC030014F	ERR_PNS_IF_PE_ENTITY_EXISTS A PE Entity was already added to this submodule.
0xC0300150	ERR_PNS_IF_NO_PE_ENTITY The submodule does not have a PE Entity.
0xC0300A00	ERR_PNS_IF_CM_AR_REASON_NONE None. Unused.
0xC0300A03	ERR_PNS_IF_CM_AR_REASON_MEM AR Out of memory.
0xC0300A04	ERR_PNS_IF_CM_AR_REASON_FRAME AR add provider or consumer failed.
0xC0300A05	ERR_PNS_IF_CM_AR_REASON_MISS AR consumer DHT/WDT expired.
0xC0300A06	ERR_PNS_IF_CM_AR_REASON_TIMER AR cmi timeout.
0xC0300A07	ERR_PNS_IF_CM_AR_REASON_ALARM AR alarm-open failed.
0xC0300A08	ERR_PNS_IF_CM_AR_REASON_ALSND AR alarm-send.cnf(-).
0xC0300A09	ERR_PNS_IF_CM_AR_REASON_ALACK AR alarm-ack-send.cnf(-).
0xC0300A0A	ERR_PNS_IF_CM_AR_REASON_ALLEN AR alarm data too long.
0xC0300A0B	ERR_PNS_IF_CM_AR_REASON_ASRT AR alarm.ind(err).
0xC0300A0C	ERR_PNS_IF_CM_AR_REASON_RPC AR rpc-client call.cnf(-).

Hexadecimal value	Definition and description
0xC0300A0D	ERR_PNS_IF_CM_AR_REASON_ABORT AR abort.req.
0xC0300A0E	ERR_PNS_IF_CM_AR_REASON_RERUN AR re-run aborts existing AR.
0xC0300A0F	ERR_PNS_IF_CM_AR_REASON_REL AR release.ind received.
0xC0300A10	ERR_PNS_IF_CM_AR_REASON_PAS AR device deactivated.
0xC0300A11	ERR_PNS_IF_CM_AR_REASON_RMV AR removed.
0xC0300A12	ERR_PNS_IF_CM_AR_REASON_PROT AR protocol violation.
0xC0300A13	ERR_PNS_IF_CM_AR_REASON_NARE AR name resolution error.
0xC0300A14	ERR_PNS_IF_CM_AR_REASON_BIND AR RPC-Bind error.
0xC0300A15	ERR_PNS_IF_CM_AR_REASON_CONNECT AR RPC-Connect error.
0xC0300A16	ERR_PNS_IF_CM_AR_REASON_READ AR RPC-Read error.
0xC0300A17	ERR_PNS_IF_CM_AR_REASON_WRITE AR RPC-Write error.
0xC0300A18	ERR_PNS_IF_CM_AR_REASON_CONTROL AR RPC-Control error.
0xC0300A19	ERR_PNS_IF_CM_AR_REASON_PULLPLUG AR forbidden pull or plug after check.rsp and before in-data.ind.
0xC0300A1A	ERR_PNS_IF_CM_AR_REASON_AP_RMV AR AP removed.
0xC0300A1B	ERR_PNS_IF_CM_AR_REASON_LNK_DWN AR link down.
0xC0300A1C	ERR_PNS_IF_CM_AR_REASON_MMAC AR could not register multicast-mac address.
0xC0300A1D	ERR_PNS_IF_CM_AR_REASON_SYNC Not synchronized (cannot start companion-ar).
0xC0300A1E	ERR_PNS_IF_CM_AR_REASON_TOPO Wrong topology (cannot start companion-ar).
0xC0300A1F	ERR_PNS_IF_CM_AR_REASON_DCP_NAME DCP, station-name changed.
0xC0300A20	ERR_PNS_IF_CM_AR_REASON_DCP_RESET DCP, reset to factory-settings.
0xC0300A21	ERR_PNS_IF_CM_AR_REASON_PRM 0x8ipp submodule in the first AR has either an appl-ready-pending (erroneous parameterization) or is locked (no parameterization) or is wrong or pulled (no parameterization).
0xC0300A22	ERR_PNS_IF_CM_AR_REASON_IRDATA No irdata record yet.
0xC0300A23	ERR_PNS_IF_CM_AR_REASON_PDEV Ownership of PDEV.

Hexadecimal value	Definition and description
0xC0300AFF	ERR_PNS_IF_CM_AR_REASON_MAX Max. Unused.

Table 85: PROFINET IO-Device interface task

3.8.11 MIB Database Task

Hexadecimal value	Definition and description
0xC03C0001	ERR_MIB_DATABASE_COMMAND_INVALID Invalid command.
0xC03C0002	ERR_MIB_NO_SUCH_INSTANCE No such instance of this Mib-variable.
0xC03C0003	ERR_MIB_END_OF_COL End of column reached while searching successor (GETNEXT).
0xC03C0004	ERR_MIB_NO_SUCH_NAME The requested OID is not available.
0xC03C0005	ERR_MIB_BAD_VALUE The value type and the type of the requested OID do not match.
0xC03C0006	ERR_MIB_OBJECT_IS_READ_ONLY The requested OID is read-only.
0xC03C0007	ERR_MIB_GENERIC_ERROR Generic error.
0xC03C0008	ERR_MIB_SET_SESSION_BUSY Another set session is in progress.
0xC03C0009	ERR_MIB_INVALID_MIB_GROUP MIB Group ID is invalid.
0xC03C000A	ERR_MIB_MIB_GROUP_ALREADY_REGISTERED MIB Group ID is already registered.
0xC03C000B	ERR_MIB_MIB_GROUP_NOT_SUPPORTED MIB Group ID is not supported.
0xC03C000C	ERR_MIB_UNREGISTER_NOT_ALLOWED Unregistering from this group is not allowed.

Table 86: MIB database task

3.8.12 LLDP Protocol

Hexadecimal value	Definition and description
0xC03E0001	ERR_LLDP_COMMAND_INVALID Invalid command.
0x403E0002	INFO_LLDP_UNKNOWN_TLV Unknown TLV found.
0xC03E0003	ERR_LLDP_PDU_MAX_SIZE_EXCEEDED Maximum Ethernet frame size exceeded.
0xC03E0004	ERR_LLDP_TLV_DISCARDED Invalid TLV content.
0xC03E0005	ERR_LLDP_FRAME_DISCARDED One of TLVs has a wrong size or invalid mandatory TLV sequence.
0xC03E0006	ERR_LLDP_WRONG_PARAMETERS Parameters sent to the task are wrong.
0xC03E0007	ERR_NO_MIBS The Task was unable to recreate MIBs during a reset due to insufficient memory.
0xC03E0008	ERR_CONFIG_WRONG_PORT_TOO_HIGH Configured Port higher then configured at startup parameter.
0xC03E0009	ERR_CONFIG_WRONG_STATUS_RT_2 Configured a to high RT2 Status
0xC03E000A	ERR_CONFIG_WRONG_STATUS_RT_3 Configured a to high RT3 Status
0xC03E000B	ERR_CONFIG_WRONG_MODE_RT3 Configured a to high RT3 Mode
0xC03E000C	ERR_CONFIG_SEND_ENABLE_RANGE Configured a wrong value for TX send enable
0xC03E000D	ERR_CONFIG_WRONG_ADMIN_STATUS Configured a wrong value for admin state
0xC03E000E	ERR_CONFIG_WRONG_PARAM_NOTIFIC_ENABLE Configured a wrong value for notification enable
0xC03E000F	ERR_CONFIG_WRONG_TX_ENABLE_VALUE Configured a to high value for TX enable
0xC03E0010	ERR_CONFIG_PORT_ID_SIZE_MAX_FAULT Configured a too long port id size
0xC03E0011	ERR_CONFIG_PORT_ID_SIZE_MIN_FAULT Configured a too short port id size
0xC03E0012	ERR_CONFIG_WRONG_PORT_ID_TYPE_MAX Configured a wrong too large port id type
0xC03E0013	ERR_CONFIG_WRONG_PORT_ID_TYPE_MIN Configured a wrong too short port id type
0xC03E0014	ERR_CONFIG_TO_LONG_PORT_DESCR Configured a too long port description
0xC03E0015	ERR_CONFIG_MAX_CHASSIS_ID Configured a too long chassis id type
0xC03E0016	ERR_CONFIG_MIN_CHASSIS_ID Configured a too short chassis id type
0xC03E0017	ERR_CONFIG_MAX_TX_INTERVAL Configured a too long TX interval

Hexadecimal value	Definition and description
0xC03E0018	ERR_CONFIG_MIN_TX_INTERVAL Configured a too short TX interval
0xC03E0019	ERR_CONFIG_MAX_PPVID Configured a too large PPVID
0xC03E001A	ERR_CONFIG_MIN_PPVID Configured a too short PPVID
0xC03E001B	ERR_CONFIG_WRONG_LLDP_SEND_STATE Configured wrong LLDP send state
0xC03E001C	ERR_CONFIG_TOO_LARGE_DESCRIPTION Configured a too large system description
0xC03E001D	ERR_CONFIG_WRONG_AUTO_NEG_STATE Configured a wrong Auto negotiation state
0xC03E001E	ERR_CONFIG_WRONG_AUTO_NEG_SUPPORTED Configured a wrong Auto negotiation supported state
0xC03E001F	ERR_CONFIG_WRONG_AUTO_NEG_ADVERTISED Configured a wrong Auto negotiation advertised state
0xC03E0020	ERR_CONFIG_MAX_MAU_TYPE Configured a too high MAU type
0xC03E0021	ERR_CONFIG_MIN_MAU_TYPE Configured a too low MAU type
0xC03E0022	ERR_CONFIG_PPVID_FAILED PPVID was previously not defined
0xC03E0023	ERR_IF_TYPE_MAX IF TYPE too large
0xC03E0024	ERR_IF_TYPE_MIN IF TYPE too small
0xC03E0025	ERR_OID_MAX OID too long
0xC03E0026	ERR_MANAGEMENT_ADDRESS_MAX Management address size too high
0xC03E0027	ERR_MANAGEMENT_ADDRESS_MIN Management address size too low
0xC03E0028	ERR_MANAGEMENT_ADDRESS_ID_INVALID Management address id not found. Address shall not exist.
0xC03E0029	ERR_TX_HOLD_MAX Value for TX hold too high
0xC03E003A	ERR_TX_HOLD_MIN Value for TX hold too low
0xC03E003B	ERR_REINIT_DELAY_MAX Value for the reinit delay is too high
0xC03E003C	ERR_REINIT_DELAY_MIN Value for the reinit delay is too low
0xC03E003D	ERR_TX_DELAY_MAX Value for the tx delay is too high
0xC03E003E	ERR_TX_DELAY_MIN Value for the tx delay is too low
0xC03E003F	ERR_NOTIFICATION_INTERVALL_MAX Value for the notification interval to high

Hexadecimal value	Definition and description
0xC03E0040	ERR_NOTIFICATION_INTERVALL_MIN Value for the notification interval too low
0xC03E0041	ERR_PVID_MAX Value for the pvid too high
0xC03E0042	ERR_PVID_MIN Value for the pvid too low
0xC03E0043	ERR_PPVID_MAX Value for the ppvid too high
0xC03E0044	ERR_PPVID_ENABLED Value for ppvid enabled out of range
0xC03E0045	ERR_PPVID_SUPPORTED Value for ppvid supported out of range
0xC03E0046	ERR_WRONG_PARAMETER_COMBINATION The combination of the different configured values doesn't fit
0xC03E0047	ERR_NOT_ENOUGH_STORAGE_TLV Not enough storage for so much of these TLV's
0xC03E0048	ERR_VLAN_NAME_MAX Vlan name length too long
0xC03E0049	ERR_VLAN_NAME_MIN Vlan name length too short
0xC03E004A	ERR_VLAN_ID_MAX Vlan id length too long
0xC03E004B	ERR_VLAN_ID_MIN Vlan id length too short
0xC03E004C	ERR_PID_MAX Pid length too long
0xC03E004D	ERR_MDI_ENABLE_RANGE MDI Enable out of range
0xC03E004E	ERR_MDI_SUPPORTED_RANGE MDI Supported out of range
0xC03E004F	ERR_PAIR_CONTROLLABEL_RANGE Pair controllable out of range
0xC03E0050	ERR_PORT_CLASS_RANGE Port class out of range
0xC03E0051	ERR_CLASS_MAX Value for class too high
0xC03E0052	ERR_CLASS_MIN Value for class too low
0xC03E0053	ERR_PAIRS_MAX Value for pairs too high
0xC03E0054	ERR_PAIRS_MIN Value for pairs too low
0xC03E0055	ERR_LA_SUPPORTED_RANGE Value for LA Supported out of range
0xC03E0056	ERR_LA_ENABLED_RANGE Value for LA Enabled out of range
0xC03E0057	ERR_AGG_PORT_ID_MAX Value for Agg Port ID too high

Hexadecimal value	Definition and description
0xC03E0058	ERR_MFS_MAX Value for Mfs too high
0xC03E0059	ERR_MFS_MIN Value for Mfs too low
0xC03E005A	ERR_NOS_MAX Name of station too long
0xC03E005B	ERR_MRRT_STATE_RANGE Value of MRRT state out of range
0xC03E005C	ERR_LENGTH_PERIOD_MAX Value of Length of period too high
0xC03E005D	ERR_RED_PERIOD_BEGIN_MAX Value of Length of red period begin is too high
0xC03E005E	ERR_ORANGE_PERIOD_BEGIN_MAX Value of Length of orange period begin is too high
0xC03E005F	ERR_GREEN_PERIOD_BEGIN_MAX Value of Length of green period begin is too high
0xC03E0060	ERR_LENGTH_PERIOD_MIN Value of length of period is too low

Table 87: LLDP Protocol

3.8.13 PROFINET IO CTL

Hexadecimal value	Definition and description
0xC09F0000	ERR_PNIO_RTA_INVALID_SOURCE_ENDPOINT Invalid parameter alarm source endpoint is higher than specified maximum AR count.
0xC09F0001	ERR_PNIO_RTA_SOURCE_ENDPOINT_ALREADY_USED The alarm source endpoint specified is already used by another context management instance.
0xC09F0002	ERR_PNIO_RTA_SOURCE_ENDPOINT_NOT_USED The alarm source endpoint specified is not used by a context management instance.
0xC09F0003	ERR_PNIO_RTA_SOURCE_ENDPOINT_UNINITIALIZED The alarm source endpoint specified is not initialized.
0xC09F0004	ERR_PNIO_RTA_INVALID_ALARM_PRIORITY The requested alarm priority is not supported.
0xC09F0005	ERR_PNIO_RTA_INVALID_ALARM_LENGTH The requested alarm data length exceeds the allowed maximum value of the AR.
0xC09F0006	ERR_PNIO_RTA_NO_CONTEXT_MANAGEMENT No context management registered. The indication cannot be sent to context management.

Table 88: PROFINET IO CTL status codes

3.8.14 PROFINET IO-Controller V3 AP Task

Hexadecimal value	Definition and description
0xC0CB0001	PNM_AP_CFG_INVALID_PARAMETER Invalid parameter.
0xC0CB0002	PNM_AP_CFG_INVALID_STRUCT_VERSION Invalid structure version.
0xC0CB0003	PNM_AP_CFG_INVALID_IDENTIFIER Invalid identifier.
0xC0CB0004	PNM_AP_CFG_INVALID_DEVICE_HANDLE Invalid device handle.
0xC0CB0005	PNM_AP_CFG_INVALID_SEND_CLOCK_FACTOR Invalid PROFINET send clock factor.
0xC0CB0006	PNM_AP_CFG_INVALID_REDUCTION_RATIO Invalid PROFINET reduction ratio.
0xC0CB0007	PNM_AP_CFG_INVALID_DATA_HOLD_FACTOR Invalid PROFINET data hold factor.
0xC0CB0008	PNM_AP_CFG_INVALID_PHASE Invalid PROFINET phase.
0xC0CB0009	PNM_AP_CFG_INVALID_FRAME_SEND_OFFSET Invalid PROFINET frame send offset.
0xC0CB000A	PNM_AP_CFG_INVALID_DOMAIN_NAME Invalid domain name.
0xC0CB000B	PNM_AP_CFG_INVALID_UUID Invalid UUID.
0xC0CB000C	PNM_AP_CFG_INVALID_NUMBER_OF_ENTRIES Invalid number of entries.
0xC0CB000D	PNM_AP_CFG_INVALID_PORT_NUM Invalid port number.
0xC0CB000E	PNM_AP_CFG_INVALID_STATION_NAME Invalid station name.
0xC0CB000F	PNM_AP_CFG_INVALID_PORT_NAME Invalid Ethernet port name.
0xC0CB0010	PNM_AP_CFG_INVALID_IP_ADDRESS Invalid IP address.
0xC0CB0011	PNM_AP_CFG_INVALID_IOCR_HANDLE Invalid PROFINET IOCRR Handle.
0xC0CB0012	PNM_AP_CFG_INVALID_IOCR_TYPE Invalid PROFINET IOCRR type.
0xC0CB0013	PNM_AP_CFG_INVALID_IOCR_PROP Invalid PROFINET IOCRR properties.
0xC0CB0014	PNM_AP_CFG_INVALID_IOCR_DATA_LENGTH Invalid PROFINET IOCRR data length.
0xC0CB0015	PNM_AP_CFG_INVALID_DPM_OFFSET Invalid DPM Offset.
0xC0CB0016	PNM_AP_CFG_OVERLAPPING_DPM_OFFSET Overlapping DPM IOCRR data area.
0xC0CB0017	PNM_AP_CFG_INVALID_SUBMODULE_HANDLE Invalid submodule handle.

Hexadecimal value	Definition and description
0xC0CB0018	PNM_AP_CFG_INVALID_SUBMODULE_TYPE Invalid submodule type.
0xC0CB001A	PNM_AP_CFG_INVALID_INPUT_DATA_LENGTH Invalid submodule input data length.
0xC0CB001B	PNM_AP_CFG_INVALID_INPUT_FRAME_OFFSET Invalid submodule input data offset.
0xC0CB001C	PNM_AP_CFG_OVERLAPPING_INPUT_FRAME_OFFSET Overlapping submodule input data areas.
0xC0CB001D	PNM_AP_CFG_INVALID_INPUT_IOCS_OFFSET Invalid submodule input IOCS offset.
0xC0CB001E	PNM_AP_CFG_OVERLAPPING_INPUT_IOCS_OFFSET Overlapping submodule input IOCS.
0xC0CB001F	PNM_AP_CFG_INVALID_OUTPUT_DATA_LENGTH Invalid submodule output data length.
0xC0CB0020	PNM_AP_CFG_INVALID_OUTPUT_FRAME_OFFSET Invalid submodule output data offset.
0xC0CB0021	PNM_AP_CFG_OVERLAPPING_OUTPUT_FRAME_OFFSET Overlapping submodule output data areas.
0xC0CB0022	PNM_AP_CFG_INVALID_OUTPUT_IOCS_OFFSET Invalid submodule output IOCS offset.
0xC0CB0023	PNM_AP_CFG_OVERLAPPING_OUTPUT_IOCS_OFFSET Overlapping submodule output IOCS.
0xC0CB0024	PNM_AP_CFG_INVALID_PLL_WINDOW Invalid PROFINET IRT PLL window.
0xC0CB0025	PNM_AP_CFG_INVALID_PTCTP_TIMEOUT Invalid PROFINET IRT Synchronization timeout (PTCP Timeout).
0xC0CB0026	PNM_AP_CFG_INVALID_TAKEOVER_TIMEOUT Invalid PROFINET IRT Takeover timeout.
0xC0CB0027	PNM_AP_CFG_INVALID_PTCP_STARTUP_TIME Invalid PROFINET IRT PTCP startup time.
0xC0CB0028	PNM_AP_CFG_INVALID_PTCP_MASTER_PRIO Invalid PROFINET IRT synchronization master priority.
0xC0CB0029	PNM_AP_CFG_INVALID_NUM_IRT_PHASES Invalid PROFINET IRT phase count.
0xC0CB002A	PNM_AP_CFG_INVALID_NUM_IRT_FRAMES Invalid PROFINET IRT frame count.
0xC0CB002C	PNM_AP_CFG_INVALID_GREEN_PERIOD_BEGIN Invalid PROFINET IRT green period begin.
0xC0CB002E	PNM_AP_CFG_INVALID_ORANGE_PERIOD_BEGIN Invalid PROFINET IRT orange period begin.
0xC0CB002F	PNM_AP_CFG_INVALID_FRAME_LENGTH Invalid PROFINET IRT frame length.
0xC0CB0030	PNM_AP_CFG_INVALID_LINE_DELAY Invalid PROFINET IRT line delay.
0xC0CB0031	PNM_AP_CFG_INVALID_PREAMBLE_LENGTH Invalid PROFINET frame preamble length.
0xC0CB0032	PNM_AP_CFG_INVALID_PARAMETER_FLAG Invalid parameter enable flag value.

Hexadecimal value	Definition and description
0xC0CB0033	PNM_AP_CFG_INVALID_PARAMETER_TYPE Invalid parameter type.
0xC0CB0034	PNM_AP_CFG_INVALID_FSU_MODE Invalid Fast Startup Mode.
0xC0CB0035	PNM_AP_CFG_INVALID_FS_HELLO_INTERVAL Invalid Fast Startup Hello telegram interval.
0xC0CB0036	PNM_AP_CFG_INVALID_FS_HELLO_RETRY Invalid Fast Startup Hello telegram retry.
0xC0CB0037	PNM_AP_CFG_INVALID_FS_HELLO_DELAY Invalid Fast Startup Hello delay.
0xC0CB0038	PNM_AP_CFG_INVALID_SYNC_MODE Invalid synchronization mode.
0xC0CB0039	PNM_AP_CFG_INVALID_MAUTYPE_MODE Invalid MAU type mode.
0xC0CB003A	PNM_AP_CFG_INVALID_DOMAIN_BOUNDARY Invalid domain boundary value.
0xC0CB003B	PNM_AP_CFG_INVALID_DCP_BOUNDARY Invalid DCP boundary value.
0xC0CB003C	PNM_AP_CFG_INVALID_PEERTOPEER_BOUNDARY Invalid peer to peer boundary value.
0xC0CB003D	PNM_AP_CFG_INVALID_MULTIPLE_INTERFACE_MODE Invalid multiple interface mode value.
0xC0CB003E	PNM_AP_CFG_INVALID_MRP_INSTANCE Invalid mrp instance.
0xC0CB003F	PNM_AP_CFG_INVALID_MRP_CHECK Invalid mrp check value.
0xC0CB0040	PNM_AP_CFG_INVALID_MRP_ROLE Invalid mrp role.
0xC0CB0041	PNM_AP_CFG_INVALID_MRP_PARAMETERS Invalid mrp parameter.
0xC0CB0042	PNM_AP_CFG_INVALID_MRP_MANAGER_PRIO Invalid mrp manager priority.
0xC0CB0043	PNM_AP_CFG_INVALID_MRP_TOPO_CHANGE_INTERVAL Invalid mrp topology change frame interval value.
0xC0CB0044	PNM_AP_CFG_INVALID_MRP_TOPO_REPEAT_COUNT Invalid mrp topology change frame repeat value.
0xC0CB0045	PNM_AP_CFG_INVALID_MRP_SHORT_TEST_INTERVAL Invalid mrp short test frame interval value.
0xC0CB0046	PNM_AP_CFG_INVALID_MRP_DEFAULT_TEST_INTERVAL Invalid mrp default test frame interval value.
0xC0CB0047	PNM_AP_CFG_INVALID_MRP_TEST_MONITOR_COUNT Invalid mrp test monitor countvalue.
0xC0CB0048	PNM_AP_CFG_INVALID_MRP_LINK_DOWN_INTERVAL Invalid mrp link down frame interval.
0xC0CB0049	PNM_AP_CFG_INVALID_MRP_LINK_UP_INTERVAL Invalid mrp link up frame interval.
0xC0CB004A	PNM_AP_CFG_INVALID_MRP_LINK_CHANGE_COUNT Invalid mrp link change repeat value.

Hexadecimal value	Definition and description
0xC0CB004B	PNM_AP_CFG_INVALID_FIBEROPTIC_PARAMETERS Invalid fiber optic parameter value.
0xC0CB004C	PNM_AP_CFG_DUPLICAT_UUID Doubly used UUID value.
0xC0CB004D	PNM_AP_CFG_DUPLICAT_NAME_OF_STATION Doubly used PROFINET Name Of Station value.
0xC0CB004E	PNM_AP_CFG_DUPLICAT_IP_ADDRESS Doubly used IPv4 network address.
0xC0CB004F	PNM_AP_CFG_INVALID_RTA_TIMEOUT_FACTOR Invalid value for alarm frame timeout.
0xC0CB0050	PNM_AP_CFG_INVALID_RTA_RETRIES Invalid value for alarm frame retry.
0xC0CB0051	PNM_AP_CFG_INVALID_MAX_ALARM_DATA_LENGTH Invalid value for alarm data length.
0xC0CB0052	PNM_AP_CFG_AR_TYPE_NOT_SUPPORTED Unsupported application relation type.
0xC0CB0053	PNM_AP_CFG_INVALID_AR_TYPE Invalid application relation type.
0xC0CB0054	PNM_AP_CFG_INVALID_SLOT Invalid module slot number.
0xC0CB0055	PNM_AP_CFG_INVALID_MODULE_IDENT Invalid module id number.
0xC0CB0056	PNM_AP_CFG_INVALID_SUBSLOT Invalid submodule subslot number.
0xC0CB0057	PNM_AP_CFG_NO_PORT_SUBMODULE The specified submodule is not a port submodule.
0xC0CB0058	PNM_AP_CFG_INVALID_MAX_BRIDGE_DELAY Invalid maximum Ethernet bridge delay.
0xC0CB0059	PNM_AP_CFG_INVALID_MAX_PORT_TX_DELAY Invalid maximum port tx delay.
0xC0CB005A	PNM_AP_CFG_INVALID_MAX_PORT_RX_DELAY Invalid maximum port rx delay.
0xC0CB005B	PNM_AP_CFG_INVALID_MAX_LINE_DELAY Invalid maximum line delay.
0xC0CB005C	PNM_AP_CFG_INVALID_YELLOW_TIME Invalid length of yellow interval.
0xC0CB005D	PNM_AP_CFG_INVALID_FRAME_DATA_PROP Invalid frame data properties.
0xC0CB005E	PNM_AP_CFG_INVALID_FRAME_ID Invalid frame id value.
0xC0CB005F	PNM_AP_CFG_INVALID_FRAME_DETAIL_SYNC_FRAME_MASK Invalid frame details sync frame mask.
0xC0CB0060	PNM_AP_CFG_INVALID_FRAME_DETAIL_FRAME_SEND_OFFSET Invalid frame details send offset.
0xC0CB0061	PNM_AP_CFG_INVALID_NUM_IRT_ASSIGNMENT Invalid number of IRT phase assignments.
0xC0CB0062	PNM_AP_CFG_DUPLICAT_SYNC_MASTER More than one synchronization master defined.

Hexadecimal value	Definition and description
0xC0CB0063	PNM_AP_CFG_INVALID_NUMBER_OF_PORTS Invalid number of ports.
0xC0CB0064	PNM_AP_CFG_TOPO_PORT_ALREADY_CONFIGURED The referenced port topology is already configured.
0xC0CB0065	PNM_AP_CFG_TOPO_INFO_MISMATCH Inconsistent topology configured.
0xC0CB0066	PNM_AP_CFG_INVALID_CONFIG_STATE Wrong configuration state.
0xC0CB0067	PNM_AP_CFG_MISSING_IOCR IOCRR missing in configuration.
0xC0CB0068	PNM_AP_CFG_MAX_NUMBER_IOCRR_EXCEEDED Maximum possible number of IOCRRs exceeded.
0xC0CB0069	PNM_AP_CFG_INVALID_DAP_CONFIGURATION Invalid configuration of a device access point (DAP).
0xC0CB006A	PNM_AP_CFG_INVALID_DROP_BUDGET Invalid value for network switch drop budget.
0xC0CB006B	PNM_AP_CFG_INVALID_REDORANGE_PERIOD_BEGIN Invalid value for PROFINET IRT red period begin.
0xC0CB006C	PNM_AP_CFG_PERFORMANCELIMIT_EXCEEDED The configured item exceeds the firmware's performance limitation.
0xC0CB006D	PNM_AP_CFG_FEATURE_NOT_SUPPORTED The configured feature is not supported
0xC0CB006E	PNM_AP_CFG_IRT_LEGACY_ADVANCED_MIXED The configuration contains legacy and advanced startup up IRT ARs
0xC0CB006F	PNM_AP_CFG_INVALID_ARPROPERTIES An invalid value for 'AR properties' was configured
0xC0CB0070	PNM_AP_CFG_INVALID_NAMEOFSTATION An invalid value for name of station was configured
0xC0CB0071	PNM_AP_ERR_DEVICE_NOT_FOUND A device with the given name of station was not found in the network
0xC0CB0072	PNM_AP_ERR_MULTIPLE_DEVICES_FOUND Multiple devices using the given name of station have been found in the network
0xC0CB0073	PNM_AP_ERR_DCP_FAILED Configuring the device using DCP failed
0xC0CB0074	PNM_AP_ERR_IP_CONFLICT The IP address is already used by another device in the network
0xC0CB0075	PNM_AP_CFG_INVALID_CONTROLLERAPPLICATIONCYCLEFACTOR An invalid value for the Controller Application Cycle Factor has been configured
0xC0CB0076	PNM_AP_CFG_INVALID_TIMEDATACYCLE An invalid value for the Time Data Cycle has been configured
0xC0CB0077	PNM_AP_CFG_INVALID_TIMEIOINPUT An invalid value for Time IO Input has been configured
0xC0CB0078	PNM_AP_CFG_INVALID_TIMEIOINPUTVALID An invalid value for Time IO Input Valid has been configured
0xC0CB0079	PNM_AP_CFG_INVALID_TIMEIOOUTPUT An invalid value for Time IO Output has been configured
0xC0CB0080	PNM_AP_CFG_INVALID_TIMEIOOUTPUTVALID An invalid value for Time IO Output Valid has been configured

Hexadecimal value	Definition and description
0xC0CB0081	PNM_AP_ERR_NO_MRM_LICENSE MRP Manager configured but license not available.
0xC0CB0082	PNM_AP_CFG_MULTIPLE_INTERFACE_MODE_MIXED Inconsistent MultipleInterface mode configuration. Mixed configuration (LLDP V2.2 and LLDP V2.3) is not allowed.
0xC0CB0083	PNM_AP_CFG_INVALID_DATA_HOLD_TIME Invalid PROFINET data hold time.
0xC0CB0084	ERR_PNM_AP_INVALID_ALARM_PRIORITY An invalid alarm priority value was specified in request.
0xC0CB0085	ERR_PNM_AP_NO_ALARM_PENDING No alarm pending for device handle and priority specified in request.
0xC0CB0086	ERR_PNM_AP_WRONG_ALARM_TYPE The alarm acknowledge service request contains a different alarm type than alarm indication.
0xC0CB0087	ERR_PNM_AP_WRONG_ALARM_STATE The alarm acknowledge service request was used before an alarm was indicated and responded

Table 89: PROFINET IO CONTROLLER V3 AP Task error codes

3.8.15 PROFINET core

Hexadecimal value	Definition and description
0xC1120001	ERR_PROFINET_CORE_TAGLIST_INVALID_MIN_RPC_BUFFER_SIZE Taglist parameter Minimum size of each RPC Buffer is invalid.
0xC1120002	ERR_PROFINET_CORE_TAGLIST_INVALID_ADDITIONAL_AR_NUMBER Taglist parameter Number of additional IO Connections is invalid.
0xC1120003	ERR_PROFINET_CORE_TAGLIST_INVALID_IMPLICIT_AR_NUMBER Taglist parameter Number of parallel Read Implicit Requests is invalid.
0xC1120004	ERR_PROFINET_CORE_TAGLIST_INVALID_DAAR_NUMBER Taglist parameter Number of parallel DeviceAccess ARs is invalid.
0xC1120005	ERR_PROFINET_CORE_TAGLIST_INVALID_SUBMODULE_NUMBER Taglist parameter Number of configurable submodules is invalid.
0xC1120006	ERR_PROFINET_CORE_TAGLIST_INVALID_ARSET_NUMBER Taglist parameter Number of parallel ARSets is invalid.
0xC1120007	ERR_PROFINET_CORE_TAGLIST_INVALID_DIAGNOSIS_BUFFERS_NUMBER Taglist parameter Number of available diagnosis buffers is invalid.

Table 90: PROFINET core

3.9 Sercos

3.9.1 Sercos

Hexadecimal value	Definition and description
0xC0330001	ERR_SERCOSIII_SVC_COMMAND_INVALID Invalid data in request detected.

Table 91: Sercos result and status codes

3.9.2 Sercos API

Hexadecimal value	Definition and description
0xC0340001	ERR_SERCOSIII_API_COMMAND_INVALID Invalid data in request detected.

Table 92: Sercos API result and status codes

3.9.3 Sercos DL

Hexadecimal value	Definition and description
0xC0350001	ERR_SERCOSIII_DL_COMMAND_INVALID Invalid data in request detected.

Table 93: Sercos DL result and status codes

3.9.4 Sercos ETH

Hexadecimal value	Definition and description
0xC0360001	ERR_SERCOSIII_ETH_COMMAND_INVALID Invalid data in request detected.
0xC0360002	ERR_SIII_SL_NRT_INVALID_STARTUP_PARAMETER Invalid startup parameters.
0xC0360003	ERR_SIII_SL_NRT_LLD_NOT_STARTED Link Layer Driver not started.

Table 94: Sercos ETH result and status codes

3.9.5 Sercos cyclic

Hexadecimal value	Definition and description
0xC0370001	ERR_SERCOSIII_CYCLIC_COMMAND_INVALID Invalid data in request detected.

Table 95: Sercos cyclic result and status codes

3.9.6 Sercos Slave Application Task

Hexadecimal value	Definition and description
0xC04B0001	ERR_SERCOS_SL_COMMAND_INVALID Invalid command received.

Table 96: Sercos Slave Application Task

3.9.7 Sercos Slave COM

Hexadecimal value	Definition and description
0xC04E0031	ERR_SERCOSIII_SL_COM_INVALID_NUM_OF_SLAVES Invalid number of slaves or invalid slave number.
0xC04E0032	ERR_SERCOSIII_SL_COM_INVALID_SYNC_VERSION Invalid or not supported SCP_Sync version.
0xC04E0033	ERR_SERCOSIII_SL_COM_INVALID_SMP_VERSION Invalid or not supported SCP_SMP version.
0xC04E0034	ERR_SERCOSIII_SL_COM_INVALID_NRT_VERSION Invalid or not supported SCP_NRT version.
0xC04E0035	ERR_SERCOSIII_SL_COM_INVALID_SYNC_CONFIG_FLAGS Invalid or not supported Sync configuration flags.
0xC04E0036	ERR_SERCOSIII_SL_COM_CONCLK_SIGNAL_TOO_SHORT ConClk is enabled, but signal length below minimum 1000 ns.
0xC04E0037	ERR_SERCOSIII_SL_COM_INVALID_DIVCLK_SIGNAL DivClk is enabled, but signal length below minimum 1us or greater than 20us.
0xC04E0038	ERR_SERCOSIII_SL_COM_INVALID_DIVCLK_CONFIG DivClk is enabled, but config is invalid.
0xC04E0039	ERR_SERCOSIII_SL_COM_INVALID_SERCOS_ADR Invalid sercos address.
0xC04E003A	ERR_SERCOSIII_SL_COM_INVALID_SCP_VERSION Invalid or not supported SCP version.
0xC04E003B	ERR_SERCOSIII_SL_COM_INVALID_SLAVE_FLAGS Invalid or not supported slave flags.
0xC04E003C	ERR_SERCOSIII_SL_COM_DEFAULT_OD_NOT_AVAILABLE Default object dictionary not available.
0xC04E003D	ERR_SERCOSIII_SL_COM_INVALID_USER_SCP_VERSION Invalid or not supported USER_SCP version.
0xC04E003E	ERR_SERCOSIII_SL_COM_INVALID_FSP_TYPE Invalid or not supported FSP Type.
0xC04E003F	ERR_SERCOSIII_SL_COM_INVALID_PROCESS_DATA_IMG Invalid or not supported process data image, it is too large.
0xC04E0040	ERR_SERCOSIII_SL_COM_CLEAN_UP_OD_FAILED Cleaning up the object dictionary failed.
0xC04E0041	ERR_SERCOSIII_SL_COM_CONCLK_SIGNAL_TOO_LONG ConClk is enabled, but signal length above maximum 655350 ns.
0xC04E0042	ERR_SERCOSIII_SL_COM_RTDATA_LENGTH_NOT_EVEN The RT-Data length must not be odd. Configure an even length.
0xC04E0043	ERR_SERCOSIII_SL_COM_INVALID_SYSTEM_START_VALUE The value for ulSystemStart is out of range.
0xC04E0044	ERR_SERCOSIII_SL_COM_INVALID_VENDOR_CODE_VALUE The value for usVendorCode is out of range.
0xC04E0045	ERR_SERCOSIII_SL_COM_DUPLICATE_CONFIGURED_SERCOS_ADDRESSES At the multiple slave device one sercos address was double configured.
0xC04E0046	ERR_SERCOSIII_SL_COM_INVALID_SIP_VERSION Invalid version of SIP.
0xC04E0047	ERR_SERCOSIII_SL_COM_RESET_ONLY_THROUGH_S_0_0099 A Reset of a C1D error code is allowed with S-0-0099 only.

Hexadecimal value	Definition and description
0xC04E0048	ERR_SERCOSIII_SL_COM_MINIMUM_VALUE_NOT_READABLE The minimum value is not readable.
0xC04E0049	ERR_SERCOSIII_SL_COM_MAXIMUM_VALUE_NOT_READABLE The maximum value is not readable.
0xC04E004A	ERR_SERCOSIII_SL_COM_NAME_NOT_READABLE The name is not readable.
0xC04E004B	ERR_SERCOSIII_SL_COM_ATTRIBUTE_NOT_READABLE The attribute is not readable.
0xC04E004C	ERR_SERCOSIII_SL_COM_UNIT_NOT_READABLE The unit is not readable.
0xC04E004D	ERR_SERCOSIII_SL_COM_NO_ENTRY_DELETED No entry found to be deleted.
0xC04E004E	ERR_SERCOSIII_SL_COM_MAXIMUM_REGISTRATION_LISTENERS_REACHED All listening slots are in use.
0xC04E004F	ERR_SERCOSIII_SL_COM_NO_DIAGNOSIS_NUMBER_SET No diagnosis number set. A diagnosis number must be different to zero
0xC04E0050	ERR_SERCOSIII_SL_COM_JUST_ALLOWED_IN_CP3_OR_CP4 Reconfiguration with this packet is allowed in CP3 or CP4 only.
0xC04E0051	ERR_SERCOSIII_SL_COM_JUST_ALLOWED_IN_CP2 Reconfiguration with this packet is allowed in CP2 only.
0xC04E0052	ERR_SERCOSIII_SL_COM_NO_VAR_CONFIG This packet is allowed only if VarCfg is configured.
0xC04E0053	ERR_SERCOSIII_SL_COM_NO_STORAGE_LEFT This storage left.
0xC04E0054	ERR_SERCOSIII_SL_COM_NUMBER_CONNECTIONS_EXCEEDED The number of connections exceeded.
0xC04E0055	ERR_SERCOSIII_SL_COM_RX_BUFFER_INTERRUPT_WITHOUT_SYNC The configuration of the RX Buffer Interrupt is possible only if Sync is also enabled.
0xC04E0056	ERR_SERCOSIII_SL_COM_RX_WRONG_SERCOS_VERSION_CONFIGURED The configured Sercos Version is invalid.

Table 97: Sercos Slave COM error codes

3.9.8 Sercos Slave AP

Hexadecimal value	Definition and description
0xC0510001	ERR_SERCOSIII_SL_AP_INVALID_S3S_NXD Invalid database for sercos slave.

Table 98: Sercos Slave AP error codes

3.9.9 Sercos Master CP

Hexadecimal value	Definition and description
0xC0700001	ERR_SIII_MA_CP_COMMAND_INVALID Invalid command value.
0xC0700002	ERR_SIII_MA_CP_INVALID_STARTUP_PARAMETER Invalid Startup parameter.
0xC0700003	ERR_SIII_MA_CP_WAITING_FOR_TOPOLOGY_DETECT Waiting for Topology Detect (CP0).
0xC0700004	ERR_SIII_MA_CP_LLD_NOT_STARTED Sercos Low Level Driver not started.
0xC0700005	ERR_SIII_MA_CP_INIT_CALLBACK_HP_FAILED Initialization of HP Callback failed.
0xC0700006	ERR_SIII_MA_CP_INIT_CALLBACK_DEVSTATUS_FAILED Initialization of DevStatus Callback failed.
0xC0700007	ERR_SIII_MA_CP_INIT_CALLBACK_TOPOLOGY_DETECT_FAILED Initialization of Topology Detect Callback failed.
0xC0700008	ERR_SIII_MA_CP_CONFIGURATION_BUFFER_ALREADY_OPEN Configuration Buffer is already open.
0xC0700009	ERR_SIII_MA_CP_CONFIGURATION_BUFFER_IS_NOT_OPEN Configuration Buffer is not open.
0xC070000A	ERR_SIII_MA_CP_INVALID_SLAVE_ADDRESS Invalid slave address.
0xC070000B	ERR_SIII_MA_CP_TELEGRAM_OFFSET_CANNOT_BE_IN_MDT_TELEGRAM Telegram offset cannot be set to MDT telegram.
0xC070000C	ERR_SIII_MA_CP_TELEGRAM_OFFSET_CANNOT_BE_IN_AT_TELEGRAM Telegram offset cannot be set to AT telegram.
0xC070000D	ERR_SIII_MA_CP_TELEGRAM_OFFSET_HAS_INVALID_TELEGRAM_NO Telegram offset has invalid telegram number.
0xC070000E	ERR_SIII_MA_CP_TELEGRAM_OFFSET_HAS_INVALID_OFFSET Telegram offset has invalid offset in frame.
0xC070000F	ERR_SIII_MA_CP_MDT_SVCH_TELEGRAM_OFFSET_CANNOT_BE_IN_AT_TELEGRAM MDT ServiceChannel Telegram offset cannot be set to AT telegram.
0xC0700010	ERR_SIII_MA_CP_MDT_SVCH_TELEGRAM_OFFSET_HAS_INVALID_TELEGRAM_NO MDT ServiceChannel Telegram offset has invalid telegram number.
0xC0700011	ERR_SIII_MA_CP_MDT_SVCH_TELEGRAM_OFFSET_HAS_INVALID_OFFSET MDT ServiceChannel Telegram offset has invalid offset in frame.
0xC0700012	ERR_SIII_MA_CP_AT_SVCH_TELEGRAM_OFFSET_CANNOT_BE_IN_MDT_TELEGRAM AT ServiceChannel Telegram offset cannot be set to MDT telegram.
0xC0700013	ERR_SIII_MA_CP_AT_SVCH_TELEGRAM_OFFSET_HAS_INVALID_TELEGRAM_NO AT ServiceChannel Telegram offset has invalid telegram number.
0xC0700014	ERR_SIII_MA_CP_AT_SVCH_TELEGRAM_OFFSET_HAS_INVALID_OFFSET AT ServiceChannel Telegram offset has invalid offset in frame.
0xC0700015	ERR_SIII_MA_CP_DEV_CTRL_TELEGRAM_OFFSET_CANNOT_BE_IN_AT_TELEGRAM DeviceControl Telegram offset cannot be set to AT telegram.
0xC0700016	ERR_SIII_MA_CP_DEV_CTRL_TELEGRAM_OFFSET_HAS_INVALID_TELEGRAM_NO DeviceControl Telegram offset has invalid telegram number.
0xC0700017	ERR_SIII_MA_CP_DEV_CTRL_TELEGRAM_OFFSET_HAS_INVALID_OFFSET Device Control Telegram offset has invalid offset in frame.

Hexadecimal value	Definition and description
0xC0700018	ERR_SIII_MA_CP_DEV_STATUS_TELEGRAM_OFFSET_CANNOT_BE_IN_MDT_TELEGRAM DeviceControl Telegram offset cannot be set to MDT telegram.
0xC0700019	ERR_SIII_MA_CP_DEV_STATUS_TELEGRAM_OFFSET_HAS_INVALID_TELEGRAM_NO DeviceStatus Telegram offset has invalid telegram number.
0xC070001A	ERR_SIII_MA_CP_DEV_STATUS_TELEGRAM_OFFSET_HAS_INVALID_OFFSET DeviceStatus Telegram offset has invalid offset in frame.
0xC070001B	ERR_SIII_MA_CP_SLAVE_ALREADY_IN_CONFIGURATION Slave already in configuration.
0xC070001C	ERR_SIII_MA_CP_SLAVE_NOT_IN_CONFIGURATION Slave is not in configuration.
0xC070001D	ERR_SIII_MA_CP_INITCMD_SEGMENT_DOES_NOT_MATCH_FIRST_PACKET InitCmd segment does not match the first packet.
0xC070001E	ERR_SIII_MA_CP_LLD_TO_BE_IMPLEMENTED Unimplemented function detected.
0xC070001F	ERR_SIII_MA_CP_LLD_UNKNOWN_ERROR Unknown error.
0xC0700020	ERR_SIII_MA_CP_LLD_OUT_OF_MEMORY Out of memory.
0xC0700021	ERR_SIII_MA_CP_LLD_INVALID_SERVICE_CHANNEL Invalid Service Channel number.
0xC0700022	ERR_SIII_MA_CP_LLD_INVALID_DEVICE Invalid Slave address.
0xC0700023	ERR_SIII_MA_CP_LLD_INVALID_PHASE_TRANSITION Invalid Phase transition.
0xC0700024	ERR_SIII_MA_CP_LLD_NO_CONFIGURATION_DATA_FOR_CP3_4 No Configuration data for CP3/CP4 available.
0xC0700025	ERR_SIII_MA_CP_LLD_INVALID_MDT0_SIZE Invalid MDT0 length.
0xC0700026	ERR_SIII_MA_CP_LLD_INVALID_MDT1_SIZE Invalid MDT1 length.
0xC0700027	ERR_SIII_MA_CP_LLD_INVALID_MDT2_SIZE Invalid MDT2 length.
0xC0700028	ERR_SIII_MA_CP_LLD_INVALID_MDT3_SIZE Invalid MDT3 length.
0xC0700029	ERR_SIII_MA_CP_LLD_INVALID_AT0_SIZE Invalid AT0 length.
0xC070002A	ERR_SIII_MA_CP_LLD_INVALID_AT1_SIZE Invalid AT1 length.
0xC070002B	ERR_SIII_MA_CP_LLD_INVALID_AT2_SIZE Invalid AT2 length.
0xC070002C	ERR_SIII_MA_CP_LLD_INVALID_AT3_SIZE Invalid AT3 length.
0xC070002D	ERR_SIII_MA_CP_LLD_INVALID_DEVICE_CONTROL_OFFSET_TEL_TYPE Device Control offset cannot be placed into AT telegram.
0xC070002E	ERR_SIII_MA_CP_LLD_INVALID_DEVICE_CONTROL_OFFSET_TEL_NO Telegram Number in Device Control offset is invalid.
0xC070002F	ERR_SIII_MA_CP_LLD_INVALID_DEVICE_CONTROL_OFFSET_OFS_TOO_LOW Frame Offset in Device Control offset is too low.

Hexadecimal value	Definition and description
0xC0700030	ERR_SIII_MA_CP_LLD_INVALID_DEVICE_CONTROL_OFFSET_OFS_TOO_HIGH Frame Offset in Device Control offset is too high.
0xC0700031	ERR_SIII_MA_CP_LLD_INVALID_DEVICE_CONTROL_OFFSET_OFS_NOT_EVEN Frame Offset in Device Control offset is not word-aligned (16-bit word).
0xC0700032	ERR_SIII_MA_CP_LLD_INVALID_DEVICE_STATUS_OFFSET_TEL_TYPE Device Status offset cannot be placed into MDT telegram.
0xC0700033	ERR_SIII_MA_CP_LLD_INVALID_DEVICE_STATUS_OFFSET_TEL_NO Telegram Number in Device Status offset is invalid.
0xC0700034	ERR_SIII_MA_CP_LLD_INVALID_DEVICE_STATUS_OFFSET_OFS_TOO_LOW Frame Offset in Device Status offset is too low.
0xC0700035	ERR_SIII_MA_CP_LLD_INVALID_DEVICE_STATUS_OFFSET_OFS_TOO_HIGH Frame Offset in Device Status offset is too high.
0xC0700036	ERR_SIII_MA_CP_LLD_INVALID_DEVICE_STATUS_OFFSET_OFS_NOT_EVEN Frame Offset in Device Status offset is not word-aligned (16-bit word).
0xC0700037	ERR_SIII_MA_CP_LLD_INVALID_MDT_SVC_CHANNEL_OFFSET_TEL_TYPE MDT Service Channel offset cannot be placed into AT telegram.
0xC0700038	ERR_SIII_MA_CP_LLD_INVALID_MDT_SVC_CHANNEL_OFFSET_TEL_NO Telegram Number in MDT Service Channel offset is invalid.
0xC0700039	ERR_SIII_MA_CP_LLD_INVALID_MDT_SVC_CHANNEL_OFFSET_OFS_TOO_LOW Frame Offset in MDT Service Channel offset is too low.
0xC070003A	ERR_SIII_MA_CP_LLD_INVALID_MDT_SVC_CHANNEL_OFFSET_OFS_TOO_HIGH Frame Offset in MDT Service Channel offset is too high.
0xC070003B	ERR_SIII_MA_CP_LLD_INVALID_MDT_SVC_CHANNEL_OFFSET_OFS_NOT_EVEN Frame Offset in MDT Service Channel offset is not word-aligned (16-bit word).
0xC070003C	ERR_SIII_MA_CP_LLD_INVALID_AT_SVC_CHANNEL_OFFSET_TEL_TYPE AT Service Channel offset cannot be placed into MDT telegram.
0xC070003D	ERR_SIII_MA_CP_LLD_INVALID_AT_SVC_CHANNEL_OFFSET_TEL_NO Telegram Number in AT Service Channel offset is invalid.
0xC070003E	ERR_SIII_MA_CP_LLD_INVALID_AT_SVC_CHANNEL_OFFSET_OFS_TOO_LOW Frame Offset in AT Service Channel offset is too low.
0xC070003F	ERR_SIII_MA_CP_LLD_INVALID_AT_SVC_CHANNEL_OFFSET_OFS_TOO_HIGH Frame Offset in AT Service Channel offset is too high.
0xC0700040	ERR_SIII_MA_CP_LLD_INVALID_AT_SVC_CHANNEL_OFFSET_OFS_NOT_EVEN Frame Offset in AT Service Channel offset is not word-aligned (16-bit word).
0xC0700041	ERR_SIII_MA_CP_LLD_INVALID_MDT_RTDATA_OFFSET_TEL_TYPE MDT Connection offset cannot be placed into AT telegram.
0xC0700042	ERR_SIII_MA_CP_LLD_INVALID_MDT_RTDATA_OFFSET_TEL_NO Telegram Number in MDT Connection offset is invalid.
0xC0700043	ERR_SIII_MA_CP_LLD_INVALID_MDT_RTDATA_OFFSET_OFS_TOO_LOW Frame Offset in MDT Connection offset is too low.
0xC0700044	ERR_SIII_MA_CP_LLD_INVALID_MDT_RTDATA_OFFSET_OFS_TOO_HIGH Frame Offset in MDT Connection offset is too high.
0xC0700045	ERR_SIII_MA_CP_LLD_INVALID_MDT_RTDATA_OFFSET_OFS_NOT_EVEN Frame Offset in AT Connection offset is not word-aligned (16-bit word).
0xC0700046	ERR_SIII_MA_CP_LLD_INVALID_AT_RTDATA_OFFSET_TEL_TYPE AT Connection offset cannot be placed into MDT telegram.
0xC0700047	ERR_SIII_MA_CP_LLD_INVALID_AT_RTDATA_OFFSET_TEL_NO Telegram Number in AT Connection offset is invalid.

Hexadecimal value	Definition and description
0xC0700048	ERR_SIII_MA_CP_LLD_INVALID_AT_RTDATA_OFFSET_OFS_TOO_LOW Frame Offset in AT Connection offset is too low.
0xC0700049	ERR_SIII_MA_CP_LLD_INVALID_AT_RTDATA_OFFSET_OFS_TOO_HIGH Frame Offset in AT Connection offset is too high.
0xC070004A	ERR_SIII_MA_CP_LLD_INVALID_AT_RTDATA_OFFSET_OFS_NOT_EVEN Frame Offset in MDT Connection offset is not word-aligned (16-bit word).
0xC070004B	ERR_SIII_MA_CP_LLD_OVERLAPPING_REGIONS_DETECTED_IN_MDT_FRAMES Overlapping regions detected within MDT frames.
0xC070004C	ERR_SIII_MA_CP_LLD_OVERLAPPING_REGIONS_DETECTED_IN_AT_FRAMES Overlapping regions detected within AT frames.
0xC070004D	ERR_SIII_MA_CP_LLD_INVALID_SLAVE_ADDRESS_IN_CP3_4_CONFIG Invalid Slave address in CP3/CP4 configuration data.
0xC070004E	ERR_SIII_MA_CP_LLD_CONFIGURE_NOT_ALLOWED_IN_CURRENT_STATE Configuring CP3/CP4 not allowed in current state.
0xC070004F	ERR_SIII_MA_CP_LLD_BUILDING_COPY_ROUTINES_FAILED Building of copy routines failed.
0xC0700050	ERR_SIII_MA_CP_LLD_INVALID_MDT_CONNCTRL_PROCESS_IMAGE_OFFSET Invalid MDT Connection Control Process Image offset.
0xC0700051	ERR_SIII_MA_CP_LLD_INVALID_MDT_RTDATA_PROCESS_IMAGE_OFFSET Invalid MDT real time data Process Image offset.
0xC0700052	ERR_SIII_MA_CP_LLD_INVALID_AT_CONNCTRL_PROCESS_IMAGE_OFFSET Invalid AT Connection Control Process Image offset.
0xC0700053	ERR_SIII_MA_CP_LLD_INVALID_AT_RTDATA_PROCESS_IMAGE_OFFSET Invalid AT real time data Control Process Image offset.
0xC0700054	ERR_SIII_MA_CP_CONFIGURATION_NOT_POSSIBLE_IN_CURRENT_STATE Configuration not possible in current master state.
0xC0700055	ERR_SIII_MA_CP_PHASE_CHANGE_IN_PROGRESS Phase Change is in progress.
0xC0700056	ERR_SIII_MA_CP_REQUESTED_PHASE_IS_ALREADY_CURRENT_PHASE Requested Phase is already current phase.
0xC0700057	ERR_SIII_MA_CP_FINISH_CONFIGURATION_DOWNLOAD_FIRST Finish configuration download first.
0xC0700058	ERR_SIII_MA_CP_NO_CONFIGURATION_FOR_CP3_AVAILABLE No configuration for CP3 available.
0xC0700059	ERR_SIII_MA_CP_NO_CONFIGURATION_FOR_CP4_AVAILABLE No configuration for CP4 available.
0xC070005A	ERR_SIII_MA_CP_INCOMPLETE_INITCMD_DOWNLOAD Incomplete InitCmd download detected.
0xC070005B	ERR_SIII_MA_CP_INVALID_TRANSITION_FLAGS Invalid transition flags specified in InitCmd download.
0xC070005C	ERR_SIII_MA_CP_INVALID_INITCMD_LENGTH Invalid length specified in InitCmd download.
0xC070005D	ERR_SIII_MA_CP_PHASE_INDS_RECEIVER_LIST_IS_FULL Phase Indication receiver list is full.
0xC070005E	ERR_SIII_MA_CP_APP_NOT_REGISTERED Application queue is not registered.
0xC070005F	ERR_SIII_MA_CP_APP_REGISTERED_ALREADY Application queue is registered already.

Hexadecimal value	Definition and description
0x40700060	INFO_SIII_MA_CP_BUS_IS_OFF Please issue the BusOn command, since the bus is off.
0xC0700061	ERR_SIII_MA_CP_NO_DIAG_ENTRY_AVAILABLE No further diagnostic entries currently available.
0xC0700062	ERR_SIII_MA_CP_LOCKED_DUE_TO_ERROR_IN_PREVIOUS_PHASE_SWITCH Locked due to error in previous phase switch.
0xC0700063	ERR_SIII_MA_CP_LOCKED_DUE_TO_DPM_WATCHDOG_ERROR Locked due to error on DPM watchdog.
0xC0700064	ERR_SIII_MA_CP_BUS_SCAN_NOT_POSSIBLE_WITHOUT_BUS_ON Bus Scan not possible without Bus On.
0xC0700065	ERR_SIII_MA_CP_ELECTRONIC_LABEL_NOT_READABLE Electronic Label could not be read.
0xC0700066	ERR_SIII_MA_CP_BUS_SCAN_ALREADY_ACTIVE Bus Scan already active.
0xC0700067	ERR_SIII_MA_CP_BUS_SCAN_ABORTED Bus Scan aborted.
0xC0700068	ERR_SIII_MA_CP_TIMING_PARAMETER_NRT_CHANNEL_EXCEEDS_CYCLE_TIME NRT Channel exceeds cycle time.
0xC0700069	ERR_SIII_MA_CP_TIMING_PARAMETER_END_OF_MDT_IS_LATER_THAN_START_OF_AT End of MDT is later than start of AT.
0xC070006A	ERR_SIII_MA_CP_TIMING_PARAMETER_END_OF_MDT_EXCEEDS_CYCLE_TIME End of MDT exceeds cycle time.
0xC070006B	ERR_SIII_MA_CP_TIMING_PARAMETER_START_OF_AT_EXCEEDS_CYCLE_TIME Start of AT exceeds cycle time.
0xC070006C	ERR_SIII_MA_CP_TIMING_PARAMETER_END_OF_AT_EXCEEDS_CYCLE_TIME End of AT exceeds cycle time.
0xC070006D	ERR_SIII_MA_CP_TIMING_PARAMETER_END_OF_NRT_IS_EARLIER_THAN_START_OF_NRT End of NRT is earlier than start of NRT.
0xC070006E	ERR_SIII_MA_CP_TIMING_PARAMETER_NRT_CHANNEL_OVERLAPS_MDT_TRANSMISSION NRT Channel overlaps MDT transmission.
0xC070006F	ERR_SIII_MA_CP_TIMING_PARAMETER_NRT_CHANNEL_OVERLAPS_AT_TRANSMISSION NRT Channel overlaps AT transmission.
0xC0700070	ERR_SIII_MA_CP_TIMING_PARAMETER_START_OF_AT_IS_EARLIER_THAN_START_OF_MDT Start of AT is earlier than start of MDT.
0xC0700071	ERR_SIII_MA_CP_LOCKED_DUE_PREVIOUS_FATAL_ERROR Locked due previous fatal error.
0xC0700072	ERR_SIII_MA_CP_TOPOLOGY_INFO_NOT_VALID_AT_THE_MOMENT Topology info not valid at the moment.
0xC0700073	ERR_SIII_MA_CP_AT_TRANSMISSION_START_TIME_EXCEEDS_CYCLE_TIME AT Transmission start time exceeds cycle time.
0xC0700074	ERR_SIII_MA_CP_NRT_START_TIME_EXCEEDS_CYCLE_TIME NRT start time exceeds cycle time.
0xC0700075	ERR_SIII_MA_CP_NRT_END_TIME_EXCEEDS_CYCLE_TIME NRT End time exceeds cycle time.
0xC0700076	ERR_SIII_MA_CP_NRT_START_TIME_IS_GREATER_THAN_NRT_END_TIME NRT End time is greater than NRT start time.

Hexadecimal value	Definition and description
0xC0700077	ERR_SIII_MA_CP_TOPOLOGY_REQUEST_ABORTED_DUE_NRT Topology Request aborted due NRT phase.
0xC0700078	ERR_SIII_MA_CP_TOPOLOGY_REQUEST_ABORTED_DUE_CP0 Topology Request aborted due CP0 phase.
0xC0700079	ERR_SIII_MA_CP_TOPOLOGY_REQUEST_ABORTED_DUE_TIMEOUT Topology Request aborted due timeout.
0xC070007A	ERR_SIII_MA_CP_TOPOLOGY_REQUEST_ABORTED_DUE_UNRELATED_SLAVE_TOPOLOGY_CHANGE Topology Request aborted other unrelated slave changed topology state.
0xC070007B	ERR_SIII_MA_CP_TOPOLOGY_REQUEST_ABORTED_DUE_SLAVE_DENIED_TOPOLOGY_CHANGE Topology Request aborted due to slave denying topology state change.
0xC070007C	ERR_SIII_MA_CP_TOPOLOGY_NOT_ALLOWED_CURRENTLY Topology Request not allowed currently due to topology status.
0xC070007D	ERR_SIII_MA_CP_SLAVE_NOT_IN_TOPOLOGY Slave not in topology.
0xC070007E	ERR_SIII_MA_CP_ANOTHER_TOPOLOGY_REQUEST_IN_PROGRESS Another Topology Request in progress.
0xC070007F	ERR_SIII_MA_CP_SLAVE_CONFIGURATION_FLAGS_INVALID Invalid slave configuration flags.
0xC0700080	ERR_SIII_MA_CP_SLAVE_INVALID_ELEMENT_ID_IN_ADD_INITCMD Invalid element id in Add InitCmd.
0xC0700081	ERR_SIII_MA_CP_SLAVE_INVALID_ACTION_IN_ADD_INITCMD Invalid action in Add InitCmd.
0xC0700082	ERR_SIII_MA_CP_BUS_SCAN_NOT_ACTIVE Bus Scan not active.
0xC0700083	ERR_SIII_MA_CP_SLAVE_NOT_IN_BUS_COMMUNICATION Slave not in bus communication.
0xC0700084	ERR_SIII_MA_CP_HOTPLUG_SLAVE_NOT_IN_BUS_COMMUNICATION Hotplug Slave not in bus communication.
0xC0700085	ERR_SIII_MA_CP_C1D_DIAGNOSTIC_ERROR C1D-Diagnostic Error.
0xC0700086	ERR_SIII_MA_CP_SVC_MHS_AHS_TIMEOUT SVC: MHS-AHS Timeout.
0xC0700087	ERR_SIII_MA_CP_SVC_BUSY_TIMEOUT SVC: Busy Timeout.
0xC0700088	ERR_SIII_MA_CP_S_0_99_COMMAND_ERROR S-0-99 Command execution ended with error.
0xC0700089	ERR_SIII_MA_CP_MDT_NRT_AT_CONFIGURATION_NOT_SUPPORTED MDT/NRT/AT order not supported.
0xC070008A	ERR_SIII_MA_CP_INITCMD_SVCH_ERROR InitCmd FSM did not succeed processing configured IDN parameters due to Service channel error.
0xC070008B	ERR_SIII_MA_CP_INITCMD_COMPARE_FAILED InitCmd FSM did not succeed processing configured IDN parameters due mismatch during compare.
0xC070008C	ERR_SIII_MA_CP_INITCMD_PROCCMD_FAILED InitCmd FSM did not succeed processing a configured procedure.

Hexadecimal value	Definition and description
0xC070008D	ERR_SIII_MA_CP_INITCMD_SVCH_TASK_ERROR InitCmd FSM did not succeed due to Service Channel Task error.
0xC070008E	ERR_SIII_MA_CP_NOT_AVAILABLE_IN_CONFIGURATION Not available in configuration.
0xC070008F	ERR_SIII_MA_CP_NOT_ALLOWED_WITH_AUTOCFG Not allowed with AutoCfg active.
0xC0700090	ERR_SIII_MA_CP_NOT_ALLOWED_WITHOUT_AUTOCFG Not allowed without AutoCfg active.
0xC0700091	ERR_SIII_MA_CP_MDT_SPACE_EXCEEDED Space of MDT frames exceeded.
0xC0700092	ERR_SIII_MA_CP_AT_SPACE_EXCEEDED Space of AT frames exceeded.
0xC0700094	ERR_SIII_MA_CP_NOT_ENOUGH_SPACE_FOR_MDT_AT_TELEGRAMS Not enough space for MDT and AT telegrams in cycle.
0xC0700095	ERR_SIII_MA_CP_NOT_ENOUGH_SPACE_FOR_NRT_IN_CYCLE Not enough space for NRT channel in cycle.
0xC0700096	ERR_SIII_MA_CP_NOT_ALLOWED_FUNCTION_TYPE_SPECIFIED Not allowed connection function type specified.
0xC0700097	ERR_SIII_MA_CP_UNKNOWN_FUNCTION_TYPE_SPECIFIED Unknown connection function type specified.
0xC0700099	ERR_SIII_MA_CP_LLD_BUFFER_OUT_OF_SYNC LLD: Buffer Out of Sync.
0xC070009A	ERR_SIII_MA_CP_LLD_INVALID_PARAMETER LLD: Invalid Parameter.
0xC070009C	ERR_SIII_MA_CP_LLD_EXCEPTION_OCCURED LLD: Exception occurred.
0xC070009D	ERR_SIII_MA_CP_LLD_CONNECTION_LOST LLD: Connection lost.
0xC070009E	ERR_SIII_MA_CP_LLD_REQUEST_TIMEOUT LLD: Request Timeout.
0xC070009F	ERR_SIII_MA_CP_LLD_ACCESS_ERROR LLD: Access Error.
0xC07000A0	ERR_SIII_MA_CP_LLD_MAILBOX_ERROR LLD: Mailbox Error.
0xC07000A1	ERR_SIII_MA_CP_SLAVE_IDENT_ALREADY_ADDED Slave Identification data already added.
0xC07000A2	ERR_SIII_MA_CP_SLAVE_IDENT_DATA_NOT_AVAILABLE Slave Identification data not available.
0xC07000A3	ERR_SIII_MA_CP_CONNECTION_NOT_IN_CONFIGURATION Connection Instance is not in configuration.
0xC07000A4	ERR_SIII_MA_CP_CONNECTION_LAYOUT_NOT_IN_CONFIGURATION Connection Instance layout is not in configuration.
0xC07000A5	ERR_SIII_MA_CP_CONNECTION_LAYOUT_ALREADY_IN_CONFIGURATION Connection Instance layout is already in configuration.
0xC07000A6	ERR_SIII_MA_CP_NRT_WINDOW_AND_NRT_MTU_CANNOT_BE_SATISFIED NRT Window and NRT MTU cannot be satisfied.
0xC07000A7	ERR_SIII_MA_CP_DEPRECATED_NRT_OFF_CONFIGURATION Deprecated NRT off configuration used (t6 == t7). Please set t6 to 0.

Hexadecimal value	Definition and description
0xC07000A8	ERR_SIII_MA_CP_INVALID_CYCLE_TIME Invalid cycle time used (not sercos-defined).
0xC07000A9	ERR_SIII_MA_CP_INVALID_MAX_TSREF_COUNTER Invalid value for maximum TS-ref counter.
0xC07000AA	ERR_SIII_MA_CP_DEVICE_IDENT_MISMATCH Device Ident Mismatch.
0xC07000AB	ERR_SIII_MA_CP_CP1_CP2_NRT_WINDOW_INVALID CP1/CP2 NRT Window parameters invalid.
0xC07000AC	ERR_SIII_MA_CP_CP1_CP2_AT_START_TIME_INVALID CP1/CP2 AT Start Time invalid.
0xC07000AD	ERR_SIII_MA_CP_FEATURES_NOT_ACKNOWLEDGED Advertised featured in CP0 are not acknowledged.
0xC07000AE	ERR_SIII_MA_CP_NOT_ALLOWED_IN_CURRENT_PHASE Request not allowed in current phase.
0xC07000AF	ERR_SIII_MA_CP_MANDATORY_SLAVE_LIST_VARIANT_ALREADY_ADDED Mandatory slave list variant already added.
0xC07000B0	ERR_SIII_MA_CP_SCP_CLASS_HANDLED INTERNALLY SCP Class is handled internally by master.
0xC07000B1	ERR_SIII_MA_CP_OVERLAPPING_INPUT_DATA_IN_PROCESS_IMAGE Overlapping input data offsets in process image.
0xC07000B2	ERR_SIII_MA_CP_SCP_NRT_CONFIGURATION_ALREADY_ADDED SCP_NRT/SCP_NRTPC configuration already added.
0xC07000B3	ERR_SIII_MA_CP_DUPLICATE_SLAVE_ADDRESS Duplicate slave address specified.
0xC07000B4	ERR_SIII_MA_CP_IP_NETWORK_ADDRESSES_NOT_IDENTICAL IP: Network addresses are not identical.
0xC07000B5	ERR_SIII_MA_CP_IP_INVALID_IP_ADDRESS IP: Invalid IP address.
0xC07000B6	ERR_SIII_MA_CP_IP_SUBNET_MASKS_NOT_IDENTICAL IP: Subnet masks are not identical.
0xC07000B7	ERR_SIII_MA_CP_IP_INVALID_GATEWAY_ADDRESS IP: Invalid gateway address.
0xC07000B8	ERR_SIII_MA_CP_NOT_POSSIBLE_DUE_CONFIGURATION_BUFFER_IS_OPEN Not possible. Configuration buffer is open.
0xC07000B9	ERR_SIII_MA_CP_CONNECTION_SETUP_NOT_IN_CONFIGURATION Connection setup is not in configuration.
0xC07000BA	ERR_SIII_MA_CP_MINIMUM_CYCLE_TIME_CANNOT_BE_CALCULATED Minimum cycle time cannot be calculated.
0xC07000BB	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_WRONG_NODE_IN_LIST Internal topology information broken (Wrong node in list).
0xC07000BC	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_INVALID_LIST_HEAD_PRIMARY Internal topology information broken (Invalid list head on primary port).
0xC07000BD	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_INVALID_LIST_TAIL_PRIMARY Internal topology information broken (Invalid list tail on primary port).

Hexadecimal value	Definition and description
0xC07000BE	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_INVALID_LIST_HEAD_SECONDARY Internal topology information broken (Invalid list head on secondary port).
0xC07000BF	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_INVALID_LIST_TAIL_SECONDARY Internal topology information broken (Invalid list tail on secondary port).
0xC07000C0	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_INVALID_LIST_HEAD_RING Internal topology information broken (Invalid list head on ring).
0xC07000C1	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_INVALID_LIST_TAIL_RING Internal topology information broken (Invalid list tail on ring).
0xC07000C2	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_HALF_MERGED Internal topology information broken (Half merged list).
0xC07000C3	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_UNEXPECTED_NULL_POINTER_HEAD_PRIMARY Internal topology information broken (Unexpected null pointer on primary port head).
0xC07000C4	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_UNEXPECTED_NULL_POINTER_TAIL_PRIMARY Internal topology information broken (Unexpected null pointer on primary port tail).
0xC07000C5	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_UNEXPECTED_NULL_POINTER_HEAD_SECONDARY Internal topology information broken (Unexpected null pointer on secondary port head).
0xC07000C6	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_UNEXPECTED_NULL_POINTER_TAIL_SECONDARY Internal topology information broken (Unexpected null pointer on secondary port tail).
0xC07000C7	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_UNEXPECTED_NULL_POINTER_HEAD_RING Internal topology information broken (Unexpected null pointer on ring head).
0xC07000C8	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_UNEXPECTED_NULL_POINTER_TAIL_RING Internal topology information broken (Unexpected null pointer on ring tail).
0xC07000C9	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_CIRCULAR_DEFECT_PRIMARY Internal topology information broken (circular defect, primary port).
0xC07000CA	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_CIRCULAR_DEFECT_SECONDARY Internal topology information broken (circular defect, secondary port).
0xC07000CB	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_CIRCULAR_DEFECT_RING Internal topology information broken (circular defect, ring).
0xC07000CC	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_RING_LIST_NOT_ENDING_ON_TAIL Internal topology information broken (ring list does not end on tail).
0xC07000CD	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_PRIMARY_LIST_NOT_ENDING_ON_TAIL Internal topology information broken (primary list does not end on tail).
0xC07000CE	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_SECONDARY_LIST_NOT_ENDING_ON_TAIL Internal topology information broken (secondary list does not end on tail).
0xC07000CF	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_NODE_LINKED_TO_BOTH_LISTS Internal topology information broken (Node linked to both lists).

Hexadecimal value	Definition and description
0xC07000D0	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_UNKNOWN_TOPOLOGY_VARIANT Internal topology information broken (Unknown topology variant).
0xC07000D1	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_NODE_IN_TOPOLOGY_FLAG_NOT_SET Internal topology information broken (Node in topology flag not set).
0xC07000D2	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_ADD_NODE_NOT_POSSIBLE_ON_RING Internal topology information broken (Add Node not possible on ring).
0xC07000D3	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_NODE_IN_TOPOLOGY_FLAG_ALREADY_SET Internal topology information broken (Node in topology flag already set).
0xC07000D4	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_INVALID_NODE_SPECIFIED Internal topology information broken (Invalid node specified).
0xC07000D5	ERR_SIII_MA_CP_INTERNAL_TOPOLOGY_INFORMATION_BROKEN_SPECIFIED_NODE_NOT_IN_TOPOLOGY Internal topology information broken (Specified Node not in topology).
0xC07000D6	ERR_SIII_MA_CP_INVALID_NRT_MTU_SPECIFIED Invalid NRT MTU specified in configuration.
0xC07000D7	ERR_SIII_MA_CP_SLAVE_ADDRESS_ALREADY_IN_DEVICE Slave address already configured in device relation.
0xC07000D8	ERR_SIII_MA_CP_TOO_MANY_SLAVES_CONFIGURED_IN_DEVICE Too many slaves configured in device.
0xC07000D9	ERR_SIII_MA_CP_INVALID_FIRST_ENTRY Invalid first entry.
0xC07000DA	ERR_SIII_MA_CP_CONNECTION_INSTANCE_ALREADY_IN_CONFIGURATION Connection instance already in configuration.
0xC07000DB	ERR_SIII_MA_CP_SCP_SYSTIME_CTRL_STAT_CONFIG_INCOMPLETE Incomplete SCP_SysTime Control/Status configuration.
0xC07000DC	ERR_SIII_MA_CP_INVALID_CONN_DPM_CONNCTRL_OFFSET Invalid connection DPM Connection Control Offset.
0xC07000DD	ERR_SIII_MA_CP_INVALID_CONN_DPM_RTDATA_OFFSET Invalid connection DPM RtData offset.
0xC07000DE	ERR_SIII_MA_CP_INVALID_CONNECTION_LENGTH Invalid connection length.
0xC07000DF	ERR_SIII_MA_CP_NOT_POSSIBLE_ON_REOPENED_CONFIG Not possible on re-opened configuration.
0xC07000E0	ERR_SIII_MA_CP_INVALID_INITCMD_IDX Invalid InitCmd index.
0xC07000E1	ERR_SIII_MA_CP_DUPLICATE_INITCMD_LABEL Duplicate InitCmd Label.
0xC07000E2	ERR_SIII_MA_CP_INITCMD_JUMP_LOGIC_NOT_COMPILED_IN InitCmd Jump logic not compiled into stack.

Table 99: Sercos Master CP result and status codes

3.9.10 Sercos Master Service Channel

Hexadecimal value	Definition and description
0xC0710001	ERR_SIII_MA_SVC_COMMAND_INVALID Invalid command value.
0xC0710002	ERR_SIII_MA_SVC_SLAVE_HS_TIMEOUT Slave Service Channel Handshake timeout.
0xC0710003	ERR_SIII_MA_SVC_SLAVE_BUSY_TIMEOUT Slave Service Channel Busy timeout.
0xC0710004	ERR_SIII_MA_SVC_SLAVE_ERROR Slave Service Channel error.
0xC0710005	ERR_SIII_MA_SVC_TRANSFER_ABORTED Service Channel transfer aborted.
0xC0710006	ERR_SIII_MA_SVC_INTERN_LOCKED Service Channels internally locked.
0xC0710010	ERR_SIII_MA_SVC_MACRO_STEP_OPENIDN_FAILED Service Channel Macro FSM: OpenIdn failed.
0xC0710011	ERR_SIII_MA_SVC_MACRO_STEP_READATTR_FAILED Service Channel Macro FSM: ReadAttribute failed.
0xC0710012	ERR_SIII_MA_SVC_MACRO_STEP_GETLL_FAILED Service Channel Macro FSM: Get ListLength failed.
0xC0710013	ERR_SIII_MA_SVC_MACRO_STEP_ACCESSDATA_FAILED Service Channel Macro FSM: Data access failed.
0xC0710014	ERR_SIII_MA_SVC_INTERNAL_ERROR Internal Error.
0xC0710015	ERR_SIII_MA_SVC_SLAVE_VALID_TIMEOUT Service Channel valid timeout.
0xC0710016	ERR_SIII_MA_SVC_INVALID_SENDER Invalid Sender.
0xC0710017	ERR_SIII_MA_SVC_ABORT_ALREADY_RUNNING Abort Already Running.
0xC0710018	ERR_SIII_MA_SVC_INVALID_ELEMENT The parameter element is wrong.
0xC0710019	ERR_SIII_MA_SVC_INVALID_SLAVE_ADDRESS The parameter slave address is wrong.
0xC071001A	ERR_SIII_MA_SVC_ATOMIC_TRANSFER_IN_USE Atomic transfer in use.
0xC071001B	ERR_SIII_MA_SVC_ABORT_NOT_POSSIBLE Abort not possible.
0xC071001C	ERR_SIII_MA_SVC_DESTID_UNEXPECTED Unexpected DestId in packet.
0xC071001D	ERR_SIII_MA_SVC_SEQUENCE_UNEXPECTED Unexpected sequence in packet.
0xC071001E	ERR_SIII_MA_SVC_CLOSED Service Channel is closed.
0xC071001F	ERR_SIII_MA_SVC_PARAMETER_UNEXPECTED SVC parameter is unexpected.
0xC0710020	ERR_SIII_MA_SVC_INVALID_PRIORITY Invalid priority.

Hexadecimal value	Definition and description
0xC0710021	ERR_SIII_MA_SVC_INVALID_ISLIST IsList parameter is wrong.
0xC0710022	ERR_SIII_MA_SVC_MACRO_TRANSFER_IN_USE A macro transfer is already started.
0xC0710023	ERR_SIII_MA_SVC_INVALID_CP Access the Service Channel is currently not allowed (wrong CP).
0x40710024	INFO_SIII_MA_SVC_REQUEST_PENDING Internal Information: Request is pending to be started.
0xC0710025	ERR_SIII_MA_SVC_ATTRIBUTE_NOT_ALLOWED_FOR_ELEMENT Attribute not allowed for element.
0xC0710026	ERR_SIII_MA_SVC_INVALID_ATTRIBUTE Invalid attribute.
0xC0710027	ERR_SIII_MA_SVC_ISLIST_NOT_ALLOWED_FOR_ELEMENT Value of usIsList not allowed for element.
0xC0710028	ERR_SIII_MA_SVC_SLAVE_NOT_AVAILABLE Service channel not available (Not Valid).

Table 100: Sercos Master service channel result and status codes

3.9.11 Sercos Master AP Task

Hexadecimal value	Definition and description
0xC0720001	ERR_SIII_MA_AP_COMMAND_INVALID Invalid command value.
0xC0720002	ERR_SIII_MA_AP_INVALID_STARTUP_PARAMETER Invalid Startup parameter.
0xC0720003	ERR_SIII_MA_AP_MDT_PROCESS_DATA_IMAGE_SIZE_NOT_POSSIBLE Output Process Data Image Size not possible (MDT).
0xC0720004	ERR_SIII_MA_AP_AT_PROCESS_DATA_IMAGE_SIZE_NOT_POSSIBLE Input Process Data Image Size not possible (AT).
0xC0720005	ERR_SIII_MA_AP_LLD_NOT_STARTED Sercos Low Level Driver not started.
0xC0720006	ERR_SIII_MA_AP_SET_PHASE_NOT_ALLOWED_DURING_CFG_LOADING Set Phase command not allowed during configuration loading.
0xC0720007	ERR_SIII_MA_AP_PACKET_CFG_INTERFACE_NOT_AVAILABLE_DURING_CFG_LOADING Configuration via packets is not available during configuration loading.
0xC0720008	ERR_SIII_MA_AP_C1D_DIAGNOSIS_ERROR C1D Diagnosis Error.
0xC0720009	ERR_SIII_MA_AP_BUS_SYNC_ERROR_THRESHOLD Bus Sync Error Threshold reached.
0xC072000A	ERR_SIII_MA_AP_CHANNEL_INIT Channel-Init detected.
0xC072000B	ERR_SIII_MA_AP_CPX_CP0_DEV_STATUS_INVALID_TIMEOUT CPx -> CP0 Dev Status Invalid Timeout.
0xC072000C	ERR_SIII_MA_AP_CP1_CP2_DEV_STATUS_INVALID_TIMEOUT CP1 -> CP2 Dev Status Invalid Timeout.
0xC072000D	ERR_SIII_MA_AP_CP2_CP3_DEV_STATUS_INVALID_TIMEOUT CP2 -> CP3 Dev Status Invalid Timeout.
0xC072000E	ERR_SIII_MA_AP_CP3_CP4_DEV_STATUS_INVALID_TIMEOUT CP3 -> CP4 Dev Status Invalid Timeout.
0xC072000F	ERR_SIII_MA_AP_CP1_DEV_STATUS_VALID_TIMEOUT CP1 Dev Status Valid Timeout.
0xC0720010	ERR_SIII_MA_AP_CP2_DEV_STATUS_VALID_TIMEOUT CP2 Dev Status Valid Timeout.
0xC0720011	ERR_SIII_MA_AP_CP3_DEV_STATUS_VALID_TIMEOUT CP3 Dev Status Valid Timeout.
0xC0720012	ERR_SIII_MA_AP_CP4_DEV_STATUS_VALID_TIMEOUT CP4 Dev Status Valid Timeout.
0xC0720013	ERR_SIII_MA_AP_CP3_TIMING_CONFIGURATION_ERROR CP3 Timing Configuration Error.
0xC0720014	ERR_SIII_MA_AP_CP0_CP1_TOPO_ADDR_INVALID_TIMEOUT CP0 -> CP1 Topology Address Invalid Timeout.
0xC0720015	ERR_SIII_MA_AP_UNKNOWN_STATE_CHG_STOPPED_REASON Unknown State Change Stopped Reason.
0xC0720016	ERR_SIII_MA_AP_INITCMD_ERROR Service channel access failed (InitCmd).
0xC0720017	ERR_SIII_MA_AP_CONN_LENGTH_ERROR Connection Length mismatch.

Hexadecimal value	Definition and description
0xC0720018	ERR_SIII_MA_AP_S_0_127_COMMAND_ERROR S-0-127 Command execution ended with error.
0xC0720019	ERR_SIII_MA_AP_S_0_128_COMMAND_ERROR S-0-128 Command execution ended with error.
0xC072001A	ERR_SIII_MA_AP_S_0_1024_COMMAND_ERROR S-0-1024 Command execution ended with error.
0xC072001B	ERR_SIII_MA_AP_MDT_NOT_EXCHANGED MDT not exchanged.
0xC072001C	ERR_SIII_MA_AP_AT_NOT_EXCHANGED AT not exchanged.
0xC072001D	ERR_SIII_MA_AP_FRAME_LOSS Frame loss.
0xC072001E	ERR_SIII_MA_AP_EXT_TRIGGER_TIMEOUT No signal on External Trigger input within timeout.
0xC072001F	ERR_SIII_MA_AP_EXT_TRIGGER_LOSS Signal lost on External Trigger input.
0xC0720020	ERR_SIII_MA_AP_ALL_SLAVES_LOST All slaves lost.
0xC0720021	ERR_SIII_MA_AP_BUS_SCAN_TIMEOUT Bus Scan Timeout.
0xC0720022	ERR_SIII_MA_AP_INTERNAL_ERROR Internal Error detected.
0xC0720023	ERR_SIII_MA_AP_S_0_1050_X_5_CONN_LENGTH_READ_ERROR Connection Length could not be read due to incorrect configuration.
0xC0724000	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_OPENING_TAG XML structure: Closing Tag does not match opening tag.
0xC0724001	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_NUMBER_FIELD XML structure: Unexpected opening tag in number field.
0xC0724002	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_NUMBER_FIELD XML structure: Unexpected single tag in number field.
0xC0724003	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_NUMBER_FIELD_TAG XML structure: Closing tag does not match number field tag.
0xC0724004	ERR_SIII_MA_AP_XML_NUMBER_FIELD_IS_INVALID XML structure: Number Field is invalid.
0xC0724005	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_STRING_FIELD XML structure: Unexpected opening tag in string field.
0xC0724006	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_STRING_FIELD XML structure: Unexpected single tag in string field.
0xC0724007	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_STRING_FIELD_TAG XML structure: Closing tag does not match string field tag.
0xC0724008	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_DATA_FIELD XML structure: Unexpected opening tag in data field.
0xC0724009	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_DATA_FIELD XML structure: Unexpected single tag in data field.
0xC072400A	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_DATA_FIELD_TAG XML structure: Closing tag does not match data field tag.
0xC072400B	ERR_SIII_MA_AP_XML_DATA_FIELD_IS_NOT_A_HEX_STRING XML structure: Data field is not a hex string.

Hexadecimal value	Definition and description
0xC072400C	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_SIIICFG_BLOCK XML structure: Unexpected opening tag in SIIICfg block.
0xC072400D	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_SIIICFG_BLOCK XML structure: Unexpected tag in SIIICfg block.
0xC072400E	ERR_SIII_MA_AP_XML_UNEXPECTED_CLOSING_TAG_IN_SIIICFG_BLOCK XML structure: Unexpected closing tag in SIIICfg block.
0xC072400F	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_TAG_IN_SIIICFG_BLOCK_SLAVE_PART XML structure: Unexpected closing tag in SIIICfg block (Slave Part).
0xC0724010	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_SIIICFG_TAG XML structure: Closing tag does not match SIIICfg tag.
0xC0724011	ERR_SIII_MA_AP_XML_FILE_IS_NOT_A_SIIICFG_XML XML structure: XML file does not contain a SIIICfg xml.
0xC0724012	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_STD_PARAMS_MASTER_BLOCK XML structure: Unexpected tag in std_params_master block.
0xC0724013	ERR_SIII_MA_AP_XML_STD_PARAMS_MASTER_BLOCK_IS_INCOMPLETE XML structure: Incomplete std_params_master block.
0xC0724014	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_STD_PARAMS_MASTER_BLOCK XML structure: Duplicate tag in std_params_master block.
0xC0724015	ERR_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	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_PARAMS_MASTER_BLOCK XML structure: Unexpected single tag in params_master block.
0xC0724017	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_PARAMS_MASTER_BLOCK XML structure: Duplicate tag in params_master block.
0xC0724018	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_PARAMS_MASTER_BLOCK XML structure: Unexpected opening tag in params_master block.
0xC0724019	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_PARAMS_MASTER_TAG XML structure: Closing tag does not match params_master tag.
0xC072401A	ERR_SIII_MA_AP_XML_PARAMS_MASTER_BLOCK_IS_INCOMPLETE XML structure: Incomplete params_master block.
0xC072401B	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_SYS_IDN_ENTRY_BLOCK XML structure: Unexpected opening tag in sys_idn_entry block.
0xC072401C	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_SYS_IDN_ENTRY_BLOCK XML structure: Duplicate tag in sys_idn_entry block.
0xC072401D	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_SYS_IDN_ENTRY_BLOCK XML structure: Unexpected single tag in sys_idn_entry block.
0xC072401E	ERR_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	ERR_SIII_MA_AP_XML_SYS_IDN_ENTRY_BLOCK_IS_INCOMPLETE XML structure: Incomplete sys_idn_entry block.
0xC0724020	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_SYS_GLOBAL_IDNS_BLOCK XML structure: Unexpected opening tag in sys_global_idns block.
0xC0724021	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_SYS_GLOBAL_IDNS_BLOCK XML structure: Unexpected single tag in sys_global_idns block.
0xC0724022	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_SYS_GLOBAL_IDNS_TAG XML structure: Closing tag does not match sys_global_idns tag.

Hexadecimal value	Definition and description
0xC0724023	ERR_SIII_MA_AP_XML_SYS_GLOBAL_IDNS_BLOCK_IS_INCOMPLETE XML structure: Incomplete sys_global_idns block.
0xC0724024	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_MASTER_BLOCK XML structure: Unexpected opening tag in master block.
0xC0724025	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_MASTER_BLOCK XML structure: Unexpected single tag in master block.
0xC0724026	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_MASTER_TAG XML structure: Closing tag does not match master tag.
0xC0724027	ERR_SIII_MA_AP_XML_MASTER_BLOCK_IS_INCOMPLETE XML structure: Incomplete master block.
0xC0724028	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_MASTER_BLOCK XML structure: Duplicate tag in master block.
0xC0724029	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_TELEGRAM_ASSIGNMENT_BLOCK XML structure: Unexpected single tag in telegram assignment block.
0xC072402A	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_TELEGRAM_ASSIGNMENT_BLOCK XML structure: Unexpected opening tag in telegram assignment block.
0xC072402B	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_TELEGRAM_ASSIGNMENT_BLOCK XML structure: Duplicate tag in telegram assignment block.
0xC072402C	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_TELEGRAM_ASSIGNMENT_TAG XML structure: Closing tag does not match telegram assignment tag.
0xC072402D	ERR_SIII_MA_AP_XML_TELEGRAM_ASSIGNMENT_IS_INCOMPLETE XML structure: telegram assignment block is incomplete.
0xC072402E	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_STD_PARAMS_SLAVE_BLOCK XML structure: Unexpected single tag in std_params_slave block.
0xC072402F	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_STD_PARAMS_SLAVE_BLOCK XML structure: Unexpected opening tag in std_params_slave block.
0xC0724030	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_STD_PARAMS_SLAVE_BLOCK XML structure: Duplicate tag in std_params_slave block.
0xC0724031	ERR_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	ERR_SIII_MA_AP_XML_STD_PARAMS_SLAVE_BLOCK_IS_INCOMPLETE XML structure: std_params_slave block is incomplete.
0xC0724033	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_PARAMS_SLAVE_BLOCK XML structure: Unexpected single tag in params_slave block.
0xC0724034	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_PARAMS_SLAVE_BLOCK XML structure: Unexpected opening tag in params_slave block.
0xC0724035	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_PARAMS_SLAVE_BLOCK XML structure: Duplicate tag in params_slave block.
0xC0724036	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_PARAMS_SLAVE_TAG XML structure: Closing tag does not match params_slave tag.
0xC0724037	ERR_SIII_MA_AP_XML_PARAMS_SLAVE_BLOCK_IS_INCOMPLETE XML structure: params_slave block is incomplete.
0xC0724038	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_SLAVE_BLOCK XML structure: Unexpected single tag in slave block.
0xC0724039	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_SLAVE_BLOCK XML structure: Unexpected opening tag in slave block.

Hexadecimal value	Definition and description
0xC072403A	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_SLAVE_BLOCK XML structure: Duplicate tag in slave block.
0xC072403B	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_SLAVE_TAG XML structure: Closing tag does not match slave tag.
0xC072403C	ERR_SIII_MA_AP_XML_SLAVE_BLOCK_IS_INCOMPLETE XML structure: slave block is incomplete.
0xC072403D	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_IDN_ENTRY_DATA_BLOCK XML structure: Unexpected single tag in idn_entry block.
0xC072403E	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_IDN_ENTRY_DATA_BLOCK XML structure: Unexpected opening tag in idn_entry block.
0xC072403F	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_IDN_ENTRY_DATA_BLOCK XML structure: Duplicate tag in idn_entry block.
0xC0724040	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_IDN_ENTRY_DATA_TAG XML structure: Closing tag does not match idn_entry tag.
0xC0724041	ERR_SIII_MA_AP_XML_IDN_ENTRY_BLOCK_DATA_IS_INCOMPLETE XML structure: idn_entry block is incomplete.
0xC0724042	ERR_SIII_MA_AP_XML_IDN_ENTRY_BLOCK_HAS_INVALID_ATTRIBUTE XML structure: idn_entry block has invalid attribute.
0xC0724043	ERR_SIII_MA_AP_XML_IDN_ENTRY_DATA_BLOCK_HAS_INVALID_DATA XML structure: idn_entry block has invalid data.
0xC0724044	ERR_SIII_MA_AP_XML_IDN_ENTRY_DATA_BLOCK_CONTAINS_NON_HEX_DIGIT_CHARACTERS XML structure: idn_entry block contains non-hex digit characters.
0xC0724045	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_IDN_ENTRY_BLOCK XML structure: Unexpected single tag in idn_entry block.
0xC0724046	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_IDN_ENTRY_BLOCK XML structure: Unexpected opening tag in idn_entry block.
0xC0724047	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_IDN_ENTRY_BLOCK XML structure: Duplicate tag in idn_entry block.
0xC0724048	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_IDN_ENTRY_TAG XML structure: Closing tag does not match idn_entry tag.
0xC0724049	ERR_SIII_MA_AP_XML_IDN_ENTRY_BLOCK_IS_INCOMPLETE XML structure: idn_entry block is incomplete.
0xC072404A	ERR_SIII_MA_AP_XML_UNEXPECTED_SEQUENCE_OF_TAGS_IN_IDN_ENTRY_BLOCK XML structure: Unexpected sequence of tags in idn_entry block.
0xC072404B	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_IDN_CONFIG_BLOCK XML structure: Unexpected single tag in idn_config block.
0xC072404C	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_IDN_CONFIG_BLOCK XML structure: Unexpected opening tag in idn_config block.
0xC072404D	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_IDN_CONFIG_TAG XML structure: Closing tag does not match idn_config tag.
0xC072404E	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_CONNECTION_ENTRY_BLOCK XML structure: Unexpected single tag in connection_entry block.
0xC072404F	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_CONNECTION_ENTRY_BLOCK XML structure: Unexpected opening tag in connection_entry block.
0xC0724050	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_CONNECTION_ENTRY_BLOCK XML structure: Duplicate tag in connection_entry block.

Hexadecimal value	Definition and description
0xC0724051	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_CONNECTION_ENTRY_TAG XML structure: Closing tag does not match connection_entry tag.
0xC0724052	ERR_SIII_MA_AP_XML_CONNECTION_ENTRY_BLOCK_IS_INCOMPLETE XML structure: connection_entry block is incomplete.
0xC0724053	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_CONNECTIONS_BLOCK XML structure: Unexpected single tag in connections block.
0xC0724054	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_CONNECTIONS_BLOCK XML structure: Unexpected opening tag in connections block.
0xC0724055	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_CONNECTIONS_TAG XML structure: Closing tag does not match connections tag.
0xC0724056	ERR_SIII_MA_AP_XML_UNEXPECTED_SINGLE_TAG_IN_CONFIG_BLOCK XML structure: Unexpected single tag in config block.
0xC0724057	ERR_SIII_MA_AP_XML_UNEXPECTED_OPENING_TAG_IN_CONFIG_BLOCK XML structure: Unexpected opening tag in config block.
0xC0724058	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_CONFIG_BLOCK XML structure: Duplicate tag in config block.
0xC0724059	ERR_SIII_MA_AP_XML_CLOSING_TAG_DOES_NOT_MATCH_CONFIG_TAG XML structure: Closing tag does not match config tag.
0xC072405A	ERR_SIII_MA_AP_XML_CONFIG_BLOCK_IS_INCOMPLETE XML structure: config block is incomplete.
0xC072405B	ERR_SIII_MA_AP_XML_UNEXPECTED_SEQUENCE_OF_TAGS_IN_CONFIG_BLOCK XML structure: Unexpected sequence of tags in config block.
0xC072405C	ERR_SIII_MA_AP_XML_INVALID_DATA_LENGTH_OF_SYS_IDN_ENTRY XML structure: Invalid Data Length of Sys Idn Entry.
0xC072405D	ERR_SIII_MA_AP_XML_DUPLICATE_TAG_IN_SYS_GLOBAL_IDNS_BLOCK XML structure: Duplicate tag in sys_global_idns block.
0xC072405E	ERR_SIII_MA_AP_XML_UNSUPPORTED_IDN_IN_SYS_GLOBAL_IDNS_BLOCK XML structure: Unsupported IDN in sys_global_idns block.
0xC072405F	ERR_SIII_MA_AP_XML_INVALID_IDN_DATA_IN_SYS_GLOBAL_IDNS_BLOCK XML structure: Invalid IDN data in sys_global_idns block.
0xC0724060	ERR_SIII_MA_AP_XML_INVALID_TELEGRAM_NUMBER_IN_TELEGRAM_ASSIGNMENT XML structure: Invalid Telegram Number in Telegram Assignment.
0xC0724061	ERR_SIII_MA_AP_XML_INVALID_TELEGRAM_OFFSET_IN_TELEGRAM_ASSIGNMENT XML structure: Invalid Telegram Offset in Telegram Assignment.
0xC0724062	ERR_SIII_MA_AP_XML_INVALID_VALUE_IN_ACTIVE_FIELD XML structure: Invalid Value in Active Field.
0xC0724063	ERR_SIII_MA_AP_XML_INVALID_SERCOS_ADDRESS XML structure: Invalid sercos Address in Configuration.
0xC0724064	ERR_SIII_MA_AP_XML_INVALID_VALUE_IN_HOTPLUG_FIELD XML structure: Invalid Value in Hot Plug Field.
0xC0724065	ERR_SIII_MA_AP_XML_INVALID_VALUE_IN_NRT_SUPPORT_FIELD XML structure: Invalid Value in NRT Support Field.
0xC0724066	ERR_SIII_MA_AP_XML_IDN_DATA_LENGTH_INVALID XML structure: IDN Data Length invalid.
0xC0724067	ERR_SIII_MA_AP_XML_IDN_PHASE_TRANSITION_INVALID XML structure: IDN Phase Transition invalid.
0xC0724068	ERR_SIII_MA_AP_XML_IDN_ELEMENT_INVALID XML structure: IDN Element invalid.

Hexadecimal value	Definition and description
0xC0724069	ERR_SIII_MA_AP_XML_CONNECTION_NUMBER_INVALID XML structure: Connection Number invalid.
0xC072406A	ERR_SIII_MA_AP_XML_CONNECTION_TELEGRAM_OFFSET_INVALID XML structure: Connection Telegram Offset invalid.
0xC072406B	ERR_SIII_MA_AP_XML_CONNECTION_TELEGRAM_NUMBER_INVALID XML structure: Connection Telegram Number invalid.
0xC072406C	ERR_SIII_MA_AP_XML_CONNECTION_TELEGRAM_TYPE_INVALID XML structure: Connection Telegram Type invalid.
0xC072406D	ERR_SIII_MA_AP_XML_CONNECTION_LENGTH_INVALID XML structure: Connection Length invalid.
0xC072406E	ERR_SIII_MA_AP_XML_CONNECTION_RTDATA_DPM_OFFSET_INVALID XML structure: Connection RtData DPM Offset invalid.
0xC072406F	ERR_SIII_MA_AP_XML_CONNECTION_CCTRL_DPM_OFFSET_INVALID XML structure: Connection CCtrl DPM Offset invalid.
0xC0724070	ERR_SIII_MA_AP_XML_INVALID_SEQUENCE_OF_TAGS_IN_SIIICFG_BLOCK XML structure: Invalid sequence of tags in SIIICfg Block.
0xC0724071	ERR_SIII_MA_AP_AT_LEAST_ONE_SLAVE_MISSING At least one slave is missing.
0xC0724072	ERR_SIII_MA_AP_BUS_IS_SPLIT_IN_TWO_LINES Bus is split in two lines.
0xC0724073	ERR_SIII_MA_AP_NO_SLAVES_CONNECTED No slaves connected.
0xC0724074	ERR_SIII_MA_AP_UNCONFIGURED_SLAVE_DETECTED At least one unconfigured slave detected.
0xC0724075	ERR_SIII_MA_AP_DUPLICATE_SERCOS_ADDRESS Duplicatsercosaddress detected.
0xC0724076	ERR_SIII_MA_AP_INVALID_SERCOS_ADDRESS_DETECTED Invalid sercos address detected.
0xC0724077	ERR_SIII_MA_AP_SVCH_ERROR_ON_SLAVE Service channel access on one slave ended with error.
0xC0724078	ERR_SIII_MA_AP_INVALID_CP0_BUS_STATUS Invalid CP0 Bus Status.
0xC0724079	ERR_SIII_MA_AP_DEVICE_IDENT_MISMATCH Device Ident Mismatch.
0xC072407A	ERR_SIII_MA_AP_FEATURES_NOT_ACKNOWLEDGED Advertised features in CP0 are not acknowledged.
0xC072407B	ERR_SIII_MA_AP_NO_MATCHING_MANDATORY_SLAVE_LIST No matching mandatory slave list.
0xC072407C	ERR_SIII_MA_AP_FIRMWARE_HAS_CRASHED Firmware has crashed.
0xC072407D	ERR_SIII_MA_AP_PACKET_CMD_NOT_ALLOWED Packet command not allowed.

Table 101: Sercos Master AP task result and status codes

3.9.12 Sercos Master NRT

Hexadecimal value	Definition and description
0xC0790001	ERR_SIII_MA_NRT_INVALID_STARTUP_PARAMETER Invalid Startup parameter.
0xC0790002	ERR_SIII_MA_NRT_S3FRAMES_NOT_ALLOWED SERCOSIII frames not allowed.
0xC0790003	ERR_SIII_MA_NRT_LLD_NOT_STARTED Sercos Low Level Driver not started.

Table 102: Sercos Master NRT result and status codes

3.9.13 Sercos Slave IDN

Hexadecimal value	Definition and description
0xC0850001	ERR_SERCOSIII_SL_IDN_COMMAND_INVALID Invalid command.
0xC0850004	ERR_SERCOSIII_SL_IDN_ALREADY_EXISTS IDN already exists.
0xC0850005	ERR_SERCOSIII_SL_IDN_ATTRIBUTE_INVALID Invalid attribute specified.
0xC0850006	ERR_SERCOSIII_SL_IDN_INVALID_MAX_DATA_SIZE_SPECIFIED Invalid max data size specified.
0xC0850007	ERR_SERCOSIII_SL_IDN_SLAVE_INDEX_INVALID Slave index invalid.
0xC0850008	ERR_SERCOSIII_SL_IDN_UNDEFINED_NOTIFY_ALREADY_IN_USE Undefined notify already in use.
0xC0850009	ERR_SERCOSIII_SL_IDN_INVALID_ELEMENT_ID Invalid element id.
0xC085000A	ERR_SERCOSIII_SL_IDN_APP_PACKET_RESPONSE_INVALID Response Packet of Application invalid.
0xC085000B	ERR_SERCOSIII_SL_IDN_APP_TRANSFER_TOO_LONG Transfer Data of Application too long.
0xC085000C	ERR_SERCOSIII_SL_IDN_APP_TRANSFER_LENGTH_WRONG Transfer Data length of Application invalid.
0xC085000D	ERR_SERCOSIII_SL_IDN_APP_MTU_TOO_LOW MTU of Application too low.
0xC085000E	ERR_SERCOSIII_SL_IDN_INVALID_DEST_ID Invalid Dest ID.
0xC085000F	ERR_SERCOSIII_SL_IDN_LISTS_CANNOT_HAVE_A_MINIMUM_VALUE Lists cannot have a minimum value.
0xC0850010	ERR_SERCOSIII_SL_IDN_LISTS_CANNOT_HAVE_A_MAXIMUM_VALUE Lists cannot have a maximum value.
0xC0850011	ERR_SERCOSIII_SL_IDN_NAME_EXCEEDS_ALLOCATED_LENGTH Name exceeds allocated length.
0xC0850012	ERR_SERCOSIII_SL_IDN_UNIT_EXCEEDS_ALLOCATED_LENGTH Unit exceeds allocated length.
0xC0850013	ERR_SERCOSIII_SL_IDN_OPDATA_EXCEEDS_ALLOCATED_LENGTH OpData exceeds allocated length.
0xC0850014	ERR_SERCOSIII_SL_IDN_INVALID_MAX_LIST_LENGTH Invalid max list length.
0xC0850015	ERR_SERCOSIII_SL_IDN_DEFAULT_VALUE_EXCEEDS_ALLOCATED_LENGTH Default value exceeds allocated length.
0xC0850016	ERR_SERCOSIII_SL_IDN_MINIMUM_AND_MAXIMUM_VALUE_MUST_BE_USED_TOGETHER Minimum and maximum value must be used together.
0xC0850017	ERR_SERCOSIII_SL_IDN_USER_APPLICATION_TRANSFER_ERROR User application transfer error.
0xC0850018	ERR_SERCOSIII_SL_IDN_INTERNALLY_HANDLED_IDN IDN is handled internally.
0xC0851001	ERR_SERCOSIII_SL_IDN_NO_IDN IDN not available.

Hexadecimal value	Definition and description
0xC0851009	ERR_SERCOSIII_SL_IDN_INVALID_ACCESS_TO_ELEMENT_1 Invalid access to element 1.
0xC0852001	ERR_SERCOSIII_SL_IDN_NO_NAME No Name.
0xC0852002	ERR_SERCOSIII_SL_IDN_NAME_TRANSMISSION_IS_TOO_SHORT Name transmission is too short.
0xC0852003	ERR_SERCOSIII_SL_IDN_NAME_TRANSMISSION_IS_TOO_LONG Name transmission is too long.
0xC0852004	ERR_SERCOSIII_SL_IDN_NAME_CANNOT_BE_CHANGED Name cannot be changed (read only).
0xC0852005	ERR_SERCOSIII_SL_IDN_NAME_IS_WRITE_PROTECTED_AT_THIS_TIME Name is write protected at this time.
0xC0852016	ERR_SERCOSIII_SL_IDN_NAME_APPLICATION_TIMEOUT Application timeout occurs in the slave.
0xC0853002	ERR_SERCOSIII_SL_IDN_ATTRIBUTE_TRANSMISSION_IS_TOO_SHORT Attribute transmission is too short.
0xC0853003	ERR_SERCOSIII_SL_IDN_ATTRIBUTE_TRANSMISSION_IS_TOO_LONG Attribute transmission is too long.
0xC0853004	ERR_SERCOSIII_SL_IDN_ATTRIBUTE_CANNOT_BE_CHANGED Attribute cannot be changed (read only).
0xC0853005	ERR_SERCOSIII_SL_IDN_ATTRIBUTE_IS_WRITE_PROTECTED_AT_THIS_TIME Attribute is write protected at this time.
0xC0853016	ERR_SERCOSIII_SL_IDN_ATTRIBUTE_APPLICATION_TIMEOUT Application timeout occurs in the slave.
0xC0854001	ERR_SERCOSIII_SL_IDN_NO_UNIT No unit.
0xC0854002	ERR_SERCOSIII_SL_IDN_UNIT_TRANSMISSION_IS_TOO_SHORT Unit transmission is too short.
0xC0854003	ERR_SERCOSIII_SL_IDN_UNIT_TRANSMISSION_IS_TOO_LONG Unit transmission is too long.
0xC0854004	ERR_SERCOSIII_SL_IDN_UNIT_CANNOT_BE_CHANGED Unit cannot be changed (read only).
0xC0854005	ERR_SERCOSIII_SL_IDN_UNIT_IS_WRITE_PROTECTED_AT_THIS_TIME Unit is write protected at this time.
0xC0854016	ERR_SERCOSIII_SL_IDN_UNIT_APPLICATION_TIMEOUT Application timeout occurs in the slave.
0xC0855001	ERR_SERCOSIII_SL_IDN_NO_MINIMUM_VALUE No minimum value.
0xC0855002	ERR_SERCOSIII_SL_IDN_MINIMUM_VALUE_TRANSMISSION_IS_TOO_SHORT Minimum value transmission is too short.
0xC0855003	ERR_SERCOSIII_SL_IDN_MINIMUM_VALUE_TRANSMISSION_IS_TOO_LONG Minimum value transmission is too long.
0xC0855004	ERR_SERCOSIII_SL_IDN_MINIMUM_VALUE_CANNOT_BE_CHANGED Minimum value cannot be changed (read only).
0xC0855005	ERR_SERCOSIII_SL_IDN_MINIMUM_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME Minimum value is write protected at this time.
0xC0855016	ERR_SERCOSIII_SL_IDN_MAINIMUM_VALUE_APPLICATION_TIMEOUT Application timeout occurs in the slave.

Hexadecimal value	Definition and description
0xC0856001	ERR_SERCOSIII_SL_IDN_NO_MAXIMUM_VALUE No maximum value.
0xC0856002	ERR_SERCOSIII_SL_IDN_MAXIMUM_VALUE_TRANSMISSION_IS_TOO_SHORT Maximum value transmission is too short.
0xC0856003	ERR_SERCOSIII_SL_IDN_MAXIMUM_VALUE_TRANSMISSION_IS_TOO_LONG Maximum value transmission is too long.
0xC0856004	ERR_SERCOSIII_SL_IDN_MAXIMUM_VALUE_CANNOT_BE_CHANGED Maximum value cannot be changed (read only).
0xC0856005	ERR_SERCOSIII_SL_IDN_MAXIMUM_VALUE_IS_WRITE_PROTECTED_AT_THIS_TIME Maximum value is write protected at this time.
0xC0856016	ERR_SERCOSIII_SL_IDN_MAXIMUM_VALUE_APPLICATION_TIMEOUT Application timeout occurs in the slave.
0xC0857002	ERR_SERCOSIII_SL_IDN_OPDATA_TRANSMISSION_IS_TOO_SHORT Operation data transmission is too short.
0xC0857003	ERR_SERCOSIII_SL_IDN_OPDATA_TRANSMISSION_IS_TOO_LONG Operation data transmission is too long.
0xC0857004	ERR_SERCOSIII_SL_IDN_OPDATA_CANNOT_BE_CHANGED Operation data cannot be changed (read only).
0xC0857005	ERR_SERCOSIII_SL_IDN_OPDATA_IS_WRITE_PROTECTED_AT_THIS_TIME Operation data is write protected at this time.
0xC0857006	ERR_SERCOSIII_SL_IDN_OPDATA_IS_LOWER_THAN_MINIMUM_VALUE Operation data is lower than Minimum value.
0xC0857007	ERR_SERCOSIII_SL_IDN_OPDATA_IS_HIGHER_THAN_MAXIMUM_VALUE Operation data is higher than Maximum value.
0xC0857008	ERR_SERCOSIII_SL_IDN_OPDATA_IS_INVALID Invalid operation data.
0xC0857009	ERR_SERCOSIII_SL_IDN_OPDATA_IS_WRITE_PROTECTED_BY_PASSWORD Operation data is write protected by password.
0xC085700A	ERR_SERCOSIII_SL_IDN_OPDATA_IS_WRITE_PROTECTED_DUE_CYCLICALLY_CONFIGURED Operation data is write protected. It is configured cyclically.
0xC085700B	ERR_SERCOSIII_SL_IDN_OPDATA_INVALID_INDIRECT_ADDRESSING Invalid indirect addressing.
0xC085700C	ERR_SERCOSIII_SL_IDN_OPDATA_IS_WRITE_PROTECTED_DUE_OTHER_SETTINGS Operation data is write protected due other settings.
0xC085700D	ERR_SERCOSIII_SL_IDN_OPDATA_INVALID_FLOATING_POINT_NUMBER Invalid floating point number.
0xC085700E	ERR_SERCOSIII_SL_IDN_OPDATA_IS_WRITE_PROTECTED_AT_PARAMETERIZATION_LEVEL Operation data is write protected at parameterization level.
0xC085700F	ERR_SERCOSIII_SL_IDN_OPDATA_IS_WRITE_PROTECTED_AT_OPERATION_LEVEL Operation data is write protected at operation level.
0xC0857010	ERR_SERCOSIII_SL_IDN_OPDATA_PROCEDURE_COMMAND_ALREADY_ACTIVE Procedure command already active.
0xC0857011	ERR_SERCOSIII_SL_IDN_OPDATA_PROCEDURE_COMMAND_NOT_INTERRUPTIBLE Procedure command not interruptible.
0xC0857012	ERR_SERCOSIII_SL_IDN_OPDATA_PROCEDURE_COMMAND_NOT_EXECUTABLE_AT_THIS_TIME Procedure Command is not executable at this time (e.g. wrong slave state).

Hexadecimal value	Definition and description
0xC0857013	ERR_SERCOSIII_SL_IDN_OPDATA_PROCEDURE_COMMAND_NOT_EXECUTABLE_INVALID_PARAM Procedure Command is not executable due invalid parameters.
0xC0857014	ERR_SERCOSIII_SL_IDN_OPDATA_LIST_PARAMETER_NOT_EXCEPTED The received current length of list parameter does not match to expectation.
0xC0857015	ERR_SERCOSIII_SL_IDN_OPDATA_NOT_YET_CREATED_COMPLETELEY Operation data is not yet created completely (it takes more time to create the operation data, try it again later).
0xC0857016	ERR_SERCOSIII_SL_IDN_OPDATA_APPLICATION_TIMEOUT Application timeout occurs in the slave.
0xC0857017	ERR_SERCOSIII_SL_IDN_NAME_INVALID_CODING IDN name coding is not UTF8 conform.

Table 103: Sercos Slave IDN error codes

3.9.14 Sercos Master ACFG

Hexadecimal value	Definition and description
0xC0B70001	ERR_SIII_MA_ACFG_INVALID_STARTUP_PARAMETER Invalid startup parameter.
0xC0B70002	ERR_SIII_MA_ACFG_REQUEST_ABORTED Request aborted.
0xC0B70003	ERR_SIII_MA_ACFG_UNKNOWN_CONFIG_TYPE_ON_SLAVE Unknown SCP config type on slave.
0xC0B70004	ERR_SIII_MA_ACFG_UNSUPPORTED_PROFILE_DETECTED Unsupported profile detected (FSP).
0xC0B70005	ERR_SIII_MA_ACFG_UNSUPPORTED_PROFILE_TYPE_CFG_TYPE_COMBINATION_DETECTED Unsupported SCP config and FSP profile combination detected.
0xC0B70006	ERR_SIII_MA_ACFG_SLAVE_DID_NOT_ACCEPT_OUR_CONNECTION_PARAMETERS Slave did not accept connection parameters.
0xC0B70007	ERR_SIII_MA_ACFG_IGNORED_SVC_ERROR Ignored svc error.
0xC0B70008	ERR_SIII_MA_ACFG_DUPLICATE_UNCHANGEABLE_SERCOS_ADDRESSES Duplicate unchangeable sercos addresses detected.
0xC0B70009	ERR_SIII_MA_ACFG_INVALID_UNCHANGEABLE_SERCOS_ADDRESS Invalid unchangeable sercos address detected.
0xC0B7000A	ERR_SIII_MA_ACFG_ASSIGNING_SERCOS_ADDRESSES_DENIED_BY_MIN_MAX Assign sercos addresses denied by minimum and/or maximum value.
0xC0B7000B	ERR_SIII_MA_ACFG_ASSIGNING_SERCOS_ADDRESSES_DENIED_WHEN_WRITING Assign sercos addresses denied when writing.
0xC0B7000C	ERR_SIII_MA_ACFG_NOT_ENOUGH_IP_ADDRESSES_AVAILABLE Not enough IP addresses available.
0xC0B7000D	ERR_SIII_MA_ACFG_WRONG_MASTER_IP_ADDRESS Wrong Master IP Address.
0xC0B7000E	ERR_SIII_MA_ACFG_WRONG_GATEWAY_IP_ADDRESS Wrong Gateway IP Address.

Table 104: Sercos Master ACFG result and status codes

3.9.15 Sercos Master SIP

Hexadecimal value	Definition and description
0xC0BA0001	ERR_SIII_MA_SIP_INVALID_STARTUP_PARAMETER Invalid Startup parameter.
0xC0BA0002	ERR_SIII_MA_SIP_CONNECTION_ERROR Connection Error.
0xC0BA0003	ERR_SIII_MA_SIP_TIMEOUT Timeout.
0xC0BA0004	ERR_SIII_MA_SIP_UNKNOWN_MESSAGE_TYPE Unknown message type.
0xC0BA0005	ERR_SIII_MA_SIP_SERVICE_SPECIFIC_ERROR Service specific error.
0xC0BA0006	ERR_SIII_MA_SIP_PDU_TOO_LARGE PDU too large.
0xC0BA0007	ERR_SIII_MA_SIP_PDU_PROTOCOL_MISMATCH PDU protocol mismatch.

Table 105: Sercos Master SIP result and status codes

3.9.16 Sercos netPROXY

Hexadecimal value	Definition and description
0xC0BC0001	ERR_NETPROXY_S3S_WRONG_DIAGNOSIS_TYPE Invalid diagnosis type.
0xC0BC0002	ERR_NETPROXY_S3S_COMMAND_CALLBACK_INVALID_STATE Command callback invalid state.
0xC0BC0003	ERR_NETPROXY_S3S_OUTPUT_DIAG_FAILED Handling of output diagnosis failed.
0xC0BC0004	ERR_NETPROXY_S3S_CREATE_IDN_FAILED IDN creation failed.
0xC0BC0005	ERR_NETPROXY_S3S_IDN_LOOKUP_FAILED IDN lookup failed.
0xC0BC0006	ERR_NETPROXY_S3S_INVALID_SLAVE_INDEX Change address with an invalid slave address.
0xC0BC0007	ERR_NETPROXY_S3S_READ_CONFIRMATION_FALSE_ELEMENT Wrong element access within a read confirmation.
0xC0BC0008	ERR_NETPROXY_S3S_DIAG_EVENT_HANDLING_FAILED Diagnosis event handling failed.
0xC0BC0009	ERR_NETPROXY_S3S_UNKNOWN_CYCLIC_EVENT Unknown cyclic event.
0xC0BC000A	ERR_NETPROXY_S3S_INVALID_OUTPUT_IDN Invalid output IDN.
0xC0BC000B	ERR_NETPROXY_S3S_INVALID_PDIN Invalid PDION.
0xC0BC000C	ERR_NETPROXY_S3S_ROTARY_SWITCH_INVALID Invalid rotary switch position.
0xC0BC000D	ERR_NETPROXY_S3S_UNKNOWN_DIAG_MAPPING Unknown diagnosis mapping.
0xC0BC000E	ERR_NETPROXY_S3S_UNKNOWN_OUTPUT_OBJECT Unknown output object.
0xC0BC000F	ERR_NETPROXY_S3S_UNSUPPORTED_IO_FG Configured IO FG not supported.
0xC0BC0010	ERR_NETPROXY_S3S_OBJECT_NOT_FOUND Object not found.
0xC0BC0011	ERR_NETPROXY_S3S_UNSUPPORTED_CONNECTION The connection is not supported.
0xC0BC0012	ERR_NETPROXY_S3S_IO_CONTAINER_EMPTY The IO container is empty.

Table 106: Sercos netPROXY result and status codes

3.10 VARAN

3.10.1 VARAN Client

Hexadecimal value	Definition and description
0xC09C0000	ERR_VARAN_CLIENT_COMMAND_INVALID Invalid command received.
0xC09C0001	ERR_VARAN_CLIENT_INV_PRM_WATCHDOG_TIME Invalid value for client watchdog time.
0xC09C0002	ERR_VARAN_CLIENT_INV_PRM_MEM_RW_LEN Invalid value for memory area length.
0xC09C0003	ERR_VARAN_CLIENT_INV_PRM_MEM_OFFSET Invalid value for memory area offset.
0xC09C0004	ERR_VARAN_CLIENT_INV_PRM_MEM_MISMATCH Parameter for memory Area1 and Area2 are in mismatch.
0xC09C0005	ERR_VARAN_CLIENT_INV_PRM_IDENTITY Parameter for identity is invalid.

Table 107: VARAN Client error codes

3.10.2 VARAN Client AP Task

Hexadecimal value	Definition and description
0xC09D0000	ERR_VARAN_CLIENT_AP_COMMAND_INVALID Invalid command received.

Table 108: VARAN Client AP Task error codes

4 Fieldbus protocols

4.1 AS-Interface

4.1.1 AS-Interface ECTRL Task

Hexadecimal value	Definition and description
0xC0320001	ERR_ASI_ECTRL_INVALID_REQ_DATA Invalid data in request detected.
0xC0320002	ERR_ASI_ECTRL_REQ_RUNNING The request cannot be executed because the previous request is still running.
0xC0320003	ERR_ASI_ECTRL_UNKNOWN_REQ Unknown or unsupported request received.
0xC0320004	ERR_ASI_ECTRL_APF_DETECTED The request cannot be executed because AS-Interface power failure is detected.
0xC0320005	ERR_ASI_ECTRL_NOT_IN_LAS The requested Slave is not in list of activated Slaves.
0xC0320006	ERR_ASI_ECTRL_NOT_IN_LDS The requested Slave is not in list of detected Slaves.
0xC0320007	ERR_ASI_ECTRL_INVALID_SLV_TYPE The request cannot be processed for specific type of Slave.
0xC0320008	ERR_ASI_ECTRL_SET_OFF_PHASE_FAIL An error occurred during the 'set offline mode' procedure, mode not changed.
0xC0320009	ERR_ASI_ECTRL_SET_OP_MODE_FAIL An error occurred during the 'set operation mode' procedure, mode not changed.
0xC032000A	ERR_ASI_ECTRL_SET_OP_MODE_SD0 The AS-Interface Master could not change to protected mode because a Slave with zero address is detected.
0xC032000B	ERR_ASI_ECTRL_SET_DATA_EXCH_FAIL An error occurred during the 'set data exchange' procedure, mode not changed.
0xC032000C	ERR_ASI_ECTRL_SET_AUTO_ADDR_FAIL An error occurred during the 'set auto address' procedure, mode not changed.
0xC032000D	ERR_ASI_ECTRL_WRITE_PARAM_FAIL Parameter value could not be stored or written to Slave.
0xC032000E	ERR_ASI_ECTRL_WRITE_ID1_CODE_SND Extended ID1-Code could not be set because Slave with zero address is not detected.
0xC032000F	ERR_ASI_ECTRL_WRITE_ID1_CODE_SE Error with setting Extended ID1-Code.
0xC0320010	ERR_ASI_ECTRL_WRITE_ID1_CODE_ET Extended ID1-Code stored temporarily.
0xC0320011	ERR_ASI_ECTRL_WRITE_ID1_CODE_RE Error with reading Extended ID1-Code.
0xC0320012	ERR_ASI_ECTRL_CHANGE_ADDR_EQUAL_ADDR Old and new address are identical.
0xC0320013	ERR_ASI_ECTRL_CHANGE_ADDR_SND Slave with old address not detected.
0xC0320014	ERR_ASI_ECTRL_CHANGE_ADDR_SD0 Slave with zero address not detected.

Hexadecimal value	Definition and description
0xC0320015	ERR_ASI_ECTRL_CHANGE_ADD_SD2 Slave with new address detected.
0xC0320016	ERR_ASI_ECTRL_CHANGE_ADDR_DE Error with deletion of old address.
0xC0320017	ERR_ASI_ECTRL_CHANGE_ADDR_RE Error with reading the Extended ID1-Code of Slave with old address.
0xC0320018	ERR_ASI_ECTRL_CHANGE_ADDR_SE Error with setting of new address.
0xC0320019	ERR_ASI_ECTRL_CHANGE_ADDR_AT New address stored temporarily.
0xC032001A	ERR_ASI_ECTRL_EXECUTE_CMD_FAIL Execution of single command failed.
0xC032001B	ERR_ASI_ECTRL_GET_STATE_FAIL Failed to get ECTRL-Task state.
0xC032001C	ERR_ASI_ECTRL_GET_ACT_CONFIG_FAIL Failed to get actual configuration of AS-Interface network.
0xC032001D	ERR_ASI_ECTRL_GET_PERM_CONFIG_FAIL Failed to get permanent configuration of AS-Interface network.
0xC032001E	ERR_ASI_ECTRL_STORE_ACT_PARAM_FAIL Actual parameter of AS-Interface network could not be stored.
0xC032001F	ERR_ASI_ECTRL_SET_PERM_CONFIG_FAIL Set permanent configuration of AS-Interface network failed.
0xC0320020	ERR_ASI_ECTRL_SET_PERM_CONFIG_ALREADY_IN_LPS Slave not added to permanent configuration of AS-Interface network, because Slave is already projected.
0xC0320021	ERR_ASI_ECTRL_SET_PERM_CONFIG_NOT_IN_LPS Slave is not changed or deleted from permanent configuration of AS-Interface network, because Slave is not projected.
0xC0320022	ERR_ASI_ECTRL_STORE_ACT_CONFIG_FAIL Actual configuration of AS-Interface network could not be stored.
0xC0320023	ERR_ASI_ECTRL_READ_ID_STR_FAIL Identification string of requested Slave could not be read.
0xC0320024	ERR_ASI_ECTRL_READ_PARAM_STR_FAIL Parameter string string of requested Slave could not be read.
0xC0320025	ERR_ASI_ECTRL_READ_DIAG_STR_FAIL Diagnostic string string of requested Slave could not be read.
0xC0320026	ERR_ASI_ECTRL_WRITE_PARAM_STR_FAIL Parameter string could not be written to requested Slave.
0xC0320027	ERR_ASI_ECTRL_READ_IN_DATA_FAIL Read input data failed.
0xC0320028	ERR_ASI_ECTRL_WRITE_OUT_DATA_FAIL Write output data failed.
0xC0320029	ERR_ASI_ECTRL_READ_ANLG_IN_DATA_FAIL Read analog input data failed.
0xC032002A	ERR_ASI_ECTRL_WRITE_ANLG_OUT_DATA_FAIL Write analog output data failed.
0xC032002B	ERR_ASI_ECTRL_SET_PERM_PARAM_FAIL Set permanent parameter of AS-Interface network failed.

Hexadecimal value	Definition and description
0xC032002C	ERR_ASI_ECTRL_INVALID_LEN Invalid length in packet received.
0xC032002D	ERR_ASI_ECTRL_WRITE_ID1_CODE_FAIL Write Extended ID1-Code failed.
0xC032002E	ERR_ASI_ECTRL_CHANGE_ADDR_FAIL Change slave address failed.
0xC032002F	ERR_ASI_ECTRL_NOT_IN_NORMAL_OP The request cannot be executed because the AS-Interface Master is not in normal operation.
0xC0320030	ERR_ASI_ECTRL_NOT_ALLOWED_IN_PROTECTED_MODE The request is not allowed in protected mode.

Table 109: AS-Interface ECTRL task

4.1.2 AS-Interface Master

Hexadecimal value	Definition and description
0xC07A0001	ERR_ASI_MASTER_PARAM_CYCLETIME Invalid value for parameter cycle time.
0xC07A0002	ERR_ASI_MASTER_PARAM_XC_INSTANCE Invalid value for parameter xC instance.
0xC07A0003	ERR_ASI_MASTER_PARAM_QUEUE_ELEMENT Invalid value for parameter queue element.
0xC07A0004	ERR_ASI_MASTER_PARAM_POOL_ELEMENT Invalid value for parameter pool element.
0xC07A0005	ERR_ASI_MASTER_PARAM_MIN_CYCLE_TIME Invalid value for parameter min cycle timer.
0xC07A0006	ERR_ASI_MASTER_PARAM_OPERATION_MODE Invalid value for parameter operation mode.
0xC07A0007	ERR_ASI_MASTER_PARAM_DATA_EXCHANGE Invalid value for parameter data exchange.
0xC07A0008	ERR_ASI_MASTER_PARAM_AUTO_ADDRESS_ENABLE Invalid value for parameter auto address enable.
0xC07A0009	ERR_ASI_MASTER_PARAM_MANAGEMENT_PHASE Invalid value for parameter management phase.
0xC07A000A	ERR_ASI_MASTER_PARAM_PROCESS_DATA_MODE Invalid value for parameter process data mode.
0xC07A000B	ERR_ASI_MASTER_PARAM_DATA_FORMAT Invalid value for parameter process data format.
0xC07A000C	ERR_ASI_MASTER_INIT_BUFFER Failed to initialize data buffer.
0xC07A000D	ERR_ASI_MASTER_INITIALIZING Master is initializing.
0xC07A000E	ERR_ASI_MASTER_DATA_COUNT Invalid data count.
0xC07A000F	ERR_ASI_MASTER_DATA_OFFSET Invalid data offset.
0xC07A0010	ERR_ASI_MASTER_NOT_ALLOWED_IN_PROTECTED_MODE Request is not allowed in protected mode.
0xC07A0011	ERR_ASI_MASTER_AUTO_CLEAR Master is in auto-clear state.
0xC07A0012	ERR_ASI_MASTER_CONTROL_ERROR Control error detected.
0xC07A0013	ERR_ASI_MASTER_SLAVE_MISSING Slave is missing.
0xC07A0014	ERR_ASI_MASTER_POWER_FAILURE Power failure detected.
0xC07A0015	ERR_ASI_MASTER_OFFLINE_READY Master is in offline ready state.
0xC07A0016	ERR_ASI_MASTER_NOT_IN_NORMAL_OPERATION Master is not in normal operation.
0xC07A0017	ERR_ASI_MASTER_INVALID_SLAVE_ADDRESS Invalid slave address.

Hexadecimal value	Definition and description
0xC07A0018	ERR_ASI_MASTER_SLAVE_ACTIVATED Slave is activated.
0xC07A0019	ERR_ASI_MASTER_SLAVE_NOT_ACTIVATED Slave is not activated.
0xC07A001A	ERR_ASI_MASTER_SLAVE_DETECTED Slave is detected.
0xC07A001B	ERR_ASI_MASTER_SLAVE_NOT_DETECTED Slave is not detected.
0xC07A001C	ERR_ASI_MASTER_TIMEOUT Timeout detected.
0xC07A001D	ERR_ASI_MASTER_SLAVE_0_DETECTED Slave at address 0 detected.
0xC07A001E	ERR_ASI_MASTER_NEW_SLAVE_DETECTED Slave at new address detected.
0xC07A001F	ERR_ASI_MASTER_DELETE_ADDRESS Error with deletion of address.
0xC07A0020	ERR_ASI_MASTER_READ_EXT_ID1 Error with reading extended ID code 1.
0xC07A0021	ERR_ASI_MASTER_SET_EXT_ID1 Error with setting extended ID code 1.
0xC07A0022	ERR_ASI_MASTER_ADDRESS_SET_TEMPORARY New address stored temporarily.
0xC07A0023	ERR_ASI_MASTER_SET_ADDRESS Error with setting new address.
0xC07A0024	ERR_ASI_MASTER_EXT_ID1_SET_TEMPORARY Extended ID code 1 stored temporarily.
0xC07A0025	ERR_ASI_MASTER_INVALID_SLAVE_PROFILE Invalid slave profile.
0xC07A0026	ERR_ASI_MASTER_SLAVE_CONFIG Invalid slave configuration.
0xC07A0027	ERR_ASI_MASTER_SLAVE_ALREADY_CONFIGURED Slave is already configured.
0xC07A0028	ERR_ASI_MASTER_STRING_TRANSFER_DATA_OVERFLOW Data overflow during string transfer detected.
0xC07A0029	ERR_ASI_MASTER_PARAM_AUTOCLEAR_WITH_AUTOADDRESS Invalid value for parameter auto clear in combination with value for parameter auto address.
0xC07A002A	ERR_ASI_MASTER_PARAM_AUTOCLEAR_WITH_CONFIG_MODE Invalid value for parameter auto clear in combination with value for parameter operation mode.
0xC07A002B	ERR_ASI_MASTER_COMMAND_NOT_ALLOWED_WITH_AUTOCLEAR Command is not allowed if auto clear is active.
0xC07A002C	ERR_ASI_MASTER_NOT_ALLOWED_IN_TRANSPARENT_MODE Request is not allowed in transparent mode.
0xC07A002D	ERR_ASI_MASTER_ONLY_ALLOWED_IN_TRANSPARENT_MODE Request is allowed in transparent mode only.

Table 110: AS-Interface Master

4.1.3 AS-Interface Master Application Task

Hexadecimal value	Definition and description
0xC07B0001	ERR_ASI_APM_PARAM_CYCLETIME Invalid value for parameter cycle time.
0xC07B0002	ERR_ASI_APM_PARAM_CHN_INSTANCE Invalid value for parameter channel instance.
0xC07B0003	ERR_ASI_APM_PARAM_QUEUE_ELEMENT Invalid value for parameter queue element.
0xC07B0004	ERR_ASI_APM_PARAM_POOL_ELEMENT Invalid value for parameter pool element.
0xC07B0005	ERR_ASI_APM_PARAM_AUTO_CLEAR Invalid value for parameter auto-clear.
0xC07B0006	ERR_ASI_APM_SLAVE_ALREADY_CONFIGURED Slave is already configured.
0xC07B0007	ERR_ASI_APM_INVALID_DBM_VERSION Invalid version of database.
0xC07B0008	ERR_ASI_APM_STORE_CONFIGURATION_NOT_POSSIBLE Permanent storage of configuration is not possible.
0xC07B0009	ERR_ASI_APM_INVALID_SLAVE_PARAMETER Invalid slave parameter.
0xC07B000A	ERR_ASI_APM_ACTIVATE_WATCHDOG Failed to activate watchdog supervision.
0xC07B000B	ERR_ASI_APM_NOT_ALLOWED_IN_PROTECTED_MODE Request is not allowed in protected mode.
0xC07B000C	ERR_ASI_APM_IO_STATUS_OFFSET Invalid parameter for IO status offset.

Table 111: AS-Interface Master Application Task

4.2 CANopen and CAN

4.2.1 CAN DL Task

Hexadecimal value	Definition and description
0xC03F0001	ERR_CAN_DL_COMMAND_INVALID Invalid command.
0xC03F0002	ERR_CAN_DL_CMD_LENGTH_MISMATCH The length code of the command is invalid.
0xC03F0003	ERR_CAN_DL_UNKNOWN_PARAMETER_TYPE The parameter type of the command "Set Parameter" is invalid.
0xC03F0004	ERR_CAN_DL_SET_MODE_FAILED Within the command "Set Parameter" the function set "CAN Mode" failed.
0xC03F0005	ERR_CAN_DL_SET_BAUDRATE_FAILED Within the command "Set Parameter" the function set "Baud rate" failed.
0xC03F0006	ERR_CAN_DL_SET_TXABORT_TIME_FAILED Within the command "Set Parameter" the function set "Transmission Abort Timer" failed.
0xC03F0007	ERR_CAN_DL_SET_EVENTS_REQUESTED_FAILED Within the command "Set Parameter" the function set "Requested Events" failed.
0xC03F0008	ERR_CAN_DL_SET_FILTER_FAILED Within the command "Set Parameter" or "Set Filter the function set "CAN Filter" failed.
0xC03F0009	ERR_CAN_DL_SET_ENABLE_DISABLE_RXID_FAILED Within the command Enable or Disable of receive identifiers an error occurred.
0xC03F000A	ERR_CAN_DL_TX_FRAME_FAILED At least one CAN frame could not be sent. Normally because the sent process was aborted by the transmission abort timer.
0xC03F000B	ERR_CAN_DL_TX_BUFFER_OVERRUN The send request of CAN frames was rejected because the internal buffer for send requests is full.
0xC03F000C	ERR_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.
0xC03F000F	TRL_E_CAN_DL_UNKNOWN_APPLICATION The application trying to access is not registered at the CAN_DL task.
0xC03F0010	ERR_CAN_DL_AP_ALREADY_REGISTERED The application is already registered.
0xC03F0011	ERR_CAN_DL_CONF_LOCK_FAIL The configuration lock failed.
0xC03F0012	ERR_CAN_DL_CONF_LOCKED The configuration is locked.

Table 112: CAN DL Task

4.2.2 ENPDDL Task

Hexadecimal value	Definition and description
0xC0400001	ERR_DDL_ENPDDL_COMMAND_INVALID Invalid command received.
0xC0400020	ERR_DDL_ENPDDL_DDL_ADDRESS_MISMATCH_GAP A DDL address error was detected (ADDRESS_MISMATCH or ADDRESS_GAP).
0xC0400021	ERR_DDL_ENPDDL_DDL_WRONG_DATALENGTH A DDL data length error was detected (WRONG_DATALENGTH). The given output data length from Ethernet master is unequal to the detected output data length of all DDL slaves.
0xC0400022	ERR_DDL_ENPDDL_DDL_PARAMETER_REPEAT An error has occurred by sending DDL parameter. The sending of parameters is repeated.
0xC0400023	ERR_DDL_ENPDDL_DDL_CAN_DL_SEND An error has occurred by sending CAN_DL frame(s).
0xC0400024	ERR_DDL_ENPDDL_DDL_TYPE The received DDL type is out of the valid range (4 ... 8).
0xC0400025	ERR_DDL_ENPDDL_DDL_ADR The received DDL address is out of the valid range (> 14).
0xC0400026	ERR_DDL_ENPDDL_DDL_ADR_AUTO The received DDL address is unequal to zero by automatic addressing.
0xC0400027	ERR_DDL_ENPDDL_DDL_ADR_MANUAL The received DDL address is zero by manual addressing.
0xC0400028	ERR_DDL_ENPDDL_DDL_MASTER_INIT_FT The received DDL frame type is unequal to "Parameter, Input data" while DDL initialization.
0xC0400029	ERR_DDL_ENPDDL_DDL_MASTER_INIT_FRAME_LEN The received DDL frame length of config telegram is unequal to 8 (DDL initialization).
0xC040002A	ERR_DDL_ENPDDL_DDL_MASTER_INIT_ADR_INCONSISTENT The received DDL address in config telegram is unequal to the DDL address in the CAN-ID (DDL initialization).
0xC040002B	ERR_DDL_ENPDDL_DDL_MASTER_INIT_TYPE_INCONSISTENT The received DDL type in config telegram is unequal to the DDL type in the CAN-ID (DDL initialization).
0xC040002C	ERR_DDL_ENPDDL_DDL_MASTER_INIT_DATA_LENGTH Min. one of the received DDL data lengths in config telegram are to big (> 16) (DDL initialization).
0xC040002D	ERR_DDL_ENPDDL_DDL_MASTER_INIT_RESERVEDS Min. one of the received reserved values in config telegram are unequal to zero (DDL initialization).
0xC0400200	ERR_DDL_ENPDDL_MID_CDG_CAN_DL_CNF The CAN_DL task send confirmation has not been received yet. The DDL state machine (DSM) is still waiting for the send confirmation using the corresponding timeout. ulUserParam is the current DSM state.
0xC0400201	ERR_DDL_ENPDDL_MID_CDG_UNKNOWN_PACKET The DDL state machine (DSM) has received an unknown and unexpected packet respectively. The packet will be discarded. ulUserParam is the packet command ulCmd.
0xC0400300	ERR_DDL_ENPDDL_DDL_UNKNOWN_STATE Unknown DSM (DDL State machine) state. ulUserParam is the unknown DSM state.
0xC0400301	ERR_DDL_ENPDDL_ECAT_READ_SYNC_MAN_NULL_PTR The function EcatHal_ReadSyncMan() has delivered a NULL pointer. ulUserParam is the sync manager handle.
0xC0400302	ERR_DDL_ENPDDL_ECAT_WRITE_SYNC_MAN_NULL_PTR The function EcatHal_WriteSyncMan() has delivered a NULL pointer. ulUserParam is the sync manager handle.

Hexadecimal value	Definition and description
0xC0400303	ERR_DDL_ENPDDL_CAN_DL_CMD_DATA_IND_LEN The CAN_DL_CMD_DATA_IND packet length ulLen is zero or not a multiple of the CAN frame size. ulUserParam is the length ulLen.
0xC0400400	ERR_DDL_ENPDDL_MID_CDG_PACKET_NULL_PTR The DDL state machine (DSM) has received a NULL pointer packet. The system will be stopped. ulUserParam is the current DSM state.
0xC0400401	ERR_DDL_ENPDDL_MID_CDG_TLR_POOL_PACKET_GET A TLR_POOL_PACKET_GET() error has occurred. The system will be stopped. ulUserParam is the error code.
0xC0400402	ERR_DDL_ENPDDL_MID_CDG_TLR_QUE_SENDBUFFER_FIFO A TLR_QUE_SENDBUFFER_FIFO() error has occurred. The system will be stopped. ulUserParam is the error code.

Table 113: ENPDDL Task packet status codes

4.2.3 DDL Task

Hexadecimal value	Definition and description
0xC0410001	ERR_DDL_DDL_COMMAND_INVALID Invalid command received.

Table 114: DDL Task packet status codes

4.2.4 CANopen Master

Hexadecimal value	Definition and description
0xC0420001	ERR_CANOPEN_MASTER_COMMAND_INVALID Invalid command received.
0xC0420002	ERR_CANOPEN_MASTER_PACKET_LENGTH Invalid length in packet.
0xC0420003	ERR_CANOPEN_MASTER_DATA_COUNT Invalid data count.
0xC0420004	ERR_CANOPEN_MASTER_DATA_OFFSET Invalid data offset.
0xC0420005	ERR_CANOPEN_MASTER_DATA_COUNT_WITH_OFFSET Invalid data count in combination with offset.
0xC0420006	ERR_CANOPEN_MASTER_MODE Invalid mode in command.
0xC0420007	ERR_CANOPEN_MASTER_STATE Command is not allowed in current state.
0xC0420008	ERR_CANOPEN_MASTER_NO_VALID_BUS_PARAM No valid bus configuration parameterized.
0xC0420009	ERR_CANOPEN_MASTER_REQUEST_RUNNING A request is already running.
0xC042000A	ERR_CANOPEN_MASTER_BUS_RUNNING Command is not allowed because CANopen is running.
0xC042000B	ERR_CANOPEN_MASTER_BUS_PARAM_ALREADY_SET Bus parameters are already configured.
0xC042000C	ERR_CANOPEN_MASTER_LOCAL_NODE_ID Invalid Node ID for CANopen Master.
0xC042000D	ERR_CANOPEN_MASTER_BAUDRATE Invalid Baudrate.
0xC042000E	ERR_CANOPEN_MASTER_29BIT_SELECTOR Invalid parameter for 29 bit selector.
0xC042000F	ERR_CANOPEN_MASTER_SYNC_TIMER_VALUE Invalid parameter for SYNC timer.
0xC0420010	ERR_CANOPEN_MASTER_COB_ID_SYNC Invalid parameter for COB-ID SYNC.
0xC0420011	ERR_CANOPEN_MASTER_PROD_HEARTBEAT_TIME Invalid parameter for Producer Heartbeat time.
0xC0420012	ERR_CANOPEN_MASTER_PACKET_SEQUENCE Invalid packet sequence detected.
0xC0420013	ERR_CANOPEN_MASTER_NODE_PARAM_SET_SIZE Invalid size of Node parameter set.
0xC0420014	ERR_CANOPEN_MASTER_NODE_PARAM_HEADER_SIZE Invalid size of Node parameter header.
0xC0420015	ERR_CANOPEN_MASTER_NODE_ALREADY_CONFIGURED Node is already configured.
0xC0420016	ERR_CANOPEN_MASTER_SLAVE_NODE_ID Invalid Node ID for Slave.
0xC0420017	ERR_CANOPEN_MASTER_NODE_ID_EQUAL Node ID of Slave is equal to Master Node ID.

Hexadecimal value	Definition and description
0xC0420018	ERR_CANOPEN_MASTER_PARAMETER_SET_LENGTH Length of parameter set is different from length in parameter header.
0xC0420019	ERR_CANOPEN_MASTER_SDO_PARAMETER_SET_LENGTH Invalid size of SDO parameter set.
0xC042001A	ERR_CANOPEN_MASTER_PDO_PARAMETER_SET_LENGTH Invalid size of PDO parameter set.
0xC042001B	ERR_CANOPEN_MASTER_ADDR_TABLE_SET_LENGTH Invalid size of address table.
0xC042001C	ERR_CANOPEN_MASTER_ADDR_TABLE_LENGTH_INCONSISTENT Address table size is inconsistent.
0xC042001E	ERR_CANOPEN_MASTER_TPDO_CNT Invalid number of transmit PDOs.
0xC042001F	ERR_CANOPEN_MASTER_RPDO_CNT Invalid number of receive PDOs.
0xC0420020	ERR_CANOPEN_MASTER_COB_ID_EMCY Invalid value for COB-ID Emergency.
0xC0420021	ERR_CANOPEN_MASTER_COB_ID_GUARD Invalid value for COB-ID Guard.
0xC0420022	ERR_CANOPEN_MEMORY_ALLOCATION No memory for parameter set.
0xC0420023	ERR_CANOPEN_SDO_DATA_CNT Invalid value for SDO data count.
0xC0420024	ERR_CANOPEN_PDO_DATA_CNT Invalid value for PDO data count.
0xC0420025	ERR_CANOPEN_ADDR_TAB_DATA_CNT Invalid value for address table data count.
0xC0420026	ERR_CANOPEN_ADDR_TAB_PDO_CNT Invalid value for address table PDO count.
0xC0420027	ERR_CANOPEN_MASTER_NODE_SDO_TIMEOUT Timeout during SDO transfer.
0xC0420028	ERR_CANOPEN_MASTER_NODE_SDO_ERROR Error during SDO transfer.
0xC0420029	ERR_CANOPEN_MASTER_NO_PDO_AVAILABLE No further PDO available.
0xC042002A	ERR_CANOPEN_MASTER_AUTO_CLEAR_ACTIVE Master is in auto clear state.
0xC042002B	ERR_CANOPEN_MASTER_WATCHDOG_FAIL Watchdog failure detected.
0xC042002C	ERR_CANOPEN_MASTER_INVALID_INDEX Invalid index for request.
0xC042002D	ERR_CANOPEN_MASTER_NODE_STATE Request not possible in current Node state.
0xC042002E	ERR_CANOPEN_MASTER_NODE_NOT_CONFIGURED Node is not configured.
0xC042002F	ERR_CANOPEN_MASTER_SDO_REQUEST_FAILED SDO request failed.
0x40420030	INFO_CANOPEN_MASTER_ALREADY_IN_STATE Master is already in requested state.

Hexadecimal value	Definition and description
0xC0420031	ERR_CANOPEN_MASTER_COB_ID_PDO Invalid value for PDO COB-ID.
0xC0420032	ERR_CANOPEN_MASTER_SEND_EMCY Send emergency-telegram failed.
0xC0420033	ERR_CANOPEN_MASTER_INIT_SDO_REQUEST Failed to initialize SDO request.
0xC0420034	ERR_CANOPEN_MASTER_SET_NMT_STATE Set NMT state failed.
0xC0420035	ERR_CANOPEN_MASTER_ERROR_PASSIVE CANopen is in error-passive state.
0xC0420036	ERR_CANOPEN_MASTER_BUS_OFF CANopen is in bus-off state.
0x40420037	INFO_CANOPEN_MASTER_NODE_DEACTIVATED Node is deactivated in configuration.
0xC0420038	ERR_CANOPEN_MASTER_DL_REQ_FAILED CAN-DL request failed.
0xC0420039	ERR_CANOPEN_MASTER_PUT_OBJECT_DATA Failed to write object data.
0xC042003A	ERR_CANOPEN_MASTER_SET_OBJECT_DATA_VALID Failed to set object data valid.
0xC042003B	ERR_CANOPEN_MASTER_INIT_LIB Failed to initialize CANopen library.
0xC042003C	ERR_CANOPEN_MASTER_SET_COB_ID_FAILED COB-ID could not be set.
0xC042003D	ERR_CANOPEN_MASTER_ADD_REMOTE_NODE_REQUEST Failed to add remote Node.
0xC042003E	ERR_CANOPEN_MASTER_SET_HEARTBEAT_TIME Heartbeat time could not be set.
0xC042003F	ERR_CANOPEN_MASTER_ADD_GUARDING_SLAVE Node could not be added to Node guarding list.
0xC0420040	ERR_CANOPEN_MASTER_SET_GUARDING_TIME Node guard time could not be set.
0xC0420041	ERR_CANOPEN_MASTER_START_NODE_GUARD Node guarding could not be started.
0xC0420042	ERR_CANOPEN_MASTER_RESET_NODE Reset Node failed.
0xC0420043	ERR_CANOPEN_MASTER_RESET_COMMUNICATION Failed to reset communication of Node.
0xC0420044	ERR_CANOPEN_MASTER_SET_NODE_PREOPERATIONAL Failed to set Node to pre-operational state.
0xC0420045	ERR_CANOPEN_MASTER_STOP_NODE Failed to set Node to stop state.
0xC0420046	ERR_CANOPEN_MASTER_START_NODE Failed to set Node to operational state.
0xC0420047	ERR_CANOPEN_MASTER_SET_EMCY_COB_ID Failed to set Emergency COB-ID.
0xC0420048	ERR_CANOPEN_MASTER_START_SYNC Failed to start SYNC-telegram.

Hexadecimal value	Definition and description
0xC0420049	ERR_CANOPEN_MASTER_STOP_SYNC Failed to stop SYNC-telegram.
0xC042004A	ERR_CANOPEN_MASTER_NODE_UNEXPECTED_STATE Node is not in expected state.
0xC042004B	ERR_CANOPEN_MASTER_NODE_LOST_CONNECTION Connection to Node lost.
0xC042004C	ERR_CANOPEN_MASTER_NODE_GUARDING_ERROR Node guarding error.
0xC042004D	ERR_CANOPEN_MASTER_NODE_HEARTBEAT_ERROR Heartbeat error.
0x4042004E	INFO_CANOPEN_MASTER_NODE_HEARTBEAT_STARTED Heartbeat supervision of Node started.
0xC042004F	ERR_CANOPEN_MASTER_NODE_UNEXPECTED_BOOTUP Unexpected Bootup message from Node received.
0xC0420050	ERR_CANOPEN_MASTER_WRITE_PDO_REQ Failed to transmit PDO.
0xC0420051	ERR_CANOPEN_MASTER_READ_PDO_REQ Failed to request PDO.
0xC0420052	ERR_CANOPEN_MASTER_INIT_BUFFER Initialization of buffer failed.
0x40420053	INFO_CANOPEN_MASTER_NODE_STATE_NOT_HANDLED State of Node not handled.
0xC0420054	ERR_CANOPEN_MASTER_NODE_DEVICE_TYPE Node Device Type unequal to configured Device Type.
0x40420055	INFO_CANOPEN_MASTER_NODE_EMERGENCY_RECEIVED Emergency message received from Node.
0x40420056	INFO_CANOPEN_MASTER_INITIALIZE Master is initializing.
0x40420057	INFO_CANOPEN_MASTER_NODE_BOOTUP Bootup message from Node received.
0xC0420058	ERR_CANOPEN_MASTER_RESERVED_1 Reserved.
0xC0420059	ERR_CANOPEN_MASTER_RESERVED_2 Reserved.
0xC042005A	ERR_CANOPEN_MASTER_RESERVED_3 Reserved.
0xC042005B	ERR_CANOPEN_MASTER_RESERVED_4 Reserved.
0xC042005C	ERR_CANOPEN_MASTER_RESERVED_5 Reserved.

Table 115: CANopen Master

4.2.5 CANopen Master Application Task

Hexadecimal value	Definition and description
0xC0490001	ERR_CANOPEN_APM_COMMAND_INVALID Invalid command received.
0x40490002	INFO_CANOPEN_APM_CONFIG_LOCK Configuration is locked.
0xC0490003	ERR_CANOPEN_APM_PACKET_LENGTH Invalid packet length.
0xC0490004	ERR_CANOPEN_APM_WATCHDOG_PARAMETER Invalid parameter for watchdog.
0x40490005	INFO_CANOPEN_APM_OPEN_DBM_FILE Database file not found.
0xC0490006	ERR_CANOPEN_APM_DATASET Failed to open configuration dataset.
0xC0490007	ERR_CANOPEN_APM_TABLE_GLOBAL Failed to open GLOBAL configuration dataset.
0xC0490008	ERR_CANOPEN_APM_TABLE_BUS_CAN Failed to open BUS_CAN configuration dataset.
0xC0490009	ERR_CANOPEN_APM_TABLE_BUS_CAN_EXT Failed to open BUS_CAN_EXT configuration dataset.
0xC049000A	ERR_CANOPEN_APM_TABLE_NODES Failed to open NODES configuration dataset.
0xC049000B	ERR_CANOPEN_APM_WATCHDOG_ACTIVATE Failed to activate watchdog supervision.
0xC049000C	ERR_CANOPEN_APM_SIZE_TABLE_BUS_CAN Invalid size of BUS_CAN configuration dataset.
0xC049000D	ERR_CANOPEN_APM_SIZE_TABLE_BUS_CAN_EXT Invalid size of BUS_CAN_EXT configuration dataset.
0xC049000E	ERR_CANOPEN_APM_NODE_ALREADY_CONFIGURED Node already configured.
0xC049000F	ERR_CANOPEN_APM_INVALID_NODE_ID Invalid Node ID.
0xC0490010	ERR_CANOPEN_APM_DATABASE_FOUND Configuration database found.
0xC0490011	ERR_CANOPEN_APM_REQUEST_RUNNING Request already running.

Table 116: CANopen Master Application Task

4.2.6 CANopen Slave

Hexadecimal value	Definition and description
0xC0430001	ERR_CANOPEN_SLAVE_COMMAND_INVALID Invalid command received.
0xC0430002	ERR_CANOPEN_SLAVE_PACKET_LENGTH Invalid length in packet.
0xC0430003	ERR_CANOPEN_SLAVE_DATA_COUNT Invalid data count.
0xC0430004	ERR_CANOPEN_SLAVE_DATA_OFFSET Invalid data offset.
0xC0430005	ERR_CANOPEN_SLAVE_DATA_COUNT_WITH_OFFSET Invalid data count in combination with offset.
0xC0430006	ERR_CANOPEN_SLAVE_MODE Invalid mode in command.
0xC0430007	ERR_CANOPEN_SLAVE_STATE Command is not allowed in current state.
0xC0430008	ERR_CANOPEN_SLAVE_REQUEST_RUNNING A request is already running.
0xC0430009	ERR_CANOPEN_SLAVE_BUS_RUNNING Command is not allowed because CANopen is running.
0xC043000A	ERR_CANOPEN_SLAVE_BUS_PARAM_ALREADY_SET Bus parameters are already configured.
0xC043000B	ERR_CANOPEN_SLAVE_LOCAL_NODE_ID Invalid Node ID for CANopen Slave.
0xC043000C	ERR_CANOPEN_SLAVE_BAUDRATE Invalid Baudrate.
0xC043000D	ERR_CANOPEN_SLAVE_29BIT_SELECTOR Invalid parameter for 29-bit selector.
0xC043000E	ERR_CANOPEN_SLAVE_WATCHDOG_FAIL Watchdog failure detected.
0x4043000F	INFO_CANOPEN_SLAVE_ALREADY_IN_STATE Slave is already in requested state.
0xC0430010	ERR_CANOPEN_SLAVE_SEND_EMCY Send emergency-telegram failed.
0xC0430011	ERR_CANOPEN_SLAVE_INIT_LIB Failed to initialize CANopen library.
0xC0430012	ERR_CANOPEN_SLAVE_ERROR_PASSIVE CANopen is in error-passive state.
0xC0430013	ERR_CANOPEN_SLAVE_BUS_OFF CANopen is in bus-off state.
0xC0430014	ERR_CANOPEN_SLAVE_PUT_OBJECT_DATA Failed to write object data.
0xC0430015	ERR_CANOPEN_SLAVE_SET_OBJECT_DATA_VALID Language = English Failed to set object data valid.
0xC0430016	ERR_CANOPEN_SLAVE_GET_OBJECT_DATA Failed to get object data.
0xC0430017	ERR_CANOPEN_SLAVE_WRITE_PDO_REQ Failed to transmit PDO.

Hexadecimal value	Definition and description
0xC0430018	ERR_CANOPEN_SLAVE_GUARD_ERROR Guard error detected.
0xC0430019	ERR_CANOPEN_SLAVE_INIT_BUFFER Initialization of buffer failed.
0xC043001A	ERR_CANOPEN_SLAVE_DL_REQ_FAILED CAN-DL request failed.
0xC043001B	ERR_CANOPEN_SLAVE_INVALID_INDEX Invalid object index.
0xC043001C	ERR_CANOPEN_SLAVE_INVALID_SUB_INDEX Invalid object index.
0xC043001D	ERR_CANOPEN_SLAVE_INVALID_MAP_LENGTH Invalid mapping length.
0xC043001E	ERR_CANOPEN_SLAVE_INVALID_PDO_MODE Invalid transmission mode for PDO.
0xC043001F	ERR_CANOPEN_SLAVE_INVALID_PDO_LENGTH Invalid length for PDO.
0xC0430020	ERR_CANOPEN_SLAVE_NO_WRITE_PERM No write permission for object.
0xC0430021	ERR_CANOPEN_SLAVE_NO_READ_PERM No read permission for object.
0xC0430022	ERR_CANOPEN_SLAVE_VALUE_TOO_LOW Value for object too low.
0xC0430023	ERR_CANOPEN_SLAVE_VALUE_TOO_HIGH Value for object too high.
0xC0430024	ERR_CANOPEN_SLAVE_INVALID_PARAMETER Invalid parameter for object.
0xC0430025	ERR_CANOPEN_SLAVE_INVALID_PDO_STATE Invalid PDO state.
0x40430026	INFO_CANOPEN_SLAVE_INITIALIZE Slave is initializing.
0xC0430027	ERR_CANOPEN_SLAVE_OBJECT_SIZE Invalid size for object.
0xC0430028	ERR_CANOPEN_SLAVE_ID_IN_USE Identifier already in use.
0xC0430029	ERR_CANOPEN_SLAVE_INHIBIT Service is inhibited.
0xC043002A	ERR_CANOPEN_SLAVE_TX_OVERRUN Transmit overrun.
0xC043002B	ERR_CANOPEN_SLAVE_RX_OVERRUN Receive overrun.
0xC043002C	ERR_CANOPEN_SLAVE_ERROR_WARNING CANopen is in error-warning state.
0xC043002D	ERR_CANOPEN_SLAVE_RECV_PDO_REQ Request receive PDO failed.
0xC043002E	ERR_CANOPEN_SLAVE_NUM_OF_RX_PDO_PARAMETER Invalid parameter for number of receive PDO.
0xC043002F	ERR_CANOPEN_SLAVE_NUM_OF_TX_PDO_PARAMETER Invalid parameter for number of send PDO.

Hexadecimal value	Definition and description
0xC0430030	ERR_CANOPEN_SLAVE_HB_CONSUMER_PARAMETER Invalid parameter for number of heartbeat consumer.
0xC0430031	ERR_CANOPEN_SLAVE_SEND_TIME_STAMP Failed to send timestamp message.

Table 117: CANopen Slave

4.2.7 CANopen Slave Application Task

Hexadecimal value	Definition and description
0xC04A0001	ERR_CANOPEN_APS_COMMAND_INVALID Invalid command received.
0xC04A0002	ERR_CANOPEN_APS_DATABASE_FOUND Configuration database found.
0xC04A0003	ERR_CANOPEN_APS_NODE_ID_PARAMETER Invalid parameter for node id.
0xC04A0004	ERR_CANOPEN_APS_BAUDRATE_PARAMETER Invalid parameter for baud rate.
0xC04A0005	ERR_CANOPEN_APS_STATE Request not possible in current state.
0xC04A0006	ERR_CANOPEN_APS_REQUEST_RUNNING Request already running.
0x404A0007	INFO_CANOPEN_APS_OPEN_DBM_FILE Failed to open configuration database.
0xC04A0008	ERR_CANOPEN_APS_DATASET Failed to open configuration dataset.
0xC04A0009	ERR_CANOPEN_APS_TABLE_GLOBAL Failed to open 'GLOBAL' configuration dataset.
0xC04A000A	ERR_CANOPEN_APS_TABLE_BUS_CAN Failed to open 'BUS_CAN' configuration dataset.
0xC04A000B	ERR_CANOPEN_APS_SIZE_TABLE_BUS_CAN Invalid size of 'BUS_CAN' configuration dataset.
0x404A000C	INFO_CANOPEN_APS_CONFIG_LOCK Configuration is locked.
0xC04A000D	ERR_CANOPEN_APS_PACKET_LENGTH Invalid packet length.
0xC04A000E	ERR_CANOPEN_APS_WATCHDOG_PARAMETER Invalid parameter for watchdog supervision.
0xC04A000F	ERR_CANOPEN_APS_WATCHDOG_ACTIVATE Failed to activate watchdog supervision.
0xC04A0010	ERR_CANOPEN_APS_PARAM_QUEUE_ELEMENT Invalid parameter for number of queue elements.
0xC04A0011	ERR_CANOPEN_APS_PARAM_POOL_ELEMENT Invalid parameter for number of pool elements.
0xC04A0012	ERR_CANOPEN_APS_PARAM_CYCLETIME Invalid parameter for cycle time.
0xC04A0013	ERR_CANOPEN_APS_PARAM_CHN_INSTANCE Invalid parameter for channel instance.
0xC04A0014	ERR_CANOPEN_APS_NUM_OF_RX_PDO_PARAMETER Invalid parameter for number of receive PDO.
0xC04A0015	ERR_CANOPEN_APS_NUM_OF_TX_PDO_PARAMETER Invalid parameter for number of send PDO.
0xC04A0016	ERR_CANOPEN_APS_SIZE_TABLE_VERSION Invalid size of table 'Version'.
0xC04A0017	ERR_CANOPEN_APS_INVALID_DBM_VERSION Invalid version of table 'Version'.

Hexadecimal value	Definition and description
0xC04A0018	ERR_CANOPEN_APS_SIZE_TABLE_BUS_CAN_STD Invalid size of table 'BUS_COS_STD'.
0xC04A0019	ERR_CANOPEN_APS_SIZE_TABLE_BUS_CAN_EXT Invalid size of table 'BUS_COS_EXT'.
0xC04A001A	ERR_CANOPEN_APS_AUTOSTART_WITH_EXTENDED_MODE Autostart not allowed in extended mode.
0xC04A001B	ERR_CANOPEN_APS_ADDRESS_SWITCH_CONFIGURATION_NOT_POSSIBLE Address switch configuration is not possible.
0xC04A001C	ERR_CANOPEN_APS_BAUD_SWITCH_CONFIGURATION_NOT_POSSIBLE Baud switch configuration is not possible.
0xC04A001D	ERR_CANOPEN_APS_PARAM_LED_MODE Invalid parameter for LED mode.

Table 118: CANopen Slave Application Task

4.3 CC-Link

4.3.1 CC-Link Slave

Hexadecimal value	Definition and description
0xC06A0001	ERR_CCLINK_SLAVE_COMMAND_INVALID Invalid command received.
0xC06A0002	ERR_CCLINK_SLAVE_WATCHDOG_FAIL Watchdog failure detected.
0x406A0003	INFO_CCLINK_SLAVE_ALREADY_IN_STATE Slave is already in requested state.
0xC06A0004	ERR_CCLINK_SLAVE_PACKET_LENGTH Invalid length in packet.
0xC06A0005	ERR_CCLINK_SLAVE_DATA_COUNT Invalid data count.
0xC06A0006	ERR_CCLINK_SLAVE_DATA_OFFSET Invalid data offset.
0xC06A0007	ERR_CCLINK_SLAVE_INIT_BUFFER Initialization of buffer failed.
0xC06A0008	ERR_CCLINK_SLAVE_INVALID_STATE Command is not allowed in current state.
0xC06A0009	ERR_CCLINK_SLAVE_MODE Invalid mode in command.
0xC06A000A	ERR_CCLINK_SLAVE_PARAM_BAUDRATE Invalid Baud rate.
0xC06A000B	ERR_CCLINK_SLAVE_PARAM_STATION_ADDR Invalid station address for CC-Link Slave.
0xC06A000C	ERR_CCLINK_SLAVE_PARAM_NO_STATIONS Invalid parameter for number of stations.
0xC06A000D	ERR_CCLINK_SLAVE_PARAM_VENDOR_CODE Invalid parameter for vendor code.
0xC06A000E	ERR_CCLINK_SLAVE_PARAM_MODEL_CODE Invalid parameter for model code.
0xC06A000F	ERR_CCLINK_SLAVE_PARAM_SW_VERSION Invalid parameter for software version.
0xC06A0010	ERR_CCLINK_SLAVE_PARAM_MODEL_TYPE Invalid parameter for model type.
0xC06A0011	ERR_CCLINK_SLAVE_PARAM_STATION_TYPE Invalid parameter for station type.
0xC06A0012	ERR_CCLINK_SLAVE_PARAM_CYCLETIME Invalid parameter for cycle time.
0xC06A0013	ERR_CCLINK_SLAVE_PARAM_XC_INSTANCE Invalid parameter for XC-Instance.
0xC06A0014	ERR_CCLINK_SLAVE_PARAM_STATION_ADDR_WITH_NO_STATIONS Invalid parameter for station address in combination with number of stations.
0xC06A0015	ERR_CCLINK_SLAVE_PARAM_CCLINK_VERSION Invalid parameter for CC-Link version.
0xC06A0016	ERR_CCLINK_SLAVE_PARAM_EXTENSION_CYCLE Invalid parameter for extension cycle.

Hexadecimal value	Definition and description
0xC06A0017	ERR_CCLINK_SLAVE_PARAM_STATION_TYPE_WITH_CCLINK_VERSION Invalid parameter for station type in combination with CC-Link version.
0xC06A0018	ERR_CCLINK_SLAVE_PARAM_QUEUE_ELEMENT Invalid parameter for number of queue elements.
0xC06A0019	ERR_CCLINK_SLAVE_PARAM_POOL_ELEMENT Invalid parameter for number of pool elements.
0xC06A001A	ERR_CCLINK_SLAVE_PARAM_IO_TYPES_POINTS Invalid parameter for number of I/O types and I/O points.

Table 119: CC-Link Slave

4.3.2 CC-Link Slave Application Task

Hexadecimal value	Definition and description
0xC06B0001	ERR_CCLINK_APS_COMMAND_INVALID Invalid command received.
0x406B0002	INFO_CCLINK_APS_OPEN_DBM_FILE Failed to open configuration database.
0xC06B0003	ERR_CCLINK_APS_DATASET Failed to open configuration dataset.
0xC06B0004	ERR_CCLINK_APS_TABLE_GLOBAL Failed to open GLOBAL configuration dataset.
0xC06B0005	ERR_CCLINK_APS_TABLE_CCLS_INI Failed to open CCLS_INI configuration dataset.
0xC06B0006	ERR_CCLINK_APS_WATCHDOG_PARAMETER Invalid parameter for watchdog supervision.
0xC06B0007	ERR_CCLINK_APS_SIZE_TABLE_CCLS_INI Invalid size of CCLS_INI configuration dataset.
0xC06B0008	ERR_CCLINK_APS_PACKET_LENGTH Invalid packet length.
0x406B0009	INFO_CCLINK_APS_CONFIG_LOCK Configuration is locked.
0xC06B000A	ERR_CCLINK_APS_DATABASE_FOUND Configuration database found.
0xC06B000B	ERR_CCLINK_APS_SLAVE_STATION_ADDR_PARAMETER Invalid parameter for slave station address.
0xC06B000C	ERR_CCLINK_APS_BAUDRATE_PARAMETER Invalid parameter for baud rate.
0xC06B000D	ERR_CCLINK_APS_NO_STATION_PARAMETER Invalid parameter for number of stations.
0xC06B000E	ERR_CCLINK_APS_MODE_PARAMETER Invalid parameter for mode.
0xC06B000F	ERR_CCLINK_APS_VENDOR_CODE_PARAMETER Invalid parameter for vendor code.
0xC06B0010	ERR_CCLINK_APS_MODEL_CODE_PARAMETER Invalid parameter for model code.
0xC06B0011	ERR_CCLINK_APS_SW_VERSION_PARAMETER Invalid parameter for software version.
0xC06B0012	ERR_CCLINK_APS_MODEL_TYPE_PARAMETER Invalid parameter for model type.
0xC06B0013	ERR_CCLINK_APS_IO_MODE_PARAMETER Invalid parameter for IO mode.
0xC06B0014	ERR_CCLINK_APS_REQUEST_RUNNING Request already running.
0xC06B0015	ERR_CCLINK_APS_INVALID_STATE Request not allowed in current state.
0xC06B0016	ERR_CCLINK_APS_PARAM_CYCLETIME Invalid parameter for cycle time.
0xC06B0017	ERR_CCLINK_APS_PARAM_CHN_INSTANCE Invalid parameter for DPM instance.

Hexadecimal value	Definition and description
0xC06B0018	ERR_CCLINK_APS_SET_SWITCH_CHANGE_NOT_ALLOWED Change switch state not allowed.
0xC06B0019	ERR_CCLINK_APS_CCLINK_VERSION_PARAMETER Invalid parameter for CC-Link version.
0xC06B001A	ERR_CCLINK_APS_STATION_TYPE_PARAMETER Invalid parameter for station type.
0xC06B001B	ERR_CCLINK_APS_STATION_ADDR_WITH_NO_STATIONS_PARAMETER Invalid parameter for station address in combination with number of stations.
0xC06B001C	ERR_CCLINK_APS_EXTENSION_CYCLE_PARAMETER Invalid parameter extension cycle.
0xC06B001D	ERR_CCLINK_APS_STATION_TYPE_WITH_CCLINK_VERSION_PARAMETER Invalid parameter for station type in combination with CC-Link version.
0xC06B001E	ERR_CCLINK_APS_PARAM_QUEUE_ELEMENT Invalid parameter for number of queue elements.
0xC06B001F	ERR_CCLINK_APS_PARAM_POOL_ELEMENT Invalid parameter for number of pool elements.
0xC06B0020	ERR_CCLINK_APS_PARAM_SWITCH Invalid parameter for switch parameter.
0xC06B0021	ERR_CCLINK_APS_PARAM_IO_TYPES_POINTS Invalid parameter for number of I/O types and I/O points.

Table 120: CC-Link Slave Application Task

4.4 DeviceNet

4.4.1 DeviceNet Fieldbus Application Layer Task

Hexadecimal value	Definition and description
0xC0470001	ERR_DEVNET_FAL_COMMAND_INVALID Invalid command received.
0xC0470002	ERR_DEVNET_FAL_SERVICE_NOT_SUPPORTED Service not supported.
0xC0470003	ERR_DEVNET_FAL_RESET_IN_REQUEST Reset is in request.
0xC0470004	ERR_DEVNET_FAL_UNRECOVER_RESET_FAULT Unrecoverable reset fault.
0xC0470010	ERR_DEVNET_FAL_SET_MODE_INVALID_MODE Invalid value for 'mode' of command.
0xC0470011	ERR_DEVNET_FAL_SET_MODE_ALREADY_IN_REQUEST Command already in request.
0xC0470020	ERR_DEVNET_FAL_CLR_CONFIG_NOT_ALLOWED_IN_ACTUAL_STATE Not allowed to clear configuration in current mode.
0xC0470030	ERR_DEVNET_FAL_DOWNLOAD_NOT_ALLOWED_IN_ACTUAL_STATE Download not allowed in current state.
0xC0470031	ERR_DEVNET_FAL_DOWNLOAD_INVALID_AREA_CODE Invalid value in 'AreaCode' of command.
0xC0470032	ERR_DEVNET_FAL_DOWNLOAD_INVALID_SEQUENCE Sequence error.
0xC0470033	ERR_DEVNET_FAL_DOWNLOAD_TO_MUCH_DATA Too much data.
0xC0470034	ERR_DEVNET_FAL_DOWNLOAD_TO_LESS_DATA Less data.
0xC0470035	ERR_DEVNET_FAL_DOWNLOAD_ALLREADY_CONFIGURED DeviceNet Stack already configured.
0xC0470036	ERR_DEVNET_FAL_DOWNLOAD_FAULTY_CONFIGURATION DeviceNet Stack with a faulty configured loaded.
0xC0470100	ERR_DEVNET_FAL_BAUDRATE_OUT_OF_RANGE Invalid Baud rate.
0xC0470101	ERR_DEVNET_FAL_MAC_ID_OUT_OF_RANGE Invalid MAC Id.
0xC0470102	ERR_DEVNET_FAL_ADR_DOUBLE Slave already configured.
0xC0470103	ERR_DEVNET_FAL_DATA_SET_FIELD_LEN Invalid length of slave parameter set.
0xC0470104	ERR_DEVNET_FAL_PRED_MST_SL_ADD_LEN Invalid length of address table in parameter set.
0xC0470105	ERR_DEVNET_FAL_PRED_MSTSL_CFG_FIELD_LEN Invalid length of predefined master slave config table in parameter set.
0xC0470106	ERR_DEVNET_FAL_PRED_MST_SL_ADD_TAB_INCONS Inconsistency between address table and configured connection length.
0xC0470107	ERR_DEVNET_FAL_EXPL_PRM_FIELD_LEN Invalid Length of explicit parameter data in slave parameter set.

Hexadecimal value	Definition and description
0xC0470108	ERR_DEVNET_FAL_PRED_MSTSL_CFG_ADD_INPUT_INCONS Inconsistency between number of input address offsets and configured input modules.
0xC0470109	ERR_DEVNET_FAL_PRED_MSTSL_CFG_ADD_OUTPUT_INCONS Inconsistency between number of output address offsets and configured output modules.
0xC047010A	ERR_DEVNET_FAL_UNKNOWN_DATA_TYPE Unknown data type in of the module definition.
0xC047010B	ERR_DEVNET_FAL_MODULE_DATA_SIZE Invalid data size in of the module definition.
0xC047010C	ERR_DEVNET_FAL_OUTPUT_OFF_RANGE Output address offset exceeds the maximum allowed area.
0xC047010D	ERR_DEVNET_FAL_INPUT_OFF_RANGE Input address offset exceeds the maximum allowed area.
0xC047010E	ERR_DEVNET_FAL_WRONG_TYPE_OF_CONNECTION Invalid type of connection configured.
0xC047010F	ERR_DEVNET_FAL_TYPE_CONNECTION_REDEFINITION Redefinition of connection type.
0xC0470110	ERR_DEVNET_FAL_EXP_PACKET_LESS_PROD_INHIBIT Configured 'Production Inhibit Time' is smaller than 'Expected Packet Rate'.
0xC0470111	ERR_DEVNET_FAL_PRM_FIELD_LEN_INCONSISTENT Invalid length of parameter field in slave parameter set.
0xC0470112	ERR_DEVNET_FAL_SET_BAUDRATE_FAIL Error while setting baud rate.
0xC0470113	ERR_DEVNET_FAL_REG_FRAG_TIMEOUT_OUT_OF_RANGE Invalid value of fragmentation timeout.
0xC0470114	ERR_DEVNET_FAL_PRM_OUT_MEMORY Out of memory for configuration data.
0xC0470211	ERR_DEVNET_FAL_CON_NA No response from device.
0xC0470215	ERR_DEVNET_FAL_CON_MDA Too much data received.
0xC0470233	ERR_DEVNET_FAL_CON_LE Invalid length of requested service.
0xC0470236	ERR_DEVNET_FAL_CON_AD Another service still active.
0xC0470239	ERR_DEVNET_FAL_CON_SE Sequence error in response sequence.
0xC0470240	ERR_DEVNET_FAL_CON_OC Explicit Message Handler is occupied.
0xC0470294	ERR_DEVNET_FAL_CON_ERR_RES Service Error Response.
0xC0470295	ERR_DEVNET_FAL_LIFELIST_IN_PROGRESS Life list request in progress
0xC0470296	ERR_DEVNET_FAL_BTS_IN_PROGRESS Bit strobe request in progress
0xC0470297	ERR_DEVNET_FAL_BUS_NOT_ONLINE Bus is not in online state
0xC0470298	ERR_DEVNET_FAL_24V_NETWORK_POWER_MISSING 24V Network Power Missing

Hexadecimal value	Definition and description
0xC0471000	ERR_DEVNET_FAL_SLAVE_NOEXCHANGE Service Error Response.

Table 121: DeviceNet Fieldbus Application Layer Task

4.4.2 DeviceNet AP Task

Hexadecimal value	Definition and description
0xC05B0001	ERR_DEVNET_AP_COMMAND_INVALID Invalid command received.
0xC05B0002	ERR_DEVNET_AP_SERVICE_NOT_SUPPORTED Service not supported.
0xC05B0010	ERR_DEVNET_AP_NO_DATA_BASE No data base found.
0xC05B0011	ERR_DEVNET_AP_ERR_OPEN_DATA_BASE Error while opening data base.
0xC05B0012	ERR_DEVNET_AP_ERR_READ_DATA_BASE Error while reading data base.
0xC05B0013	ERR_DEVNET_AP_TABLE_NOT_FOUND Table not found in data base.
0xC05B0014	ERR_DEVNET_AP_INVALID_DNM_DATA_BASE No valid DeviceNet data base.
0xC05B0100	ERR_DEVNET_AP_NON_EXCHANGE_SLAVE No data exchange with at least one slave.
0xC05B0101	ERR_DEVNET_AP_NON_EXCHANGE_ALL No slave in data exchange.
0xC05B0110	ERR_DEVNET_AP_ILLEGAL_PACKET_LENGTH Invalid packete length.
0xC05B0111	ERR_DEVNET_AP_WRONG_WD_VALUE Wrong watchdog.

Table 122: DeviceNet AP Task

4.4.3 DeviceNet Slave Fieldbus Application Layer Task

Hexadecimal value	Definition and description
0xC0620001	ERR_DNS_FAL_DUPLICATE_MAC_ID Duplicate MAC ID found.
0xC0620002	ERR_DNS_FAL_INIT_TO_LESS_DATA Too less data for init command.
0xC0620003	ERR_DNS_FAL_FUNCTION_NOT_SUPPORTED Function not supported.
0xC0620004	ERR_DNS_FAL_COMMAND_ALLREADY_IN_REQUEST Command already in request.
0xC0620006	ERR_DNS_FAL_PRM_ERR_CODE Invalid parameter in Init Stack request.
0xC0620007	ERR_DNS_FAL_BAUDRATE_OUT_RANGE Invalid Baud rate entered in Init Stack request.
0xC0620008	ERR_DNS_FAL_MAC_ID_OUT_RANGE Invalid MAC ID entered in Init Stack request.
0xC0620009	ERR_DNS_FAL_INVALID_PRODUCT_LEN Invalid Product Name Length entered in Init Stack request..
0xC062000A	ERR_DNS_FAL_INVALID_PRODUCED_SIZE Invalid Produced Size entered in Init Stack request.
0xC062000B	ERR_DNS_FAL_INVALID_CONSUMED_SIZE Invalid Consumed Size entered in Init Stack request.
0xC062000C	ERR_DNS_FAL_INVALID_MAJOR_REV Invalid Major Rev entered in Init Stack request.
0xC062000D	ERR_DNS_FAL_INVALID_MINOR_REV Invalid Minor Rev entered in Init Stack request.
0xC062000E	ERR_DNS_FAL_INVALID_VENDOR_ID Invalid Vendor ID entered in Init Stack request.
0xC062000F	ERR_DNS_FAL_INVALID_PRODUCT_TYPE Invalid Product Type entered in Init Stack request.
0xC0620010	ERR_DNS_FAL_INVALID_PRODUCT_CODE Invalid Product Code entered in Init Stack request.
0xC0620011	ERR_DNS_FAL_ALREADY_CONFIGURED Slave is already configured.
0xC0620012	ERR_DNS_FAL_SET_MODE_INVALID_MODE Invalid operation mode during Set Mode Request.
0xC0620013	ERR_DNS_FAL_SET_MODE_ALLREADY_IN_REQUEST Slave is currently in the mode requested.
0xC0620014	ERR_DNS_FAL_GET_STATUS_INVALID_STATUS Invalid parameter in Get Status Command.
0xC0620015	ERR_DNS_FAL_UPDATE_IO_INVALID_IN_LEN Invalid Input Length specified in Update I/O Command.
0xC0620016	ERR_DNS_FAL_UPDATE_IO_INVALID_OUT_LEN Invalid Output Length specified in Update I/O Command.
0xC0620017	ERR_DNS_FAL_UPDATE_IO_INVALID_OUT_OFFSET Invalid Output Offset specified in Update I/O Command.
0xC0620018	ERR_DNS_FAL_UPDATE_IO_INVALID_IN_OFFSET Invalid Input Offset specified in Update I/O Command.

Hexadecimal value	Definition and description
0xC0620019	ERR_DNS_FAL_SET_INPUT_INVALID_IN_LEN Invalid Input Length specified in Set Input Command.
0xC062001A	ERR_DNS_FAL_SET_INPUT_INVALID_IN_OFFSET Invalid Input Offset specified in Set Input Command.
0xC062001B	ERR_DNS_FAL_GET_OUTPUT_INVALID_OUT_LEN Invalid Output Length specified in Get Output Command.
0xC062001C	ERR_DNS_FAL_GET_OUTPUT_INVALID_OUT_OFFSET Invalid Output Offset specified in Get Output Command.
0xC062001E	ERR_DNS_FAL_DOWNLOAD_INVALID_AREA_CODE Invalid download area specified.
0xC062001F	ERR_DNS_FAL_DOWNLOAD_INVALID_SEQUENCE Invalid Download Sequence.
0xC0620020	ERR_DNS_FAL_DOWNLOAD_TO_MUCH_DATA Too much data received.
0xC0620021	ERR_DNS_FAL_DOWNLOAD_TO_LESS_DATA Not enough data received during the download.
0xC0620022	ERR_DNS_FAL_NO_CONFIGURATION No configuration.
0xC0620023	ERR_DNS_FAL_BUS_OFF_STATE Network error BUS OFF detected.
0xC0620024	ERR_DNS_FAL_NO_NETWORK No network access.
0xC0620025	ERR_DNS_FAL_BUS_STOP Communication not released by application (BUS Stop).
0xC0620026	ERR_DNS_FAL_NO_COMMUNICATION No communication.
0xC0620027	ERR_DNS_FAL_SERVICE_DATA_LENGTH_INVALID Invalid length of service data.
0xC0620028	ERR_DNS_FAL_USER_OBJ_CONFIGURED User object already configured.
0xC0620029	ERR_DNS_FAL_USER_OBJ_LOCKED User object is locked and cannot be passed through.
0xC062002A	ERR_DNS_FAL_USER_OBJ_ALREADY_REGISTERED User object has already been registered.
0xC062002B	ERR_DNS_FAL_USER_OBJ_NOT_REGISTERED User object has not been registered.
0xC062002C	ERR_DNS_FAL_24V_NETWORK_POWER_MISSING 24V Network Power Missing

Table 123: DeviceNet Slave Fieldbus Application Layer Task

4.4.4 DeviceNet Slave AP Task

Hexadecimal value	Definition and description
0xC0630000	ERR_DNS_APS_NOTREGISTERED User Application not registered.
0xC0630001	ERR_DNS_APS_ALREADY_REGISTERED User Application already registered.
0xC0630002	ERR_DNS_APS_PACKET_LENGTH_INVALID Invalid packet length for register/unregister command.
0xC0630003	ERR_DNS_APS_ACCESS_FAIL Unregister application queue access failed.
0xC0630004	ERR_DNS_APS_CONFIG_LOCK Function not allowed because configuration locked.
0xC0630005	ERR_DNS_AP_NO_DATA_BASE No database available.
0xC0630006	ERR_DNS_AP_OPEN_DATA_BASE Error open database.
0xC0630007	ERR_DNS_AP_IV_DNS_DATA_BASE Not a valid DeviceNet Slave database.
0xC0630008	ERR_DNS_AP_READ_DATA_BASE_TBL_GLB Error while reading table GLOBAL.
0xC0630009	ERR_DNS_AP_OPEN_DATA_BASE_TBL_GLB Error while open table GLOBAL.
0xC063000A	ERR_DNS_AP_OPEN_DATA_BASE_TBL_DNS Error while open table DNS.
0xC063000B	ERR_DNS_AP_READ_DATA_BASE_TBL_DNS Error while reading table DNS.

Table 124: DeviceNet Slave AP task

4.5 IO-Link

4.5.1 IO-Link Master

Hexadecimal value	Definition and description
0xC06D0001	ERR_IOLINK_MASTER_INVALID_COMMAND Invalid command received.
0xC06D0002	ERR_IOLINK_MASTER_INVALID_PARAMETER Invalid parameter for object.
0xC06D0003	ERR_IOLINK_MASTER_PL_WAKEUP_SEQUENCE_FAILED Error on executing of WakeUp sequence - (PL) Layer.
0xC06D0012	ERR_IOLINK_MASTER_PL_SEND_FRAME_ERROR Error while sending a frame - (PL) Layer.
0xC06D0004	ERR_IOLINK_MASTER_PL_TRANSFER_IND_ERROR_GET_SEND_CONFIRMATION Error occurs while getting send confirmation with a HAL function IOLM_GetSendConfirmation().
0xC06D0005	ERR_IOLINK_MASTER_PL_TRANSFER_IND_ERROR_PARITY Parity error occurs during receiving of device frame - (PL) Physical Layer.
0xC06D0006	ERR_IOLINK_MASTER_PL_TRANSFER_IND_ERROR_FRAMING Framing error occurs during receiving of device frame - (PL) Physical Layer.
0xC06D0007	ERR_IOLINK_MASTER_PL_TRANSFER_IND_ERROR_OVERRUN Buffer overflow on receiving of device frame - (PL) Physical Layer.
0xC06D0010	ERR_IOLINK_MASTER_PL_SET_IRQ_MASK_ERROR Error on setting of IRQ mask - (PL) Physical Layer.
0xC06D0021	ERR_IOLINK_MASTER_PL_UNKNOWN_BAUD_RATE Unknown baud rate - (PL) Layer.
0xC06D0022	ERR_IOLINK_MASTER_PL_MODE_ERROR Error on setting the mode in (PL) Layer.
0xC06D0008	ERR_IOLINK_MASTER_DL_NOT_CONNECTED Error in DL_SetMode service - device not connected - (DL-B) Layer.
0xC06D0009	ERR_IOLINK_MASTER_DL_STATE_CONFLICT Invalid service executed - not possible in current state conflict - (DL-B) Layer.
0xC06D000A	ERR_IOLINK_MASTER_DL_PARAMETER_CONFLICT Error in DL_SetMode service - wrong parameter - (DL-B) Layer.
0xC06D000B	ERR_IOLINK_MASTER_DL_MODE_CALLBACK_ALREADY_SET Callback for DL_Mode indication is already set - (DL-B) Layer.
0xC06D000C	ERR_IOLINK_MASTER_DL_WAKEUP_SEQUENCE_FAILED After 3 WakeUp tries no device was found - (DL-B) Layer.
0xC06D000D	ERR_IOLINK_MASTER_DL_GET_BAUD_RATE_FAILED Error on getting of actual baud rate - (DL-B) Layer.
0xC06D0024	ERR_IOLINK_MASTER_PL_GET_BAUD_RATE_FAILED Error on getting of actual baud rate - (PL) Layer.
0xC06D000E	ERR_IOLINK_MASTER_DL_CMD_SEQUENCE_ERROR Error on CMD sequence in DL-Mode Handler or Frame Handler - (DL-B) Layer.
0xC06D000F	ERR_IOLINK_MASTER_DL_CMD_NO_COMM Error on CMD sequence, no communication to Device - (DL-B) Layer.
0xC06D0011	ERR_IOLINK_MASTER_DL_FRAME_SEQUENCE_ERROR Error on frame sequence, unexpected frame - (DL-A) Layer.
0xC06D0013	ERR_IOLINK_MASTER_DL_FH_ILLEGAL_FRAME_TYPE_ERROR Using these frame types is forbidden in this state - (DL-A) Layer.

Hexadecimal value	Definition and description
0xC06D0014	ERR_IOLINK_MASTER_DL_FRAME_HANDLER_STATE_CONFLICT State conflict error in Frame Handler - (DL-A) Layer.
0xC06D0015	ERR_IOLINK_MASTER_DL_FRAME_CHECKSUM_ERROR Invalid CHECKSUM received - (DL-A) Layer.
0xC06D0016	ERR_IOLINK_MASTER_DL_READ_STATE_CONFLICT State conflict in DL_Read.req - (DL-B) Layer.
0xC06D0018	ERR_IOLINK_MASTER_DL_INVALID_F_SEQ_CAPABILITY Invalid F-sequence capability was read from device - (DL-A) Layer.
0xC06D0019	ERR_IOLINK_MASTER_DL_INVALID_CYCLE_TIME Invalid cycle time configured - (DL-A) Layer.
0xC06D001A	ERR_IOLINK_MASTER_DL_NO_FRAME_IN_SEND_BUFFER No frame to send - (DL-A) Layer.
0xC06D0025	ERR_IOLINK_MASTER_DL_FRAME_HANDLER_WRONG_PARAM Wrong parameter - (DL-A) Layer.
0xC06D001B	ERR_IOLINK_MASTER_DL_FRAME_HANDLER_CONFIG_ERROR Configuration error in Frame Handler - (DL-A) Layer.
0xC06D001C	ERR_IOLINK_MASTER_DL_FRAME_HANDLER_INVALID_DPP_VALUES Direct Parameter Page values from device are invalid - (DL-A) Layer.
0xC06D001D	ERR_IOLINK_MASTER_DL_COMMAND_HANDLER_MASTER_CMD_FAILED Writing of the MasterCommand to Device was failed - (DL-B) Layer.
0xC06D001E	ERR_IOLINK_MASTER_DL_PD_HANDLER_STATE_CONFLICT State conflict or invalid service in current state - (DL-B) Layer.
0xC06D001F	ERR_IOLINK_MASTER_DL_PD_HANDLER_INACTIVE Process data handler is not activated - (DL-B) Layer.
0xC06D0020	ERR_IOLINK_MASTER_DL_PD_HANDLER_INVALID_PARAMETER PDHandler, invalid parameter - (DL-B) Layer.
0xC06D0023	ERR_IOLINK_MASTER_DL_INVALID_MASTER_COMMAND_CNF Invalid MasterCommand confirmation.
0xC06D0026	ERR_IOLINK_MASTER_DL_CMD_ABORT_ERROR CMD service abort error.
0xC06D0027	ERR_IOLINK_MASTER_DL_FH_CONFIG_PARAM_ERROR CMD service abort error.
0xC06D0029	ERR_IOLINK_MASTER_DL_FRAME_HANDLER_FATAL_ERROR Fatal error in Frame Handler.
0xC06D002A	ERR_IOLINK_MASTER_DL_FH_INVALID_FRAME_TYPE_PREOP Invalid frame type for PREOPERATE mode.
0xC06D002B	ERR_IOLINK_MASTER_DL_FH_INVALID_FRAME_TYPE_OP Invalid frame type for OPERATE mode.
0xC06D002C	ERR_IOLINK_MASTER_DL_FH_INVALID_MODE_HANDLER_STATE Invalid Mode Handler state detected by Frame Handler.
0xC06D002D	ERR_IOLINK_MASTER_DL_FH_INVALID_FRAME_TYPE_RECEIVE Invalid frame type on frame receiving.
0xC06D0028	ERR_IOLINK_MASTER_DL_FH_UNKNOWN_COM_CHANNEL Unknown IO-Link data communication channel.
0xC06D002E	ERR_IOLINK_MASTER_DL_FH_FRAME_TYPE_0_CREATING_ERROR Error on Creation of Frame TYPE_0.
0xC06D002F	ERR_IOLINK_MASTER_DL_FH_FRAME_TYPE_1_2_CREATING_ERROR Error on Creation of Frame TYPE_1_2.

Hexadecimal value	Definition and description
0xC06D0030	ERR_IOLINK_MASTER_DL_FH_FRAME_TYPE_1_V_CREATING_ERROR Error on Creation of Frame TYPE_1_V.
0xC06D0031	ERR_IOLINK_MASTER_DL_FH_FRAME_TYPE_1_X_CREATING_ERROR Error on Creation of Frame TYPE_1_X.
0xC06D0032	ERR_IOLINK_MASTER_DL_FH_FRAME_TYPE_2_X_CREATING_ERROR Error on Creation of Frame TYPE_2_X.
0xC06D0033	ERR_IOLINK_MASTER_DL_ONREQ_COMMAND_HANDLER_STATE_CONFLICT The service is not allowed in current state.
0xC06D0034	ERR_IOLINK_MASTER_DL_ONREQ_COMMAND_HANDLER_NOT_ACTIVATED Command Handler is not activated.
0xC06D0035	ERR_IOLINK_MASTER_DL_ONREQ_COMMAND_HANDLER_CMD_ERROR Error on CMD.cnf service.
0xC06D0036	ERR_IOLINK_MASTER_DL_ONREQ_EVENT_HANDLER_EVENT_FLAG_STILL_SET Event flag is still set.
0xC06D0037	ERR_IOLINK_MASTER_DL_ONREQ_EVENT_HANDLER_INACTIVE Event Handler is inactive.
0xC06D0038	ERR_IOLINK_MASTER_DL_ONREQ_EVENT_HANDLER_STATE_CONFLICT Event Handler state conflict.
0xC06D0039	ERR_IOLINK_MASTER_DL_ONREQ_SERVICE_HANDLER_REQUEST_ALREADY_IN_PROCESS A request is already in process.
0xC06D003A	ERR_IOLINK_MASTER_DL_ONREQ_SERVICE_HANDLER_UNCONFIGURED Service Handler is inactive.
0xC06D003B	ERR_IOLINK_MASTER_DL_ONREQ_SERVICE_HANDLER_ISDU_CREATING_ERROR ISDU creating error.
0xC06D003C	ERR_IOLINK_MASTER_DL_ONREQ_SERVICE_HANDLER_STATE_CONFLICT Service Handler state conflict.
0xC06D003D	ERR_IOLINK_MASTER_DL_ONREQ_SERVICE_HANDLER_ISDU_SEQ_ERROR Service Handler ISDU sequence error.
0xC06D003E	ERR_IOLINK_MASTER_DL_ONREQ_HANDLER_READ_STATE_CONFLICT DL_Read.req state conflict.
0xC06D003F	ERR_IOLINK_MASTER_DL_ONREQ_HANDLER_WRITE_STATE_CONFLICT DL_Write.req state conflict.
0xC06D0040	ERR_IOLINK_MASTER_DL_ONREQ_HANDLER_STATE_CONFLICT On-Req Handler state conflict.
0xC06D0041	ERR_IOLINK_MASTER_DL_ONREQ_HANDLER_INACTIVE On-Req Handler inactive.
0xC06D0042	ERR_IOLINK_MASTER_DL_ONREQ_HANDLER_CONFIG_ERROR On-Req Handler configuration error.
0xC06D0043	ERR_IOLINK_MASTER_SM_PORT_HANDLER_STATE_CONFLICT SM Port Handler state conflict.
0xC06D0044	ERR_IOLINK_MASTER_SM_PORT_HANDLER_INVALID_CYCLE_TIME SM Port Handler invalid cycle time.
0xC06D0045	ERR_IOLINK_MASTER_SM_PORT_HANDLER_INVALID_PARAMETER SM Port Handler invalid parameter.
0xC06D0046	ERR_IOLINK_MASTER_SM_PORT_HANDLER_INVALID_F_SEQ_CAPABILITY SM Port Handler invalid F-seq Capability received from device.

Hexadecimal value	Definition and description
0xC06D0047	ERR_IOLINK_MASTER_SM_PORT_HANDLER_INVALID_DPP_VALUES SM Port Handler invalid DPP value received.
0xC06D0048	ERR_IOLINK_MASTER_DL_ONREQ_HANDLER_NO_ISDU_REQUEST There is no ISDU request to abort.
0xC06D0049	ERR_IOLINK_MASTER_DL_ONREQ_DL_CONTROL_ERROR Error when calling DL_Control service. Command handler deactivated or connected device has no output PD.
0xC06D004A	ERR_IOLINK_MASTER_DL_PD_HANDLER_INVALID_INPUT_LENGTH_RECEIVED Unexpected PD.cnf output data length received.
0xC06D004B	ERR_IOLINK_MASTER_DL_PD_HANDLER_NO_OUTPUT No output process data available.
0xC06D004C	ERR_IOLINK_MASTER_DL_PD_HANDLER_NO_PD_EXCHANGE Currently no process data exchange.
0xC06D004D	ERR_IOLINK_MASTER_DL_PD_HANDLER_NO_INPUT No input process data available.
0xC06D004E	ERR_IOLINK_MASTER_SM_PORT_HANDLER_INVALID_SER_NUMBER_LEN Invalid serial number length.
0xC06D004F	ERR_IOLINK_MASTER_AL_SM_OPERATE_INVALID_STATE The switching into the OPERATE state cannot be executed in this state.
0xC06D0050	ERR_IOLINK_MASTER_DL_PD_HANDLER_OUTPUT_PD_LENGTH_TOO_SHORT The output PD could not be set because the length of this data is too short.
0x406D0051	INFO_IOLINK_MASTER_DL_PD_HANDLER_MEM_NO_UPDATE There are no new process data since the last call.
0xC06D0052	ERR_IOLINK_PS_JOB_MULTIPLE_QUEUED Job tried to queue more than one time (test).

Table 125: IO-Link Master status codes

4.5.2 IO-Link Master AP Task

Hexadecimal value	Definition and description
0xC0A50004	ERR_IOLINK_AL_INVALID_INDEX Invalid Index.
0xC0A50005	ERR_IOLINK_AL_INVALID_SUBINDEX Invalid Subindex.
0xC0A50006	ERR_IOLINK_AL_INVALID_WRITE_LENGTH Invalid length on AL_Write request.
0xC0A50007	ERR_IOLINK_AL_NO_ISDU_SUPPORTED No ISDU supported by connected Device.
0xC0A5000D	ERR_IOLINK_AL_INVALID_PORT_NUMBER Invalid Port Number.
0xC0A5001F	ERR_IOLINK_AL_ODE_SERVICE_NOT_AVAILABLE On-request service not available now.
0xC0A50031	ERR_IOLINK_AL_ONREQ_SERVICE_ALREADY_IN_PROCESS Another OnReq Request is already in process.
0xC0A50035	ERR_IOLINK_AL_INCONSISTENT_DATA_SET Content of data storage is not consistent.
0xC0A50052	ERR_IOLINK_AL_PUBLIC_ACCESS_NOT_PERMITTED Public access to this content is not permitted by IO-Link Specification.
0x40A51000	INFO_IOLINK_APP_NOT_ME The indication has not been processed by the application or a component.
0xC0A51001	ERR_IOLINK_APP_NO_MORE_HANDLES_AVAILABLE No more handles available.
0xC0A51002	ERR_IOLINK_APP_CALLBACK_ALREADY_REGISTERED The callback function has already been registered by the application.
0xC0A51004	ERR_IOLINK_APP_UNKNOWN_TYPE Type of information to get or to set is unknown.
0xC0A51005	ERR_IOLINK_APP_NOT_SUPPORTED Type of Information to get or to set is not supported.
0xC0A51006	ERR_IOLINK_APP_NOT_ALLOWED Type of Information to get or to set is not allowed.
0xC0A51007	ERR_IOLINK_APP_NOT_INITIALIZED Module currently not initialized.

Table 126: IO-Link Master AP Task

4.6 PROFIBUS

4.6.1 PROFIBUS DL

Hexadecimal value	Definition and description
0xC0060001	ERR_PROFIBUS_DL_COMMAND_INVALID Invalid command received.
0xC0060040	ERR_PROFIBUS_DL_XC_INVALID The assigned XC-Data Link Layer is not installed or has a pending error.
0xC0060041	ERR_PROFIBUS_DL_BAUDRATE_INVALID The specified baud rate option is not supported and is out of range.
0xC0060042	ERR_PROFIBUS_DL_GAP_UPDATE_INVALID The specified GAP update factor option is not supported and is out of range 1-100.
0xC0060043	ERR_PROFIBUS_DL_DL_ADDR_INVALID The specified local PROFIBUS address option is not supported and is out of range 0-125.
0xC0060044	ERR_PROFIBUS_DL_RETRY_LIMIT The specified retry limit option is not supported and is zero.
0xC0060045	ERR_PROFIBUS_DL_HSA_INVALID The specified highest station address option is not supported and is out of range 0-126.
0xC0060046	ERR_PROFIBUS_DL_NO_BUS_PARAMETER_SET The service cannot be executed, no bus parameter are specified yet.
0xC0060047	ERR_PROFIBUS_DL_DLE_NOT_RESPONDING The service has detected a timeout at the connected XC-Data Link Layer entity.
0xC0060048	ERR_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	ERR_PROFIBUS_DL_FATAL_DL_RESOURCE There are no further resource blocks available to execute the service within the connected XC-Data Link Layer entity.
0xC0060050	ERR_PROFIBUS_DL_STOPPED PROFIBUS is stopped command cannot be handled.
0xC0060051	ERR_PROFIBUS_DL_PENDING_PACKET Previous pending packet is returned. It could not be handled.
0xC0060052	ERR_PROFIBUS_DL_SLAVE_MODE Command could not be executed, DL-task is running at slave mode.
0xC0060080	ERR_PROFIBUS_DL_ACK_UE The remote station, the service has been sent to, indicates a User Error as service acknowledgment.
0xC0060081	ERR_PROFIBUS_DL_ACK_RR The remote station, the service has been sent to, indicates a Resource Error as service acknowledgment.
0xC0060082	ERR_PROFIBUS_DL_ACK_RS The remote station, the service has been sent to, indicates a Service Access Point Error as service acknowledgment.
0xC0060083	ERR_PROFIBUS_DL_ACK_NR The remote station, the service has been sent to, confirms the receipt positively but has no data to confirm.
0xC0060084	ERR_PROFIBUS_DL_ACK_RDH The remote station, the service has been sent to, confirms the receipt negatively but has returned high priority data in response.

Hexadecimal value	Definition and description
0xC0060085	ERR_PROFIBUS_DL_ACK_RDL The remote station, the service has been sent to, confirms the receipt negatively but has returned low priority data in response.
0xC0060086	ERR_PROFIBUS_DL_ACK_DH The remote station the service has been sent to, confirms the receipt positively and has returned high priority data in response.
0xC0060087	ERR_PROFIBUS_DL_ACK_DL The remote station the service has been sent to, confirms the receipt positively and has returned low priority data in response.
0xC0060088	ERR_PROFIBUS_DL_ACK_NA The remote station, the service has been sent to, shows no or no plausible reaction at all.
0xC0060089	ERR_PROFIBUS_DL_ACK_UNKNOWN The remote station, the service has been sent to, has returned an unknown acknowledgment code.
0xC006008A	ERR_PROFIBUS_DL_ACK_LS The requested service is not activated within the local SAP configuration.
0xC006008B	ERR_PROFIBUS_DL_ACK_LR The local resources needed to execute the requested service are not available or not sufficient.
0xC006008C	ERR_PROFIBUS_DL_ACK_DS The local data link layer is not in the logical token ring or disconnected from the network.
0xC006008D	ERR_PROFIBUS_DL_ACK_IV Invalid parameter detected in the requested service.
0xC006008E	ERR_PROFIBUS_DL_ACK_NO The local SAP is not activated because it has been activated already or resources are not sufficient.
0xC006008F	ERR_PROFIBUS_DL_ACK_NO_SET The variable to be set does not exist.
0xC0060090	ERR_PROFIBUS_DL_ACK_RE Format error of the telegram.
0xC0060091	ERR_PROFIBUS_DL_TSET_INVALID The specified parameter TSET is out of range 1-255.
0xC0060092	ERR_PROFIBUS_DL_MAX_SUBSCRIBER_REACHED The subscriber could not be started. Maximum of supported subscribers reached.
0xC0060093	ERR_PROFIBUS_DL_NO_SUBSCRIBER_FOUND The subscriber with the given address could not be found.

Table 127: PROFIBUS DL packet status codes

4.6.2 PROFIBUS FSPMS

Hexadecimal value	Definition and description
0xC0090001	ERR_PROFIBUS_FSPMS_COMMAND_INVALID Invalid command received.
0xC0090002	ERR_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	ERR_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	ERR_PROFIBUS_FSPMS_MS0_INIT_WRONG_STATE The cyclic slave state machine cannot be initialized, state machine is not in "POWER-ON" state.
0xC0090005	ERR_PROFIBUS_FSPMS_SLAVE_DIAG_POWER_ON The diagnostic data of the slave cannot be set because the slave state machine has not been not initialized yet.
0xC0090006	ERR_PROFIBUS_FSPMS_SET_CFG_POWER_ON The configuration data of the slave cannot be set because the slave state machine has not been initialized yet.
0xC0090007	ERR_PROFIBUS_FSPMS_GET_OUTPUT_POWER_ON Failure to get the output data of the slave because the slave state machine has not been initialized yet.
0xC0090008	ERR_PROFIBUS_FSPMS_GET_OUTPUT_WAIT_PRM Failure to get the output data of the slave because the slave state is currently in state "WAIT-PRM".
0xC0090009	ERR_PROFIBUS_FSPMS_SET_INPUT_POWER_ON The input data of the slave cannot be set because the slave state machine has not been initialized yet.
0xC009000A	ERR_PROFIBUS_FSPMS_SET_INPUT_WAIT_PRM The input data of the slave cannot be set because the slave state is currently in state "WAIT-PRM".
0xC009000B	ERR_PROFIBUS_FSPMS_CHECK_USER_PRM_POWER_ON The parameter data of the slave cannot be confirmed because the slave state machine has not been initialized yet.
0xC009000C	ERR_PROFIBUS_FSPMS_CHECK_USER_PRM_NOT_PENDING There is no Parameter Data checking command pending, command ignored.
0xC009000D	ERR_PROFIBUS_FSPMS_CHECK_USER_PRM_NEW_PARAMETER The confirmation of the Slave Parameter Data is obsolete, new Slave Parameter Data is available.
0xC009000E	ERR_PROFIBUS_FSPMS_CHECK_CFG_POWER_ON The configuration data of the slave cannot be confirmed because the slave state machine has not been initialized yet.
0xC009000F	ERR_PROFIBUS_FSPMS_CHECK_CFG_NOT_PENDING There is no Configuration Data checking command pending, command ignored.
0xC0090010	ERR_PROFIBUS_FSPMS_CHECK_CFG_NEW_CONFIGURATION The confirmation of the Slave Configuration Data is obsolete, new Slave Configuration Data is available.
0xC0090011	ERR_PROFIBUS_FSPMS_CHECK_EXT_USER_PRM_POWER_ON The extended parameter data of the slave cannot be confirmed because the slave state machine has not been initialized yet.
0xC0090012	ERR_PROFIBUS_FSPMS_CHECK_EXT_USER_PRM_NOT_PENDING There is no extended Parameter Data checking command pending, command ignored.

Hexadecimal value	Definition and description
0xC0090013	ERR_PROFIBUS_FSPMS_CHECK_EXT_USER_PRM_NEW_PARAMETER The confirmation of the extended Slave Parameter Data is obsolete, new extended Slave Parameter Data is available.
0xC0090014	ERR_PROFIBUS_FSPMS_ABORT_IGNORED The abort command is ignored in the current state of the slave state machine.
0xC0090015	ERR_PROFIBUS_FSPMS_GET_OUTPUT_WAIT_CFG Failure to get the output data of the slave because the slave state is currently in state "WAIT-CFG".
0xC0090016	ERR_PROFIBUS_FSPMS_SET_INPUT_NOT_PENDING The input data of the slave cannot be set because the input update is not pending.
0xC0090017	ERR_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	ERR_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	ERR_PROFIBUS_FSPMS_APPLICATION_READY_IGNORED The Application ready command is ignored in the current state of the slave state machine.
0xC009001A	ERR_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	ERR_PROFIBUS_FSPMS_GET_OUTPUT_DATA_EXCHANGE_NO_CYCLE Getting the Slave Output Data cannot be performed because the slave state machine is in state "DATA-EXCH" but no output cycle has been driven yet.
0xC009001C	ERR_PROFIBUS_FSPMS_APPLICATION_ALREADY_READY The Application ready command is ignored because the application has already signaled "ready".
0xC009001D	ERR_PROFIBUS_FSPMS_SLAVE_DIAG_PENDING A new Slave Diagnostic command cannot be accepted while a previous one is pending.
0xC009001E	ERR_PROFIBUS_FSPMS_READ_RESPONSE_NEG The read command cannot be A new Slave Diagnostic command cannot be accepted while a previous one is pending.
0xC009001F	ERR_PROFIBUS_FSPMS_MS1_INIT_WRONG_STATE The acyclic slave state machine cannot be initialized because the state machine is not in "POWER-ON" state.
0xC0090020	ERR_PROFIBUS_FSPMS_ALARM_HANDLER_NOT_STARTED The Alarm Handler state machine has not been started yet, an Alarm cannot be notified.
0xC0090022	ERR_PROFIBUS_FSPMS_ALARM_HANDLER_NOT_ENABLED The requested Type of Alarm is not enabled, this Alarm cannot be notified.
0xC0090023	ERR_PROFIBUS_FSPMS_ALARM_HANDLER_LIMIT_EXPIRED The limit of parallel running alarms has expired, this Alarm cannot be notified.
0xC0090024	ERR_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	WARN_PROFIBUS_FSPMS_NOTREADY_EXPIRED Application is at not ready state.
0xC0090026	ERR_PROFIBUS_FSPMS_WATCHDOG_EXPIRED Watchdog error expired.
0xC0090027	ERR_PROFIBUS_FSPMS_SUBSCRIBER_NOT_CONFIGURED Subscriber with given address not configured.
0xC0090028	ERR_PROFIBUS_FSPMS_SUBSCRIBER_NOT_IN_WSTART_STATE Subscriber in wrong state, state w_start expected.

Hexadecimal value	Definition and description
0xC0090029	ERR_PROFIBUS_FSPMS_SUBSCRIBER_NOT_IN_RUN_STATE Subscriber in wrong state, state run expected.
0xC009002A	ERR_PROFIBUS_FSPMS_CLOCKSYNC_ALREADY_RUNNING ClockSync in wrong state, already running.
0xC009002B	ERR_PROFIBUS_FSPMS_CLOCKSYNC_NOT_RUNNING ClockSync in wrong state, not running.
0xC009002C	ERR_PROFIBUS_FSPMS_RESET_PENDING Reset of FSPMS task is pending.

Table 128: PROFIBUS FSPMS packet status codes

4.6.3 PROFIBUS APS

Hexadecimal value	Definition and description
0xC01D0001	ERR_PROFIBUS_APS_COMMAND_INVALID Invalid command received.
0xC01D0002	ERR_PROFIBUS_APS_ALREADY_CONFIGURED Device is already configured. The new configuration is discarded.
0xC01D0003	ERR_PROFIBUS_APS_NO_CONFIG_DBM No database available.
0xC01D0004	ERR_PROFIBUS_APS_CONFIG_DBM_INVALID Database is invalid.
0xC01D0005	ERR_PROFIBUS_APS_CONFIG_MODULE_LENGTH Module configuration consists invalid length.
0xC01D0006	ERR_PROFIBUS_APS_CFG_DATA_INVALID_LENGTH Configuration data invalid length.
0xC01D0007	ERR_PROFIBUS_APS_CFG_DATA_INCONSISTENT Configuration data inconsistent.
0xC01D0008	ERR_PROFIBUS_APS_CFG_DATA_MAX_IO_LEN_EXCEEDED Configuration data maximum I/O length exceeded.
0xC01D0009	ERR_PROFIBUS_APS_RESET_PENDING Reset of APS task is pending.
0xC01D000A	ERR_PROFIBUS_APS_BAUDRATE_INVALID The specified baudrate option is not supported and is out of range.
0xC01D000B	ERR_PROFIBUS_APS_ADDR_INVALID The specified local PROFIBUS address option is not supported and is out of range.
0xC01D000C	ERR_PROFIBUS_APS_WDG_INVALID TLR_E_PROFIBUS_APS_WDG_INVALID The specified host watchdog time is not supported and is out of range.

Table 129: PROFIBUS APS packet status codes

4.6.4 PROFIBUS Master FSPMM

Hexadecimal value	Definition and description
0xC0380001	ERR_PROFIBUS_FSPMM_COMMAND_INVALID Invalid command received.
0xC0380002	ERR_PROFIBUS_FSPMM_INV_BUSMODE Invalid bus mode for this command.
0xC0380003	ERR_PROFIBUS_FSPMM_RESET FSPMM task is reset.
0xC0380004	ERR_PROFIBUS_FSPMM_ACLR PROFIBUS master is at auto clear state.
0xC0380005	ERR_PROFIBUS_FSPMM_CONTROL_TIMER_EXPIRED Data Control Timer expired. No bus access for sending global control.
0xC0380006	ERR_PROFIBUS_FSPMM_ALARM_OVERFLOW Alarm buffer overflow.
0xC0380007	ERR_PROFIBUS_FSPMM_ALARM_NOT_INIT Alarm handler is not initialized.
0xC0380008	ERR_PROFIBUS_FSPMM_ALARM_NOT_STARTED Alarm handler is not started.
0xC0380009	ERR_PROFIBUS_FSPMM_ALARM_NOT_ENABLED Alarm are disabled.
0xC038000A	ERR_PROFIBUS_FSPMM_ALARM_NOT_PENDING Alarm is not at a pending state.
0xC038000B	ERR_PROFIBUS_FSPMM_ALARM_STATE_ERROR Invalid Alarm state.
0xC038000C	ERR_PROFIBUS_FSPMM_ALARM_SEQ_ERROR Alarm sequence error occurred.
0xC038000D	ERR_PROFIBUS_FSPMM_MSAC1_STATE_ERROR Alarm handler is not at the proper state.
0xC038000E	ERR_PROFIBUS_FSPMM_MSAC1_FAULT Get an alarm acknowledge without an alarm.
0xC038000F	ERR_PROFIBUS_FSPMM_INVALID_AREA_CODE Invalid area code or slave address received.
0xC0380011	ERR_PROFIBUS_FSPMM_IV_DL_DATA_LEN Invalid data length.
0xC0380012	ERR_PROFIBUS_FSPMM_IV_BUS_PRM Invalid bus parameter received.
0xC0380013	ERR_PROFIBUS_FSPMM_IV_SLAVE_PRM Invalid slave parameter received.
0xC0380014	ERR_PROFIBUS_FSPMM_ACK_NO Command cannot executed at the actual bus state.
0xC0380015	ERR_PROFIBUS_FSPMM_ACK_GE Error while sending global control.
0xC0380016	ERR_PROFIBUS_FSPMM_MSAL1_FAULT Failure at alarm handler. Alarm handler is stopped.
0xC0380017	ERR_PROFIBUS_FSPMM_MSAC2_FAULT Failure at MSAC2 handler.
0xC0380018	ERR_PROFIBUS_FSPMM_REJ_SE Device is stopping the communication or not in OPEN state.

Hexadecimal value	Definition and description
0xC0380019	ERR_PROFIBUS_FSPMM_REJ_PS A previous service is still in process.
0xC038001A	ERR_PROFIBUS_FSPMM_REJ_LE Message have an invalid length.
0xC038001B	ERR_PROFIBUS_FSPMM_REJ_IV Invalid parameter at request.
0xC038001C	ERR_PROFIBUS_FSPMM_REJ_ABORT Device aborts DP V1 communication.
0xC038001D	ERR_PROFIBUS_FSPMM_INVALID_SLAVE_ADDRESS Invalid slave address.
0xC038001E	ERR_PROFIBUS_FSPMM_ALREADY_INITIALIZED FSPMM Already initialized.
0xC038001F	ERR_PROFIBUS_FSPMM_INVALID_APPLICATION Command from not registered application.
0xC0380020	ERR_PROFIBUS_FSPMM_DMPMM_IV_STATE Command not allowed in actual state.
0xC0380021	ERR_PROFIBUS_FSPMM_PB_FLAG_ERROR_ACTION_FLAG; Function 'AUTO CLEAR' not supported.
0xC0380022	ERR_PROFIBUS_FSPMM_PB_FLAG_ISO_MODE_MSK; Function 'ISO_MODE' not supported.
0xC0380023	ERR_PROFIBUS_FSPMM_DL_PB_FLAG_ISOM_SYNC; Function 'ISO_MODE_SYNC' not supported.
0xC0380024	ERR_PROFIBUS_FSPMM_DL_PB_FLAG_ISOM_FREEZE; Function 'ISO_MODE_FREEZE' not supported.
0xC0380025	ERR_PROFIBUS_FSPMM_MSAC1_NRS; Negative response received.
0xC0380026	ERR_PROFIBUS_FSPMM_MSALM_ALARM_ACK_NEG; Negative alarm acknowledge response received.

Table 130: PROFIBUS Master FSPMM packet status codes

4.6.5 PROFIBUS Master FSPMM2

Hexadecimal value	Definition and description
0xC0690000	ERR_PROFIBUS_FSPMM2_COMMAND_INVALID Invalid command received.
0xC0690001	ERR_PROFIBUS_FSPMM2_LENGTH_INVALID Invalid data length.
0xC0690002	ERR_PROFIBUS_FSPMM2_NOT_IMPLEMENTED Service not implemented.
0xC0690003	ERR_PROFIBUS_FSPMM2_ADD_INVALID Invalid address.
0xC0690004	ERR_PROFIBUS_FSPMM2_SERVICE_IN_REQUEST Previous service already in request.
0xC0690005	ERR_PROFIBUS_FSPMM2_NOT_IN_OPEN_STATE Connection is not in state open.
0xC0690006	ERR_PROFIBUS_FSPMM2_OUT_OF_RESOURCES Out of resources for new connections.
0xC0690007	ERR_PROFIBUS_FSPMM2_IN_USE Connection to this slave already in use.
0xC0690008	ERR_PROFIBUS_FSPMM2_ALREADY_INIT Stack is already initialized.
0xC0690009	ERR_PROFIBUS_FSPMM2_COM_REFERENCE_INVALID Invalid communication reference.
0xC069000A	ERR_PROFIBUS_FSPMM2_TIMEOUT Timeout error.
0xC069000B	ERR_PROFIBUS_FSPMM2_INITIATE_ABT_STO Parameter Send Timeout too small.
0xC069000C	ERR_PROFIBUS_FSPMM2_INITIATE_ABT_FE Telegram format error.
0xC069000D	ERR_PROFIBUS_FSPMM2_NRS Negative response.
0xC069000E	ERR_PROFIBUS_FSPMM2_ABORT Service Aborted.
0xC0690100	ERR_PROFIBUS_FSPMM2_CON_XX Service confirmation negative.

Table 131: PROFIBUS Master FSPMM2 packet status codes

4.6.6 PROFIBUS Master APM

Hexadecimal value	Definition and description
0xC0390001	ERR_PROFIBUS_APM_COMMAND_INVALID Invalid command received.
0xC0390002	ERR_PROFIBUS_APM_COMMAND_ALREADY_IN_REQUEST Command already in request.
0xC0390003	ERR_PROFIBUS_APM_TIO_RESET_W_MODE_STOP Timeout while stopping PROFIBUS.
0xC0390004	ERR_PROFIBUS_APM_TIO_RESET_W_INIT_FSPMM Timeout while resetting PROFIBUS.
0xC0390005	ERR_PROFIBUS_APM_NON_EXCHANGE_SLAVE No data exchange with at least one slave.
0xC0390006	ERR_PROFIBUS_APM_NON_EXCHANGE_ALL No slave in data exchange.
0xC0390007	ERR_PROFIBUS_APM_CONFIG_LOCK Configuration locked.
0xC0390008	ERR_PROFIBUS_APM_CONFIG_VIA_DBM Already configured via data base.
0xC0390009	ERR_PROFIBUS_APM_ALREADY_CONFIGURED Already configured.
0xC039000A	ERR_PROFIBUS_APM_CHANNEL_INIT_IN_PROGRESS Channel initialization in progress.
0xC039000B	ERR_PROFIBUS_APM_CHANNEL_INIT_FAILED Channel initialization failed.

Table 132: PROFIBUS Master APM packet status codes

4.6.7 PROFIBUS MPI

Hexadecimal value	Definition and description
0xC0670001	ERR_PROFIBUS_MPI_COMMAND_INVALID Invalid command received.
0xC0670002	ERR_PROFIBUS_MPI_INVALID_PACKET_LENGTH Invalid packet length received.
0xC0670005	ERR_PROFIBUS_DATA_CNT Data Counter Error.
0xC0670006	ERR_PROFIBUS_MPI_ILLEGAL_STATION_ADDRESS Station Address is invalid.
0xC0670007	ERR_PROFIBUS_MPI_ILLEGAL_SOCKET_NUMBER Socket number is invalid.
0xC0670008	ERR_PROFIBUS_MPI_COMMUNICATION_ABORTED Communication is aborted by the remote station.
0xC0670009	ERR_PROFIBUS_MPI_COMMUNICATION_REFUSED Communication is refused by the remote station.
0xC067000A	ERR_PROFIBUS_MPI_ERROR_WHILE_BARGAIN_LEN Communication error while bargain max data length.
0xC067000B	ERR_PROFIBUS_MPI_DATA_OUT_OF_ORDER Received packet has wrong sequence number.
0xC067000C	ERR_PROFIBUS_MPI_DISCONNECT_REQUEST Host application has sent a disconnect request.
0xC0670130	ERR_PROFIBUS_MPI_CON_TO Timeout.
0xC0670139	ERR_PROFIBUS_MPI_CON_SE Sequence error.
0xC0670202	ERR_PROFIBUS_MPI_BUS_UNCONFIGURED Bus not configured.
0xC0670203	ERR_PROFIBUS_MPI_ILLEGAL_FUNCTION_NUMBER Invalid function number.
0xC0670204	ERR_PROFIBUS_MPI_RESET_IN_PROGRESS Reset in progress.
0xC0670205	ERR_PROFIBUS_MPI_TOO_MANY_REQ_IN_PROGRESS Too many requests in progress.
0xC0670206	ERR_PROFIBUS_MPI_DENIED_BY_WATCHDOG_TO No Access because of Watchdog Timeout.
0xC0670207	ERR_PROFIBUS_MPI_ILLEGAL_WATCHDOG_TIME Invalid Watchdog time.
0xC0670208	ERR_PROFIBUS_MPI_CON_IN_PROGRESS Connection to Plc in progress.
0xC0670209	ERR_PROFIBUS_MPI_BUS_ALREADY_CONFIGURED Bus already configured.
0xC0670281	ERR_PROFIBUS_MPI_REJ_SE Device stopped communication or is not in Open State.
0xC0670282	ERR_PROFIBUS_MPI_REJ_ABORT Device aborts communication.
0xC0670283	ERR_PROFIBUS_MPI_REJ_PS Previous Service still in Progress

Hexadecimal value	Definition and description
0xC0670284	ERR_PROFIBUS_MPI_REJ_LE Length Error.
0xC0670285	ERR_PROFIBUS_MPI_REJ_IV Specified offset out of limits or not known to remote station.
0xC0670286	ERR_PROFIBUS_MPI_REJ_PDU Wrong PDU coding.
0xC0670287	ERR_PROFIBUS_MPI_REJ_OP Specified Length to read or write out of limits.
0xC0670288	ERR_PROFIBUS_MPI_REJ_HW Specified address not defined in remote station.
0xC0670289	ERR_PROFIBUS_MPI_REJ_MODE Remote station not in right operational Mode.
0xC0670290	ERR_PROFIBUS_MPI_UNKNOWN_ERROR Unknown error.

Table 133: PROFIBUS MPI error codes

4.6.8 PROFIBUS MPI Application Task

Hexadecimal value	Definition and description
0xC0680001	ERR_PROFIBUS_MPI_AP_COMMAND_INVALID Invalid command received.

Table 134: PROFIBUS MPI Application Task error codes

4.7 SmartWire

4.7.1 SmartWire Master

Hexadecimal value	Definition and description
0xC0AD0001	ERR_SMARTWIRE_MASTER_COMMAND_INVALID Invalid command received.
0xC0AD0002	ERR_SMARTWIRE_MASTER_ACYCLIC_JOBID_BUFFER_FULL Acyclic job-id buffer full.
0xC0AD0003	ERR_SMARTWIRE_MASTER_ACYCLIC_JOB_DENIED Acyclic job denied.

Table 135: SmartWire Master

5 Serial protocols

5.1 3964R

5.1.1 3964R

Hexadecimal value	Definition and description
0xC08F0001	ERR_P3964R_COMMAND_INVALID Invalid command received.
0xC08F0002	ERR_P3964R_STACK_PACKET_TOO_LONG Packet is too long.
0xC08F0003	ERR_P3964R_STACK_LED_NOT_SUPPORTED LED is not supported.
0xC08F0004	ERR_P3964R_INIT_CONFLICT_HIGH_PRIO Init conflict, both devices have high priority
0xC08F0005	ERR_P3964R_INIT_CONFLICT_LOW_PRIO Init conflict, both devices have low priority
0xC08F0006	ERR_P3964R_TX_NEG_ACK_TO_CON_CLEARDOWN Transm Error: Negative Ackn at connection cleardown.
0xC08F0007	ERR_P3964R_TX_NEG_ACK_TO_CON_BUILDUP Transm Error: Negative Ackn at connection buildup.
0xC08F0008	ERR_P3964R_TX_TRANSM_ABORT_BY_RECEIVER Transm Error: Transmission aborted by receiver.
0xC08F0009	ERR_P3964R_TX_ACK_TIMEOUT_AT_BUILDUP Transm Error: Ackn timeout at connection buildup.
0xC08F000A	ERR_P3964R_TX_ACK_TIMEOUT_AT_CLEARDOWN Transm Error: Ackn timeout at connection cleardown.
0xC08F001B	ERR_P3964R_TX_DATA_TRANSM_INTERRUPTED Transm Error: Transmission interrupted by receiver.
0xC08F000C	ERR_P3964R_TX_RAND_CHAR_TO_CON_BUILDUP Transm Error: Recvd arbitrary char at connection buildup.
0xC08F000D	ERR_P3964R_TX_RAND_CHAR_TO_CON_CLEARDOWN Transm Error: Recvd arbitrary char at connection cleardown.
0xC08F000E	ERR_P3964R_RX_FRAME_TOO_LONG Recept. Error: Frame too long.
0xC08F000F	ERR_P3964R_RX_DLE_NOT_DOUBLED Recept. Error: DLE not doubled.
0xC08F0010	ERR_P3964R_RX_RANDOM_CHAR_RECV_IN_IDLE Recept. Error: char other than STX received in idle state.
0xC08F0011	ERR_P3964R_RX_CHARACTER_TIMEOUT Recept. Error: Character timeout.
0xC08F0012	ERR_P3964R_RX_CHECKSUM_ERROR Recept. Error: Checksum error(BCC).
0xC08F0013	ERR_P3964R_RX_NO_MEM_SEG_AVAILABLE Recept. Error: No memory segment available.
0xC08F0014	ERR_P3964R_UART_PARITY_ERROR UART parity error.

Hexadecimal value	Definition and description
0xC08F0015	ERR_P3964R_UART_BREAK UART break.
0xC08F0016	ERR_P3964R_UART_FRAME_ERROR UART framing error.
0xC08F0017	ERR_P3964R_UART_OVERRUN UART overrun.

Table 136: 3964R Stack error codes

5.1.2 3964R Application Task

Hexadecimal value	Definition and description
0xC0900001	ERR_P3964R_APP_COMMAND_INVALID Invalid command.
0xC0900002	ERR_P3964R_APP_RINGBUFFER_FULL Ringbuffer full.
0x40900003	ERR_P3964R_APP_RINGBUFFER_EMPTY Ringbuffer empty.
0xC0900004	ERR_P3964R_APP_RINGBUFFER_INIT_ERROR Ringbuffer init error.

Table 137: 3964R Application Task error codes

5.2 ASCII

5.2.1 ASCII

Hexadecimal value	Definition and description
0xC07E0001	ERR_ASCII_COMMAND_INVALID Invalid command received.
0xC07E0002	ERR_ASCII_STACK_DATA_SIZE_INVALID Data size is invalid.
0xC07E0003	ERR_ASCII_STACK_BUSY ASCII stack is busy.
0xC07E0004	ERR_ASCII_STACK_PACKET_TOO_LONG Packet is too long.
0xC07E0005	ERR_ASCII_STACK_DATA_OVERLAPPED Previous data is overwritten.
0xC07E0006	ERR_ASCII_STACK_RESPONSE_TIMEOUT Response timeout expired.
0xC07E0007	ERR_ASCII_STACK_WAITING_RESPONSE ASCII is waiting for response.
0xC07E0008	ERR_ASCII_STACK_LED_NOT_SUPPORTED LED is not supported.
0xC07E0009	ERR_ASCII_STACK_MSG_MODE_DISABLED Message mode is currently disabled.
0xC07E000A	ERR_ASCII_STACK_RECEIVE_MODE_ONLY Receive mode only is allowed.
0xC07E000B	ERR_ASCII_STACK_RX_DATA_WATCHDOG_TIMEOUT Receive Frame Watchdog Timeout.

Table 138: ASCII stack error codes

5.2.2 ASCII AP Task

Hexadecimal value	Definition and description
0xC07F0001	ERR_ASCII_APP_COMMAND_INVALID Invalid command received.

Table 139: ASCII AP Task error codes

5.3 Modbus RTU

5.3.1 Modbus Command Table

Hexadecimal value	Definition and description
0xC06E0001	ERR_MODBUS_RTU_COMMAND_INVALID Invalid command received.
0xC06E0002	ERR_MODBUS_RTU_CONFIG_LOCK Configuration is locked.
0xC06E0003	ERR_MODBUS_RTU_OPEN_DBM_FILE Failed to open configuration database.
0xC06E0004	ERR_MODBUS_RTU_DATASET Failed to open configuration dataset.
0xC06E0005	ERR_MODBUS_RTU_TABLE_GLOBAL Failed to open GLOBAL configuration dataset.
0xC06E0006	ERR_MODBUS_RTU_TABLE_BUS_ON Failed to open BUS_ON configuration dataset.
0xC06E0007	ERR_MODBUS_RTU_SIZE_TABLE_BUS_ON Invalid size of BUS_ON configuration dataset.
0xC06E0008	ERR_MODBUS_RTU_TABLE_MAIN Failed to open MAIN configuration dataset.
0xC06E0009	ERR_MODBUS_RTU_SIZE_TABLE_MAIN Invalid size of MAIN configuration dataset.
0xC06E000A	ERR_MODBUS_RTU_COMMAND_RUNNING Request already running.
0xC06E000B	ERR_MODBUS_RTU_EXCEPTION Global Exception Error.
0xC06E000C	ERR_MODBUS_RTU_TASK_NOT_INIT A command to the task has been rejected because the task has not been, or was incorrectly, initialized.
0xC06E000D	ERR_MODBUS_RTU_SERIAL_INT_OCC The serial interface has already been initialized by another task. Error in the "Communication line" parameter.
0xC06E000E	ERR_MODBUS_RTU_INIT_BAUDRATE Invalid value for the "Baud rate" initialization parameter.
0xC06E000F	ERR_MODBUS_RTU_INIT_PARITY Invalid value for the "Parity" initialization parameter.
0xC06E0010	ERR_MODBUS_RTU_INIT_DATABITS Invalid value for the "Data bits" initialization parameter.
0xC06E0011	ERR_MODBUS_RTU_INIT_STOPBITS Invalid value for the "Stop bits" initialization parameter.
0xC06E0012	ERR_MODBUS_RTU_INIT_RTS_CONTROL Invalid value for the "RTS-Control" initialization parameter.
0xC06E0013	ERR_MODBUS_RTU_INIT_MODE Invalid value for the "Mode" initialization parameter.
0xC06E0014	ERR_MODBUS_RTU_INIT_MODBUS_ADDR Invalid value for the "Modbus address" initialization parameter.
0xC06E0015	ERR_MODBUS_RTU_INIT_TIMEOUT Invalid value for the "Time out" initialization parameter.

Hexadecimal value	Definition and description
0xC06E0016	ERR_MODBUS_RTU_INIT_RETRIES Invalid value for the "Retries" initialization parameter.
0xC06E0017	ERR_MODBUS_RTU_INIT_ERROR_LED Invalid value for the "Error-LED" initialization parameter.
0xC06E0018	ERR_MODBUS_RTU_PARITY The interface controller has detected a parity error.
0xC06E0019	ERR_MODBUS_RTU_FRAMING The interface controller has detected a "Framing error".
0xC06E001A	ERR_MODBUS_RTU_MUCH_LESS_DATA More than 240 user data have been received.
0xC06E001B	ERR_MODBUS_RTU_CRC A CRC error has been determined in the received telegram.
0xC06E001C	ERR_MODBUS_RTU_TIMEOUT_TELEGRAM The coupling partner has not answered within the monitoring time.
0xC06E001D	ERR_MODBUS_RTU_EXCEPTION_UNKNOWN This is an undefined "Exception response code", i.e. 0 or greater than 9 have been received.
0xC06E001E	ERR_MODBUS_RTU_EXCEPTION_1 The accessed Slave has answered with an "Exception response code 1".
0xC06E001F	ERR_MODBUS_RTU_EXCEPTION_2 The accessed Slave has answered with an "Exception response code 2".
0xC06E0020	ERR_MODBUS_RTU_EXCEPTION_3 The accessed Slave has answered with an "Exception response code 3".
0xC06E0021	ERR_MODBUS_RTU_EXCEPTION_4 The accessed Slave has answered with an "Exception response code 4".
0xC06E0022	ERR_MODBUS_RTU_EXCEPTION_5 The accessed Slave has answered with an "Exception response code 5".
0xC06E0023	ERR_MODBUS_RTU_EXCEPTION_6 The accessed Slave has answered with an "Exception response code 6".
0xC06E0024	ERR_MODBUS_RTU_EXCEPTION_7 The accessed Slave has answered with an "Exception response code 7".
0xC06E0025	ERR_MODBUS_RTU_EXCEPTION_8 The accessed Slave has answered with an "Exception response code 8".
0xC06E0026	ERR_MODBUS_RTU_EXCEPTION_9 The accessed Slave has answered with an "Exception response code 9".
0xC06E0027	ERR_MODBUS_RTU_RCV_INV_SLAVE_ADDR The Slave address in the answering telegram is not that of the addressed Slave.
0xC06E0028	ERR_MODBUS_RTU_RCV_INV_FUNC_CODE The function information in the received Modbus telegram does not correspond with the issued function.
0xC06E0029	ERR_MODBUS_RTU_RCV_INV_BYTECOUNT The given data count in the received Modbus telegram (byte count) does not correspond with the transmitted data count.
0xC06E002A	ERR_MODBUS_RTU_RCV_MUCH_LESS_DATA Incorrect data count in the received Modbus telegram.
0xC06E002B	ERR_MODBUS_RTU_RCV_INV_DATA_ADDR Incorrect data address in the received Modbus telegram.
0xC06E002C	ERR_MODBUS_RTU_RCV_INV_DIAG_CODE Only the 0 diagnostic code, i.e. "Loopback test", is permissible.

Hexadecimal value	Definition and description
0xC06E002D	ERR_MODBUS_RTU_TIMEOUT_MESSAGE A time monitoring error has occurred as no answer has arrived from the application program in the parametrized Timeout.
0xC06E002E	ERR_MODBUS_RTU_FUNCTION Invalid Function Code.
0xC06E002F	ERR_MODBUS_RTU_FRAME_NOK There is an invalid reply from the slave.
0xC06E0030	ERR_MODBUS_RTU_CONFIG_BACKUP Creating a backup copy of the warm start parameters did not succeed.
0xC06E0031	ERR_MODBUS_RTU_INIT_ACTIVE There is active stack init.
0xC06E0032	ERR_MODBUS_RTU_INIT_FAILED There is an error while initialization.
0xC06E0033	ERR_MODBUS_RTU_INIT_UART_FAILED There is an error while UART initialization.
0xC06E0034	ERR_MODBUS_RTU_HOST_NOT_REGISTERED The Host application is not registered. All requests from it will be rejected.
0xC06E0035	ERR_MODBUS_RTU_INVALID_DIAG_TYPE The incoming diagnostic type is not valid.
0xC06E0036	ERR_MODBUS_RTU_INIT_WATCHDOG Invalid value for the "Watchdog" initialization parameter.
0xC06E0037	ERR_MODBUS_RTU_INVALID_DBM The downloaded DBM file is not valid.
0xC06E0038	ERR_MODBUS_RTU_INVALID_DEV_ID_LEN The Device ID Length is not valid.
0xC06E0039	ERR_MODBUS_RTU_INVALID_ADDR_SHIFT The Address Shift Value is not valid.
0xC06E003A	ERR_MODBUS_RTU_INVALID_REG_LIMIT The Max limit of the accessed register is not valid.
0xC06E003B	ERR_MODBUS_RTU_INVALID_COIL_LIMIT The Max limit of the accessed coils is not valid.
0xC06E003C	ERR_MODBUS_RTU_STACK_ALREADY_INIT The Stack is already initialized.
0xC06E003D	ERR_MODBUS_RTU_COMM_FLAG_NOT_SET The Communication Flag is not set.
0xC06E003F	ERR_MODBUS_RTU_INIT_CONFIG_FLAGS_VALUE Invalid parameter 'ulConfigFlags'.
0xC06E0040	ERR_MODBUS_RTU_SLAVE_ADDR Requested Slave Address is invalid.
0xC06E0041	ERR_MODBUS_RTU_DATA_ADDR Requested Data Address is invalid.

Table 140: Modbus RTU Task error codes

5.3.2 Modbus RTU Task

Hexadecimal value	Definition and description
0xC06E0001	ERR_MODBUS_RTU_COMMAND_INVALID Invalid command received.
0xC06E0002	ERR_MODBUS_RTU_CONFIG_LOCK Configuration is locked.
0xC06E0003	ERR_MODBUS_RTU_OPEN_DBM_FILE Failed to open configuration database.
0xC06E0004	ERR_MODBUS_RTU_DATASET Failed to open configuration dataset.
0xC06E0005	ERR_MODBUS_RTU_TABLE_GLOBAL Failed to open GLOBAL configuration dataset.
0xC06E0006	ERR_MODBUS_RTU_TABLE_BUS_ON Failed to open BUS_ON configuration dataset.
0xC06E0007	ERR_MODBUS_RTU_SIZE_TABLE_BUS_ON Invalid size of BUS_ON configuration dataset.
0xC06E0008	ERR_MODBUS_RTU_TABLE_MAIN Failed to open MAIN configuration dataset.
0xC06E0009	ERR_MODBUS_RTU_SIZE_TABLE_MAIN Invalid size of MAIN configuration dataset.
0xC06E000A	ERR_MODBUS_RTU_COMMAND_RUNNING Request already running.
0xC06E000B	ERR_MODBUS_RTU_EXCEPTION Global Exception Error.
0xC06E000C	ERR_MODBUS_RTU_TASK_NOT_INIT A command to the task has been rejected because the task has not been, or was incorrectly, initialized.
0xC06E000D	ERR_MODBUS_RTU_SERIAL_INT_OCC The serial interface has already been initialized by another task. Error in the "Communication line" parameter.
0xC06E000E	ERR_MODBUS_RTU_INIT_BAUDRATE Invalid value for the "Baud rate" initialization parameter.
0xC06E000F	ERR_MODBUS_RTU_INIT_PARITY Invalid value for the "Parity" initialization parameter.
0xC06E0010	ERR_MODBUS_RTU_INIT_DATABITS Invalid value for the "Data bits" initialization parameter.
0xC06E0011	ERR_MODBUS_RTU_INIT_STOPBITS Invalid value for the "Stop bits" initialization parameter.
0xC06E0012	ERR_MODBUS_RTU_INIT_RTS_CONTROL Invalid value for the "RTS-Control" initialization parameter.
0xC06E0013	ERR_MODBUS_RTU_INIT_MODE Invalid value for the "Mode" initialization parameter.
0xC06E0014	ERR_MODBUS_RTU_INIT_MODBUS_ADDR Invalid value for the "Modbus address" initialization parameter.
0xC06E0015	ERR_MODBUS_RTU_INIT_TIMEOUT Invalid value for the "Time out" initialization parameter.
0xC06E0016	ERR_MODBUS_RTU_INIT_RETRIES Invalid value for the "Retries" initialization parameter.

Hexadecimal value	Definition and description
0xC06E0017	ERR_MODBUS_RTU_INIT_ERROR_LED Invalid value for the "Error-LED" initialization parameter.
0xC06E0018	ERR_MODBUS_RTU_PARITY The interface controller has detected a parity error.
0xC06E0019	ERR_MODBUS_RTU_FRAMING The interface controller has detected a "Framing error".
0xC06E001A	ERR_MODBUS_RTU_MUCH_LESS_DATA More than 240 user data have been received.
0xC06E001B	ERR_MODBUS_RTU_CRC A CRC error has been determined in the received telegram.
0xC06E001C	ERR_MODBUS_RTU_TIMEOUT_TELEGRAM The coupling partner has not answered within the monitoring time.
0xC06E001D	ERR_MODBUS_RTU_EXCEPTION_UNKNOWN This is an undefined "Exception response code", i.e. 0 or greater than 9 have been received.
0xC06E001E	ERR_MODBUS_RTU_EXCEPTION_1 The accessed Slave has answered with an "Exception response code 1".
0xC06E001F	ERR_MODBUS_RTU_EXCEPTION_2 The accessed Slave has answered with an "Exception response code 2".
0xC06E0020	ERR_MODBUS_RTU_EXCEPTION_3 The accessed Slave has answered with an "Exception response code 3".
0xC06E0021	ERR_MODBUS_RTU_EXCEPTION_4 The accessed Slave has answered with an "Exception response code 4".
0xC06E0022	ERR_MODBUS_RTU_EXCEPTION_5 The accessed Slave has answered with an "Exception response code 5".
0xC06E0023	ERR_MODBUS_RTU_EXCEPTION_6 The accessed Slave has answered with an "Exception response code 6".
0xC06E0024	ERR_MODBUS_RTU_EXCEPTION_7 The accessed Slave has answered with an "Exception response code 7".
0xC06E0025	ERR_MODBUS_RTU_EXCEPTION_8 The accessed Slave has answered with an "Exception response code 8".
0xC06E0026	ERR_MODBUS_RTU_EXCEPTION_9 The accessed Slave has answered with an "Exception response code 9".
0xC06E0027	ERR_MODBUS_RTU_RCV_INV_SLAVE_ADDR The Slave address in the answering telegram is not that of the addressed Slave.
0xC06E0028	ERR_MODBUS_RTU_RCV_INV_FUNC_CODE The function information in the received Modbus telegram does not correspond with the issued function.
0xC06E0029	ERR_MODBUS_RTU_RCV_INV_BYTECOUNT The given data count in the received Modbus telegram (byte count) does not correspond with the transmitted data count.
0xC06E002A	ERR_MODBUS_RTU_RCV_MUCH_LESS_DATA Incorrect data count in the received Modbus telegram.
0xC06E002B	ERR_MODBUS_RTU_RCV_INV_DATA_ADDR Incorrect data address in the received Modbus telegram.
0xC06E002C	ERR_MODBUS_RTU_RCV_INV_DIAG_CODE Only the 0 diagnostic code, i.e. "Loopback test", is permissible.
0xC06E002D	ERR_MODBUS_RTU_TIMEOUT_MESSAGE A time monitoring error has occurred as no answer has arrived from the application program in the parametrized Timeout.

Hexadecimal value	Definition and description
0xC06E002E	ERR_MODBUS_RTU_FUNCTION Invalid Function Code.
0xC06E002F	ERR_MODBUS_RTU_FRAME_NOK There is an invalid reply from the slave.
0xC06E0030	ERR_MODBUS_RTU_CONFIG_BACKUP Creating a backup copy of the warm start parameters did not succeed.
0xC06E0031	ERR_MODBUS_RTU_INIT_ACTIVE There is active stack init.
0xC06E0032	ERR_MODBUS_RTU_INIT_FAILED There is an error while initialization.
0xC06E0033	ERR_MODBUS_RTU_INIT_UART_FAILED There is an error while UART initialization.
0xC06E0034	ERR_MODBUS_RTU_HOST_NOT_REGISTERED The Host application is not registered. All requests from it will be rejected.
0xC06E0035	ERR_MODBUS_RTU_INVALID_DIAG_TYPE The incoming diagnostic type is not valid.
0xC06E0036	ERR_MODBUS_RTU_INIT_WATCHDOG Invalid value for the "Watchdog" initialization parameter.
0xC06E0037	ERR_MODBUS_RTU_INVALID_DBM The downloaded DBM file is not valid.
0xC06E0038	ERR_MODBUS_RTU_INVALID_DEV_ID_LEN The Device ID Length is not valid.
0xC06E0039	ERR_MODBUS_RTU_INVALID_ADDR_SHIFT The Address Shift Value is not valid.
0xC06E003A	ERR_MODBUS_RTU_INVALID_REG_LIMIT The Max limit of the accessed register is not valid.
0xC06E003B	ERR_MODBUS_RTU_INVALID_COIL_LIMIT The Max limit of the accessed coils is not valid.
0xC06E003C	ERR_MODBUS_RTU_STACK_ALREADY_INIT The Stack is already initialized.
0xC06E003D	ERR_MODBUS_RTU_COMM_FLAG_NOT_SET The Communication Flag is not set.
0xC06E003F	ERR_MODBUS_RTU_INIT_CONFIG_FLAGS_VALUE Invalid parameter 'ulConfigFlags'.
0xC06E0040	ERR_MODBUS_RTU_SLAVE_ADDR Requested Slave Address is invalid.
0xC06E0041	ERR_MODBUS_RTU_DATA_ADDR Requested Data Address is invalid.

Table 141: Modbus RTU Task error codes

5.3.3 Modbus RTU Peripheral Task

Hexadecimal value	Definition and description
0xC09E0001	ERR_MBR_COM_PHE_COMMAND_INVALID Invalid command received.
0xC09E0002	ERR_MBR_COM_PHE_INVALID_PARAMETER Invalid parameter received.
0xC09E0003	ERR_MBR_COM_PHE_DATA_TRANSMISSION_INPROGRESS Transmission is in progress.
0xC09E0004	ERR_MBR_COM_PERIPHERAL_UNKNOWN Unknown peripheral type.

Table 142: Modbus RTU Peripheral Task error codes

6 Stack components

6.1 FODMI Task

Hexadecimal value	Definition and description
0xC0960001	ERR_FODMI_TASK_COMMAND_INVALID Command not valid.
0xC0960002	TLR_DIAG_E_FODMI_TASK_INIT_LOCAL_CREATE_QUE_FAILED Failure at create que in init local.
0xC0960003	TLR_DIAG_E_FODMI_TASK_INIT_REMOTE_IDENT_EDD_FAILED Identify EDD (at init remote) failed.
0xC0960004	TLR_DIAG_E_FODMI_TASK_INIT_REMOTE_IDENT_APPLICATION_QUE_FAILED Failure identify the application queue.
0xC0960005	TLR_DIAG_E_FODMI_TASK_EPMAP_RESOURCE_INIT_FAILED Failure at creation of EPMaP

Table 143: FODMI Task

6.2 FTP

6.2.1 FTP Server

Hexadecimal value	Definition and description
0xC0BF0001	ERR_FTP_SERVER_COMMAND_INVALID Invalid command received.
0xC0BF0002	ERR_FTP_SERVER_ACCOUNTS_LOCKED User accounts are locked and cannot be changed.
0xC0BF0003	ERR_FTP_SERVER_NO_SUCH_USER The user account does not exist.

Table 144: FTP Server Stack error codes

6.2.2 FTP Server Application

Hexadecimal value	Definition and description
0xC0C00001	ERR_FTP_SERVER_AP_COMMAND_INVALID Invalid command received.

Table 145: FTP Server Application error codes

6.3 Gateway

6.3.1 Memory Mapping Task

Hexadecimal value	Definition and description
0xC0770001	ERR_MEMMAP_COMMAND_INVALID Invalid command in request detected.
0xC0770002	ERR_MEMMAP_INVALID_SSIO_CONFIG Invalid initialization SSIO Configuration Bytes count.
0xC0770003	ERR_MEMMAP_INVALID_SSIO_STATUS Invalid initialization SSIO Status Bytes count.
0xC0770004	ERR_MEMMAP_INVALID_INPUT_OFFSET Invalid initialization offset in the FB input area.
0xC0770005	ERR_MEMMAP_INVALID_OUTPUT_OFFSET Invalid initialization offset in the FB output area.
0xC0770006	ERR_MEMMAP_INVALID_RESERVED Invalid initialization values for the reserved areas.
0xC0770007	ERR_MEMMAP_INVALID_DIAG_OFFSET Invalid initialization offset for the diagnostic mapping in the FB output area.
0xC0770008	ERR_MEMMAP_INVALID_DIAG_ENTRIES Invalid initialization number of diagnostic entries.
0xC0770009	ERR_MEMMAP_INVALID_COLLISION Collision between diagnostic mapping and the SSIO inputs in the FB output area.

Table 146: Memory Mapping Task

6.3.2 MPI Gateway Task

Hexadecimal value	Definition and description
0xC0780001	ERR_MPI_GATEWAY_COMMAND_INVALID Invalid command.
0xC0780002	ERR_MPI_GATEWAY_NO_RECEIVER_FOR_PACKET Packet could not be assigned to a receiver.
0xC0780003	ERR_MPI_GATEWAY_DISCONNECT_RUNNING The disconnect sequence is already running.

Table 147: MPI Gateway Task

6.3.3 netHOST

Hexadecimal value	Definition and description
0xC0C50001	ERR_NETHOST_COMMAND_INVALID Invalid command received.

Table 148: netHOST error codes

6.3.4 netTAP DPM Bridge

Hexadecimal value	Definition and description
0xC0E40001	ERR_DPM_BRIDGE_COMMAND_INVALID Invalid command received.

Table 149: netTAP DPM Bridge error codes

6.4 Item Server Task

Hexadecimal value	Definition and description
0xC0870001	ERR_ITEM_SERVER_COMMAND_INVALID Invalid command.
0xC0870002	ERR_ITEM_SERVER_GROUP_NOT_DEFINED The requested group is not defined.
0xC0870003	ERR_ITEM_SERVER_NOT_ENOUGH_DYN_MEMORY There is not memory enough to process the request.
0xC0870004	ERR_ITEM_SERVER_ITEM_NOT_DEFINED The requested item is not defined.
0xC0870005	ERR_ITEM_SERVER_TOO_MANY_ITEMS_REQUESTED The maximum number of requested items has been exceeded.
0xC0870006	ERR_ITEM_SERVER_INVALID_ITEM_PARAMETER The item's parameter is not valid.
0xC0870007	ERR_ITEM_SERVER_REQUEST_IN_PROGRESS There is a request in progress.
0xC0870008	ERR_ITEM_SERVER_OUT_OF_IO_MEMORY The sum of all items' data length and status length cannot fit into IO image.
0xC0870009	ERR_ITEM_SERVER_ITEM_ALREADY_APPENDED The requested item has already been appended to the group.
0xC0870010	ERR_ITEM_SERVER_LOCKED_GROUP_ACTIVE The group is Locked/Active.
0xC0870011	ERR_ITEM_SERVER_UNSUPPORTED_DB_FORMAT The database file format is not supported.
0xC0870012	ERR_ITEM_SERVER_INVALID_STATUS_ID The requested info type is invalid.
0xC0870013	ERR_ITEM_SERVER_PROT_STACK_UNINITIALIZED The corresponding protocol stack is not initialized properly.
0xC0870014	ERR_ITEM_SERVER_ITEM_IS_READ_ONLY The requested item is Read-Only.
0xC0870015	ERR_ITEM_SERVER_ITEM_IS_WRITE_ONLY The requested item is Write-Only.
0xC0870016	ERR_ITEM_SERVER_ITEM_IS_INPUT The requested item is Input type.
0xC0870017	ERR_ITEM_SERVER_INVALID_ADMININFO_TYPE Wrong administration info type.
0xC0870018	ERR_ITEM_SERVER_INVALID_CIP_PARAMETER The requested CIP parameter is invalid.
0xC0870019	ERR_ITEM_SERVER_NO_ITEMS_FOUND No items have been found in database.
0xC087001A	ERR_ITEM_SERVER_PROT_STACK_READY_FLAG_NOT_SET The READY flag of the corresponding protocol is not set.
0xC087001B	ERR_ITEM_SERVER_PROT_STACK_RUN_FLAG_NOT_SET The RUN flag of the corresponding protocol is not set.
0xC087001C	ERR_ITEM_SERVER_PROT_STACK_COM_FLAG_NOT_SET The COM flag of the corresponding protocol is not set.
0xC087001D	ERR_ITEM_SERVER_PROT_STACK_IO_EXCHANGE_ERR Cyclic exchange with protocol stack failed.

Hexadecimal value	Definition and description
0xC087001E	ERR_ITEM_SERVER_BAD_ITEM_STATUS The status of requested item is not valid.
0xC087001F	ERR_ITEM_SERVER_UNSUPPORTED_ITEM_STATUS_LEN Signal status length not valid.
0xC0870020	ERR_ITEM_SERVER_SRCLEN_NOT_EQUALTO_DPMLLEN The destination and source lengths of an item are not equal.
0xC0870021	ERR_ITEM_SERVER_SIGNAL_STATUS_PATH_FORMAT Signal status path format is not valid.
0xC0870022	ERR_ITEM_SERVER_ITEM_IS_COMMON_STATUS The requested item is Common-Status-Type.
0xC0870023	ERR_ITEM_SERVER_UNKNOWN_PROT_STACK_CONF_NAME Unknown name of protocol configuration file.
0xC0870024	ERR_ITEM_SERVER_UNKNOW_CONF_MD5_CHECKSUM Invalid database MD5 check sum.

Table 150: Item Server Task

6.5 netIC IoT Base Firmware Application Task

Hexadecimal value	Definition and description
0xC0EC0001	ERR_BASEFW_AP_BYTES_TOO_MANY Bytes requested will not fit the packet buffer.
0xC0EC0002	ERR_BASEFW_AP_INVALID_DEVICE_ID Invalid device id.
0xC0EC0003	ERR_BASEFW_AP_AREA_BEYOND_DEVICE_LIMITS Trying to access non-existent address.
0xC0EC0004	ERR_BASEFW_AP_INVALID_RESERVED_VALUE Reserved value must be all zero.
0xC0EC0005	ERR_BASEFW_AP_NO_BYTES Data bytes expected.
0xC0EC0006	ERR_BASEFW_AP_AREA_IS_WRITE_PROTECTED Trying to write to a write protected area.
0xC0EC0007	ERR_BASEFW_AP_FLASH_SIZE_NOT_EXPECTED Flash device size is not supported.
0xC0EC0008	ERR_BASEFW_AP_OPERATION_NOT_SUPPORTED The operation is not supported.

Table 151: NetIC IoT Base Firmware Application Task

6.6 netIC SSIO Task

Hexadecimal value	Definition and description
0xC0750001	ERR_SSIO_COMMAND_INVALID Invalid command in request detected.
0xC0750002	ERR_SSIO_NOT_INIT Initialization GPIOs error.
0xC0750003	ERR_SSIO_INVALID_SYSTEM_FLAGS Invalid initialization System flags value.
0xC0750004	ERR_SSIO_INVALID_WDG Invalid initialization Watchdog value.
0xC0750005	ERR_SSIO_INVALID_OUTPUTS Invalid initialization Output bytes value.
0xC0750006	ERR_SSIO_INVALID_INPUTS Invalid initialization Input bytes value.
0xC0750007	ERR_SSIO_INVALID_BAUDRATE Invalid initialization Baud rate value.
0xC0750008	ERR_SSIO_INVALID_CONFIG_FLAGS Invalid initialization Config flags value.
0xC0750009	ERR_SSIO_INVALID_RESERVED Invalid command in request detected.
0xC075000A	ERR_SSIO_INVALID_MODE Invalid initialization Mode Value.
0xC075000B	ERR_SSIO_INVALID_ADDRESS Invalid initialization Address Value.
0xC075000C	ERR_SSIO_FO_INIT_EDD_FAILED FO EDD driver initialization failed.
0xC075000D	ERR_SSIO_FO_INIT_STA2GRN_LED_FAILED FO status led initialization failed.
0xC075000E	ERR_SSIO_FO_INIT_STA2RED_LED_FAILED FO status led initialization failed.
0xC075000F	ERR_SSIO_FO_INIT_DIAG_TIMER_FAILED FO Diag. timer initialization failed.
0xC0750010	ERR_SSIO_FO_INIT_LED_TIMER_FAILED FO LED timer initialization failed.
0xC0750011	ERR_SSIO_FO_INIT_I2C_DRIVER_INI_FAILED FO I2C driver initialization failed.
0xC0750012	ERR_SSIO_FO_INIT_IDENTIFY_GPIO_FAILED FO GPIO driver identify failed.
0xC0750013	ERR_SSIO_FO_INIT_INITIALIZE_GPIO_FAILED FO GPIO driver initialization failed.
0xC0750014	ERR_SSIO_FO_INIT_IDENTIFY_MMIO_FAILED FO MMIO identify failed.
0xC0750015	ERR_SSIO_FO_INIT_IDENTIFY_LED_FAILED FO LED identify failed.
0xC0750016	ERR_SSIO_FO_INIT_INITIALIZE_LED_FAILED FO LED initialization failed.
0xC0750017	ERR_SSIO_FO_INIT_UNKNOWN_LED_FAILED FO LED initialization failed.

Hexadecimal value	Definition and description
0xC0750018	ERR_SSIO_FO_INIT_MMIO_NOT_VALID FO MMIO table is not valid.
0xC0750019	ERR_SSIO_FO_IDENT_APPLICATION_QUE_FAILED FO Application queue identification failed.

Table 152: netIC SSIO Task

6.7 netScript Task

Hexadecimal value	Definition and description
0xC0800001	ERR_NETSCRIPT_COMMAND_INVALID Invalid command received.
0xC0800002	ERR_NETSCRIPT_OUTOFMEMORY Memory allocation failure in netSCRIPT task.
0xC0800080	ERR_NETSCRIPT_LUA_OPEN_FAIL Initialization of interpreter (lua_open) failed.
0xC0800081	ERR_NETSCRIPT_NO_SCRIPT No script found or script file could not be loaded.
0xC0800082	ERR_NETSCRIPT_NO_CYCLIC_FN The value of __CYCLIC_FUNCTION is not a function.
0xC0800083	ERR_NETSCRIPT_LUA_ERROR_HANDLER_FAILED An error occurred inside an error handler.
0xC0800084	ERR_NETSCRIPT_LUA_OUTOFMEMORY Memory allocation failure in interpreter.
0xC0800085	ERR_NETSCRIPT_LUA_PANIC A Lua panic occurred.
0xC0800101	ERR_NSC_LUA_ERROR An error was raised by Lua. See extended diagnosis.
0xC0800201	ERR_NSC_PORT_INVALID_CONFIG Port: Invalid configuration parameter.
0xC0800202	ERR_NSC_PORT_INVALID_PORT Port: HAL was called with an invalid port number.
0xC0800203	ERR_NSC_PORT_WRONG_MODE Port: Char mode function called in block mode, or vice versa.
0x40800204	ERR_NSC_PORT_FIFO_EMPTY Port: A FIFO is empty or does not contain as many entries as requested.
0x40800205	ERR_NSC_PORT_FIFO_FULL Port: A FIFO is full or does not have enough space to accept the input.
0xC0800206	ERR_NSC_PORT_XC_INIT_FAILED Port: An error occurred while loading/initializing.
0x40800210	ERR_NSC_PORT_NO_BUFFER Port: No internal RAM buffers available for block mode operation.
0x40800211	ERR_NSC_PORT_NO_SUCH_PORT Port: The requested port instance does not exist.
0x40800212	ERR_NSC_PORT_ALREADY_OPEN Port: Tried to open a port instance which is already open.
0xC0800213	ERR_NSC_PORT_NOT_OPEN Port: Tried to call a function on a port which is not open.
0xC0800214	ERR_NSC_PORT_NO_UARTDB Port: Could not read UART config database.
0xC0800215	ERR_NSC_PORT_PARSING_UARTDB Port: Error parsing UART config database.
0x40800216	ERR_NSC_PORT_INVALID_PARAMETER Port: A function argument is of the wrong type, or its value is outside the allowed range.
0x40800217	ERR_NSC_PORT_NO_CONFIRMATION Port: There is no confirmation of the requested type available.

Hexadecimal value	Definition and description
0x40800218	ERR_NSC_PORT_STRING_TOO_LONG Port: The string passed to PortSend/PortExchange is too long.
0x40800301	ERR_NSC_BUSIO_NO_SUCH_INSTANCE BusIO: The requested instance does not exist.
0x40800302	ERR_NSC_BUSIO_INSTANCE_IN_USE BusIO: The requested instance is already in use.
0xC0800303	ERR_NSC_BUSIO_INVALID_CONFIG BusIO: An invalid configuration parameter was passed.
0xC0800304	ERR_NSC_BUSIO_NOT_OPEN BusIO: A function was called on an instance which is not open or was closed.
0xC0800305	ERR_NSC_BUSIO_INVALID_PARAMETER BusIO: An invalid parameter was passed.
0xC0800306	ERR_NSC_BUSIO_WRONG_MODE BusIO: Direct mode function called in Ascii mode, or vice versa.
0x40800311	ERR_NSC_BUSIO_NO_RX_ACK BusIO Write: Input buffer not ready.
0x40800312	ERR_NSC_BUSIO_NO_RX_EN BusIO Write: Sending not enabled (RxEnableCmd not set).
0x40800313	ERR_NSC_BUSIO_STRING_TOO_LONG BusIO Write: String too long for send buffer. Read: Invalid length in header.
0x40800314	ERR_NSC_BUSIO_BUFFER_LENGTH_EXCEEDED BusIO ReadDirect/WriteDirect: Invalid offset or length.
0x40800321	ERR_NSC_BUSIO_NO_TX_CMD BusIO Read: No new data available.
0x40800322	ERR_NSC_BUSIO_NO_TX_EN BusIO Read: Reading not enabled (TxEnableCmd not set).
0x40800323	ERR_NSC_BUSIO_HEADER_ERROR BusIO Read: Error in header (Byte count?).
0xC0800401	ERR_NSC_UTIL_INVALID_PARAMETER util: Invalid parameter value (e.g. target type, endianness, LED identifier).
0x40800402	ERR_NSC_UTIL_OUT_OF_RANGE util: Number to convert is outside value range of target type.
0x40800403	ERR_NSC_UTIL_WRONG_SIZE util: Length of string to convert does not match target type.
0xC0800410	ERR_NSC_DB_UNKNOWN_TYPE Unknown variable type in variable NXD file.
0xC0800411	ERR_NSC_DB_STRING_TOO_LONG String length in variable nxd file is too large.
0xC0800601	ERR_NSC_CAN_NO_SUCH_PORT CAN: Interface not available.
0xC0800602	ERR_NSC_CAN_NOT_OPEN CAN: Tried to use an instance which has been closed.
0xC0800603	ERR_NSC_CAN_ALREADY_OPEN CAN: Tried to open an instance which was already open.
0xC0800604	ERR_NSC_CAN_BUS_ON CAN: Tried to reconfigure (acceptance mask) while active.
0xC0800605	ERR_NSC_CAN_WRONG_MODE CAN: Acceptance mask not supported in CAN 2.0A mode.

Hexadecimal value	Definition and description
0xC0800606	ERR_NSC_CAN_INVALID_CONFIG CAN: Invalid configuration parameter.
0xC0800607	ERR_NSC_CAN_NO_CONFIGDB CAN: Config table could not be found/read.
0xC0800608	ERR_NSC_CAN_PARSING_CONFIGDB CAN: Config table could not be parsed.
0xC0800609	ERR_NSC_CAN_INVALID_PARAMETER CAN: Invalid parameter (wrong type or out of range).

Table 153: netScript Task error codes

6.8 netPROXY

6.8.1 netPROXY Core Runtime

Hexadecimal value	Definition and description
0xC0B50200	ERR_NET_PROXY_UNEXPECTED Unexpected failure.
0xC0B50201	ERR_NET_PROXY_OUT_OF_MEMORY Out of memory.
0xC0B50202	ERR_NET_PROXY_RESOURCE_CREATE_FAILED Out of resources, the creation of a resource has failed.
0xC0B50203	ERR_NET_PROXY_INVALID_HANDLE Invalid handle.
0xC0B50204	ERR_NET_PROXY_INVALID_FUNCTION_PARAMETER The function call contains invalid parameters.
0xC0B50205	ERR_NET_PROXY_FUNCTION_PARAMETER_OUT_OF_RANGE A given function parameters is out of range.
0xC0B50206	ERR_NET_PROXY_INITIALIZE_FAILED Initialization failed.
0xC0B50207	ERR_NET_PROXY_ALREADY_INITIALIZE Already initialized.
0xC0B50208	ERR_NET_PROXY_INTERACE_ALREADY_EXISTS Interface already exists.
0xC0B50209	ERR_NET_PROXY_INTERFACE_DOES_NOT_EXIST Interface does not exist.
0xC0B5020A	ERR_NET_PROXY_INTERFACE_IS_IN_USE Interface is in use.
0xC0B5020B	ERR_NET_PROXY_INTERFACE_HANDLE_IS_IN_USE Interface handle is in use.
0xC0B5020C	ERR_NET_PROXY_OBJECT_ALREADY_EXISTS Object already exists.
0xC0B5020D	ERR_NET_PROXY_OBJECT_DOES_NOT_EXIST Object does not exist.
0xC0B5020E	ERR_NET_PROXY_OBJECT_IS_IN_USE Object is in use.
0xC0B5020F	ERR_NET_PROXY_OBJECT_DESCRIPTION_ALREADY_EXISTS Object description already exists.
0xC0B50210	ERR_NET_PROXY_OBJECT_DESCRIPTION_DOES_NOT_EXIST Object description does not exist.
0xC0B50211	ERR_NET_PROXY_OBJECT_DESCRIPTION_IS_IN_USE Object description is in use.
0xC0B50212	ERR_NET_PROXY_ELEMENT_DOES_NOT_EXIST Element does not exist.
0xC0B50213	ERR_NET_PROXY_ELEMENT_READ_ACCESS_DENIED Element/Object could not be read, access was denied. Refer object documentation for more information.
0xC0B50214	ERR_NET_PROXY_ELEMENT_WRITE_ACCESS_DENIED Element/Object could not be written, access was denied. Refer object documentation for more information.

Hexadecimal value	Definition and description
0xC0B50215	ERR_NET_PROXY_INSTANCE_DOES_NOT_EXIST Instance does not exist.
0xC0B50216	ERR_NET_PROXY_ELEMENT_READ_NOT_POSSIBLE_INVALID_STATE Element/Object could not be read, invalid state. Refer object documentation for more information.
0xC0B50217	ERR_NET_PROXY_ELEMENT_WRITE_NOT_POSSIBLE_INVALID_STATE Element/Object could not be written, invalid state. Refer object documentation for more information.
0xC0B50218	ERR_NET_PROXY_ELEMENT_READ_ONLY Element/Object could not be written, object/element is read only.
0x40B50219	INFO_NET_PROXY_NOT_IMPLEMENTED The requested functionality is not implemented.
0xC0B5021A	ERR_NET_PROXY_PACKAGE_ALREADY_EXISTS Package already exists.
0xC0B5021B	ERR_NET_PROXY_OBJECT_STRUCTURE_MISMATCH Object structure mismatch.

Table 154: netPROXY Core runtime

6.8.2 netPROXY Host Interface

Hexadecimal value	Definition and description
0xC0C20001	ERR_NPXPACKAGE_HIF_STARTUP_PARAMETER_VERSION_INVALID Startup parameter version is invalid.
0xC0C20002	ERR_NPXPACKAGE_HIF_INVALID_FUNCTION_PARAMETER Invalid parameter passed to function.
0xC0C20003	ERR_NPXPACKAGE_HIF_RESOURCE_NOT_INITIALIZED Resource not initialized.
0xC0C20004	ERR_NPXPACKAGE_HIF_DUPLICATE_RESOURCE Duplicate resource.
0xC0C20005	ERR_NPXPACKAGE_HIF_NO_FREE_RESOURCE No free resource available.
0xC0C20006	ERR_NPXPACKAGE_HIF_INTERFACE_NOT_FOUND Interface not found.
0xC0C20007	ERR_NPXPACKAGE_HIF_CREATE_MUTEX Failed to create Mutex.
0xC0C20008	ERR_NPXPACKAGE_HIF_TRIGGER_CONFIGURATION_INVALID Trigger configuration invalid.
0xC0C20009	ERR_NPXPACKAGE_HIF_MAPPING_EXCEEDS_BUFFER Mapped entry exceeds buffer.
0xC0C2000A	ERR_NPXPACKAGE_HIF_NO_VALID_MAPPING No valid mapping configured.
0xC0C2000B	ERR_NPXPACKAGE_HIF_MAPPING_ENTRY_NOT_FOUND Mapping entry not found.
0xC0C2000C	ERR_NPXPACKAGE_HIF_DATA_BLOCK_CONFIGURATION_INVALID Configuration for data block is invalid.
0xC0C2000D	ERR_NPXPACKAGE_HIF_DATA_IMAGE_EXCEEDS_BUFFER_SIZE Data image size exceeds buffer size.
0xC0C2000E	ERR_NPXPACKAGE_HIF_BUFFER_POINTER_INVALID Buffer pointer invalid.
0xC0C2000F	ERR_NPXPACKAGE_HIF_INVALID_DPM_CHANNEL_CONFIGURED Invalid dual-port-memory channel configured.
0xC0C20010	ERR_NPXPACKAGE_HIF_HANDSHAKE_CONFIGURATION_INVALID Handshake configuration invalid.
0xC0C20011	ERR_NPXPACKAGE_HIF_CREATE_THREAD Failed to create thread.
0xC0C20012	ERR_NPXPACKAGE_HIF_NO_CONFIGURATION_PARAMETER No configuration.
0xC0C20013	ERR_NPXPACKAGE_HIF_MISSING_WORKER_HANDLES Worker handles are not configured.
0xC0C20014	ERR_NPXPACKAGE_HIF_MISSING_FIRMWARE_IDENTIFICATION Firmware identification is not configured.
0xC0C20015	ERR_NPXPACKAGE_HIF_CREATE_TIMER Failed to create timer.
0xC0C20016	ERR_NPXPACKAGE_HIF_OBJECT_LIST_ALREADY_CONFIGURED Object list is already configured.
0xC0C20017	ERR_NPXPACKAGE_HIF_OBJECT_SIZE_EXCEEDS_MAX_SIZE Object size exceeds maximum size.

Hexadecimal value	Definition and description
0xC0C20018	ERR_NPXPACKAGE_HIF_MAXIMUM_MAPPING_OBJECT_EXCEEDED Number of mapped object exceeds number of possible objects.
0xC0C20019	ERR_NPXPACKAGE_HIF_SIZE_OF_OBJECT_NOT_FIT_IN_BUFFER Size of object exceeds size of buffer.
0xC0C2001A	ERR_NPXPACKAGE_HIF_STRING_NOT_FIT_IN_BUFFER String does not fit in buffer.
0xC0C2001B	ERR_NPXPACKAGE_HIF_FRAGMENTATION_BUFFER_SIZE_CONFIG Invalid configuration for fragmentation buffer size.
0xC0C2001C	ERR_NPXPACKAGE_HIF_FRAGMENTATION_TIMEOUT_CONFIG Invalid configuration for fragmentation timeout supervision.
0xC0C2001D	ERR_NPXPACKAGE_HIF_OBJECT_SIZE_DOES_NOT_MATCH Object size does not match.
0xC0C2001E	ERR_NPXPACKAGE_HIF_BEHAVIOROBJECT_RESPONSE_TIMEOUT_CONFIG Invalid configuration for response timeout supervision in the behavior object.
0xC0C2001F	ERR_NPXPACKAGE_HIF_BEHAVIOROBJECT_TIMEOUT Timeout has occurred while waiting for response to read or write the behavior object indication.
0xC0C20020	ERR_NPXPACKAGE_HIF_BEHAVIOROBJECT_ACCESS_LOCKED Access to the behavior object is temporarily locked by another application.
0xC0C20021	ERR_NPXPACKAGE_HIF_FRAGMENTATION_SIMULTANEOUS_SERVICES_CONFIG Invalid configuration for simultaneous fragmentation services.

Table 155: netPROXY Host Interface

6.8.3 netPROXY EtherNet/IP Adapter

Hexadecimal value	Definition and description
0xC0C30001	ERR_NPXPACKAGE_EIS_MISSING_CONFIG_PARAM No configuration parameters have been provided at startup of the package.
0xC0C30002	ERR_NPXPACKAGE_EIS_WORKER_CONTEXT_MISSING There was no valid worker handle provided with the startup parameters of the package.
0xC0C30003	ERR_NPXPACKAGE_EIS_WRONG_CONFIG_PARAM_VERSION Invalid parameter version in startup parameters of package.
0xC0C30005	ERR_NPXPACKAGE_EIS_INPUT_TRIGGER_SOURCE_NOT_SUPPORTED Configured input trigger source is not supported.
0xC0C30006	ERR_NPXPACKAGE_EIS_OUTPUT_TRIGGER_SOURCE_NOT_SUPPORTED Configured output trigger source is not supported.
0xC0C30007	ERR_NPXPACKAGE_EIS_NO_MAC_ADDRESS_AVAILABLE No MAC address available.
0xC0C30008	ERR_NPXPACKAGE_EIS_NUMBER_OF_ETHERNET_INSTANCES_IS_NOT_EQUAL_TO_NUMBER_OF_ETHERNET_PORTS Number of Ethernet object instances is not equal to the number of physically available Ethernet ports.
0xC0C30009	ERR_NPXPACKAGE_EIS_NO_FREE_EXPLICIT_SERVICE_HANDLER_AVAILABLE No free explicit service handler available.
0xC0C3000A	ERR_NPXPACKAGE_EIS_TOO_MUCH_DATA_PROVIDED_WITH_EXPLICIT_SERVICE The provided explicit service data exceeds the maximum number of data that can be handled.
0xC0C3000B	ERR_NPXPACKAGE_EIS_STARTING_OF_EXPLICIT_SERVICE_JOB_FAILED Starting of the service that shall process the explicit service failed.
0xC0C3000C	ERR_NPXPACKAGE_EIS_USER_CIP_OBJECT_ID_OUT_OF_RANGE The object ID for the user CIP object exceeds the maximum value.
0xC0C3000D	ERR_NPXPACKAGE_EIS_USER_CIP_OBJECT_ID_ALREADY_EXISTS The CIP object with the given ID already exists inside the EtherNet/IP stack.
0xC0C3000E	ERR_NPXPACKAGE_EIS_USER_CIP_OBJECT_ID_COULD_NOT_BE_REGISTERED_AT_STACK The user CIP object could not be registered at the EtherNet/IP stack.
0xC0C3000F	ERR_NPXPACKAGE_EIS_NO_RESOURCES_AVAILABLE_FOR_USER_CIP_OBJECT There is no more resource available to handle the user CIP object.
0xC0C30010	ERR_NPXPACKAGE_EIS_COULD_NOT_GET_MDI_SETTINGS_FROM_STACK Reading MDI setting from EtherNet/IP stack failed.
0xC0C30011	ERR_NPXPACKAGE_EIS_COULD_NOT_GET_PHY_HANDLE_FROM_DRVETH Obtaining the PHY handle from the DrvEth component failed.
0xC0C30012	ERR_NPXPACKAGE_EIS_COULD_NOT_GET_INFO_FROM_DRVETH IOCTL command DRV_ETH_IOCTL_GET_INFO failed.
0xC0C30013	ERR_NPXPACKAGE_EIS_COMMUNICATION_CONTROL_COMMAND_NOT_SUPPORTED The communication control command is not supported by the npx-Adapter.
0xC0C30014	ERR_NPXPACKAGE_EIS_RESET_ALREADY_IN_PROGRESS There is already a reset in progress.
0xC0C30015	ERR_NPXPACKAGE_EIS_INVALID_INPUT_OUTPUT_TRIGGER_TIME_VALUE The startup parameters of the package hold an invalid parameter value for ulInputOutputTriggerTime.
0xC0C30016	ERR_NPXPACKAGE_EIS_COULD_NOT_CREATE_TIMER_FOR_INPUT_OUTPUT_TRIGGER The timer that is used for triggering update of the input/output data (bus triggered) could not be created.

Hexadecimal value	Definition and description
0xC0C30017	ERR_NPXPACKAGE_EIS_COULD_NOT_START_TIMER_FOR_INPUT_OUTPUT_TRIGGER The timer that is used for triggering update of the input/output data (bus triggered) could not be started.
0xC0C30018	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_VENDOR_ID_OF_IDENTITY_OBJECT An error occurred when writing to attribute 1 (Vendor ID) of the CIP Identity object.
0xC0C30019	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_DEVICE_TYPE_OF_IDENTITY_OBJECT An error occurred when writing to attribute 2 (Device Type) of the CIP Identity object.
0xC0C3001A	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_PRODUCT_CODE_OF_IDENTITY_OBJECT An error occurred when writing to attribute 3 (Product Code) of the CIP Identity object.
0xC0C3001B	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_REVISION_OF_IDENTITY_OBJECT An error occurred when writing to attribute 4 (Revision) of the CIP Identity object.
0xC0C3001C	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_SERIAL_NUMBER_OF_IDENTITY_OBJECT An error occurred when writing to attribute 6 (Serial Number) of the CIP Identity object.
0xC0C3001D	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_PRODUCT_NAME_OF_IDENTITY_OBJECT An error occurred when writing to attribute 7 (Product Name) of the CIP Identity object.
0xC0C3001E	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_2_OF_QOS_OBJECT An error occurred when writing to attribute 2 of the CIP QoS object.
0xC0C3001F	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_3_OF_QOS_OBJECT An error occurred when writing to attribute 3 of the CIP QoS object.
0xC0C30020	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_4_OF_QOS_OBJECT An error occurred when writing to attribute 4 of the CIP QoS object.
0xC0C30021	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_5_OF_QOS_OBJECT An error occurred when writing to attribute 5 of the CIP QoS object.
0xC0C30022	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_6_OF_QOS_OBJECT An error occurred when writing to attribute 6 of the CIP QoS object.
0xC0C30023	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_7_OF_QOS_OBJECT An error occurred when writing to attribute 7 of the CIP QoS object.
0xC0C30024	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_8_OF_QOS_OBJECT An error occurred when writing to attribute 8 of the CIP QoS object.
0xC0C30025	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_2_OF_TCPIP_OBJECT An error occurred when writing to attribute 2 of the CIP TCP/IP object.
0xC0C30026	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_3_OF_TCPIP_OBJECT An error occurred when writing to attribute 3 of the CIP TCP/IP object.
0xC0C30027	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_5_OF_TCPIP_OBJECT An error occurred when writing to attribute 5 of the CIP TCP/IP object.
0xC0C30028	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_6_OF_TCPIP_OBJECT An error occurred when writing to attribute 6 of the CIP TCP/IP object.
0xC0C30029	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_8_OF_TCPIP_OBJECT An error occurred when writing to attribute 8 of the CIP TCP/IP object.
0xC0C3002A	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_9_OF_TCPIP_OBJECT An error occurred when writing to attribute 9 of the CIP TCP/IP object.
0xC0C3002B	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_10_OF_TCPIP_OBJECT An error occurred when writing to attribute 10 of the CIP TCP/IP object.
0xC0C3002C	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_11_OF_TCPIP_OBJECT An error occurred when writing to attribute 11 of the CIP TCP/IP object.

Hexadecimal value	Definition and description
0xC0C3002D	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_12_OF_TCPIP_OBJECT An error occurred when writing to attribute 12 of the CIP TCP/IP object.
0xC0C3002E	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_13_OF_TCPIP_OBJECT An error occurred when writing to attribute 13 of the CIP TCP/IP object.
0xC0C3002F	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_1_OF_TCPIP_OBJECT An error occurred when writing to attribute 1 of the CIP TCP/IP object.
0xC0C30030	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_6_OF_ETHERNET_LINK_OBJECT An error occurred when writing to attribute 6 of the CIP Ethernet Link object.
0xC0C30031	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_9_OF_ETHERNET_LINK_OBJECT An error occurred when writing to attribute 9 of the CIP Ethernet Link object.
0xC0C30032	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_ATTRIBUTE_300_OF_ETHERNET_LINK_OBJECT An error occurred when writing to attribute 300 of the CIP Ethernet Link object.
0xC0C30033	ERR_NPXPACKAGE_EIS_MAX_SIZE_WITHIN_ASSEMBLY_DESCRIPTOR_EXCEEDS_MAX_VALUE The MaxSize field within a assembly descriptor instance exceeds the maximum value.
0xC0C30034	ERR_NPXPACKAGE_EIS_INVALID_ASSEMBLY_INSTANCE_WITHIN_ASSEMBLY_DESCRIPTOR Invalid assembly instance number within assembly descriptor configuration.
0xC0C30035	ERR_NPXPACKAGE_EIS_COULD_NOT_CREATE_IO_INSTANCE_DURING_ASSEMBLY_CONFIGURATION Could not create an IO instance (Hilscher specific CIP object) during assembly configuration.
0xC0C30036	ERR_NPXPACKAGE_EIS_COULD_NOT_CREATE_ASSEMBLY_INSTANCE Could not create Assembly Instance.
0xC0C30037	ERR_NPXPACKAGE_EIS_COULD_NOT_CREATE_ASSEMBLY_MEMBER Could not create Assembly member.
0xC0C30038	ERR_NPXPACKAGE_EIS_COULD_NOT_CONFIGURE_PREDEFINED_CONNECTIONS Could not configure predefined connections.
0xC0C30039	ERR_NPXPACKAGE_EIS_INSUFFICIENT_MEMORY_FOR_IO_IMAGE Insufficient memory for IO image.
0xC0C3003A	ERR_NPXPACKAGE_EIS_COULD_NOT_QUEUE_COMMUNICATION_INTERFACE_COMMAND Could not queue communication interface command.
0xC0C3003B	ERR_NPXPACKAGE_EIS_COULD_NOT_QUEUE_UPDATE_INPUT_DATA_EVENT Could not queue update input data event.
0xC0C3003C	ERR_NPXPACKAGE_EIS_OVERLAPPING_UPDATE_INPUT_DATA_EVENTS Update input data events overlapped.
0xC0C3003D	ERR_NPXPACKAGE_EIS_INPUT_DATA_EVENT_OCCURED_WHILE_UNCONFIGURED Update input data events occurred while no configuration was available.
0xC0C3003E	ERR_NPXPACKAGE_EIS_COULD_NOT_QUEUE_UPDATE_OUTPUT_DATA_EVENT Could not queue update output data event.
0xC0C3003F	ERR_NPXPACKAGE_EIS_OVERLAPPING_UPDATE_OUTPUT_DATA_EVENTS Update output data events overlapped.
0xC0C30040	ERR_NPXPACKAGE_EIS_OUTPUT_DATA_EVENT_OCCURED_WHILE_UNCONFIGURED Update output data events occurred while no configuration was available.

Table 156: netPROXY EtherNet/IP Adapter

6.8.4 netPROXY OD V3

Hexadecimal value	Definition and description
0xC0D80001	ERR_NPXP_PACKAGE_ODV3_NOT_CONFIGURED No configuration parameters have been provided.
0xC0D80002	ERR_NPXP_PACKAGE_ODV3_CREATE_THREAD Failed to create thread.
0xC0D80003	ERR_NPXP_PACKAGE_ODV3_NO_FREE_INSTANCE No free instance.
0xC0D80004	ERR_NPXP_PACKAGE_ODV3_NO_CONFIGURATION_PARAMETER No configuration.
0xC0D80005	ERR_NPXP_PACKAGE_ODV3_STARTUP_PARAMETER_VERSION_INVALID Startup parameter version is invalid.
0xC0D80006	ERR_NPXP_PACKAGE_ODV3_UNSUPPORTED_ACCESS Unsupported access.
0xC0D80007	ERR_NPXP_PACKAGE_ODV3_INVALID_FUNCTION_PARAMETER Invalid parameter passed to function.
0xC0D80008	ERR_NPXP_PACKAGE_ODV3_INTERFACE_NOT_FOUND Interface not found.
0xC0D80009	ERR_NPXP_PACKAGE_ODV3_FUNCTION_NOT_POSSIBLE_IN_CURRENT_STATE Function not possible in current state.
0xC0D8000A	ERR_NPXP_PACKAGE_ODV3_OBJECT_INDEX_DOES_NOT_EXIST Object index does not exist.
0xC0D8000B	ERR_NPXP_PACKAGE_ODV3_SUB_OBJECT_INDEX_DOES_NOT_EXIST Sub-Object index does not exist.
0xC0D8000C	ERR_NPXP_PACKAGE_ODV3_MAPPING_REFERENCE_DOES_NOT_EXIST Mapping reference does not exist.
0xC0D8000D	ERR_NPXP_PACKAGE_ODV3_OBJECT_ELEMENT_DOES_NOT_EXIST Object element does not exist.

Table 157: netPROXY OD V3

6.8.5 netPROXY EtherCAT Slave

Hexadecimal value	Definition and description
0xC0D90001	ERR_NPXP_PACKAGE_ECS_NOT_CONFIGURED No configuration parameters have been provided.
0xC0D90002	ERR_NPXP_PACKAGE_ECS_NO_CONFIGURATION_PARAMETER No configuration parameters have been provided.
0xC0D90003	ERR_NPXP_PACKAGE_ECS_STARTUP_PARAMETER_VERSION_INVALID Startup parameter version is invalid.
0xC0D90004	ERR_NPXP_PACKAGE_ECS_NO_ETHERCAT_CONFIGURATION_PARAMETER No configuration parameters for EtherCAT-Slave have been provided.
0xC0D90005	ERR_NPXP_PACKAGE_ECS_CREATE_EVENT Failed to create event.
0xC0D90006	ERR_NPXP_PACKAGE_ECS_CREATE_THREAD Failed to create thread.
0xC0D90007	ERR_NPXP_PACKAGE_OPEN_ECS_INTERFACE Failed to open EtherCAT interface.

Table 158: netPROXY EtherCAT Slave

6.8.6 netPROXY Management Task

Hexadecimal value	Definition and description
0xC0E00001	ERR_NPX_MANAGEMENT_NPX_INIT Starting of net proxy core failed.
0xC0E00002	ERR_NPX_MANAGEMENT_STARTUP_PARAMETER_VERSION_INVALID Startup parameter version is invalid.
0xC0E00003	ERR_NPX_MANAGEMENT_MISSING_WORKER_HANDLE Worker handle is not configured.
0xC0E00004	ERR_NPX_MANAGEMENT_INITIALIZE_FAILURE Failed to initialize.
0xC0E00005	ERR_NPX_MANAGEMENT_SYSTEM_NO_STARTUP_PARAMETER_CONFIGURED No startup parameter configured.
0xC0E00006	ERR_NPX_MANAGEMENT_FAILED_TO_CREATE_RESOURCE Failed to create resource.
0xC0E00007	ERR_NPX_MANAGEMENT_PARAMETER_INVALID Parameter invalid.
0xC0E00008	ERR_NPX_MANAGEMENT_FILE_SIZE_INVALID Size of file is invalid.
0xC0E00009	ERR_NPX_MANAGEMENT_FUNCTION_PARAMETER_INVALID Function parameter invalid.
0xC0E0000A	ERR_NPX_MANAGEMENT_QUE_UNKNOWN Unknown queue.

Table 159: netPROXY Management Task

6.8.7 netPROXY Handler LED

Hexadecimal value	Definition and description
0xC0E50001	ERR_NPXHNDLR_LED_COMMAND_INVALID Invalid command received.

Table 160: netPROXY Handler LED

6.8.8 netPROXY PROFINET IO-Device Adapter

Hexadecimal value	Definition and description
0xC0EB0001	ERR_NPX_PNS_MISSING_CONFIG_PARAM Package configuration parameter is not provided.
0xC0EB0002	ERR_NPX_PNS_WRONG_CONFIG_PARAM_VERSION Wrong version of the package configuration parameters.
0xC0EB0003	ERR_NPX_PNS_MISSING_RESOURCE_STORAGE Storage for package resources is not provided on initialization.
0xC0EB0004	ERR_NPX_PNS_WORKER_CONTEXT_MISSING Missing worker context in startup parameters.
0xC0EB0005	ERR_NPX_PNS_STACK_INIT_FAILED Basic initialization of the PROFINET IO-Device stack failed.
0xC0EB0006	ERR_NPX_PNS_NO_SUBMODULE_CONFIGURED Configuration does not contain any submodule.

Table 161: netPROXY PROFINET IO-Device Adapter error codes

6.8.9 netPROXY Remanent

Hexadecimal value	Definition and description
0xC0F20001	ERR_NPXPACKAGE_REMANENT_STARTUP_PARAMETER_VERSION_INVALID Startup parameter version is invalid.
0xC0F20002	ERR_NPXPACKAGE_REMANENT_STORAGE_INTERFACE_INITIALIZATION_INCOMPLETE Storage interface initialization incomplete.
0xC0F20003	ERR_NPXPACKAGE_REMANENT_INVALID_FUNCTION_PARAMETER Invalid function parameter.
0xC0F20004	ERR_NPXPACKAGE_REMANENT_NO_STORAGE_INTERFACE_DEFINED Storage interface not defined.
0xC0F20005	ERR_NPXPACKAGE_REMANENT_CONFIGURED_STORAGE_SIZE_INSUFFICIENT Configured storage interface size is insufficient.
0xC0F20006	ERR_NPXPACKAGE_REMANENT_WRITE_FLASH_ERROR Error writing flash.
0xC0F20007	ERR_NPXPACKAGE_REMANENT_READ_FLASH_ERROR Error reading flash.
0xC0F20008	ERR_NPXPACKAGE_REMANENT_OPEN_FLASH_ERROR Error opening flash.
0xC0F20009	ERR_NPXPACKAGE_REMANENT_STORED_DATA_VERSION_NOT_SUPPORTED Stored version of data is not supported.
0xC0F2000A	ERR_NPXPACKAGE_REMANENT_STORED_DATA_BLOCK_SIZE_DOES_NOT_MATCH Size of stored data block does not match.
0xC0F2000B	ERR_NPXPACKAGE_REMANENT_DATA_BLOCK_NOT_FOUND Data block not found in stored data.
0xC0F2000C	ERR_NPXPACKAGE_REMANENT_REMAING_FLASH_SIZE_INSUFFICIENT Remaining flash size is insufficient.
0xC0F2000D	ERR_NPXPACKAGE_REMANENT_CREATE_MUTEX_FAILURE Failed to create mutex.
0xC0F2000E	ERR_NPXPACKAGE_REMANENT_COMMAND_INVALID Command invalid.
0xC0F2000F	ERR_NPXPACKAGE_REMANENT_CRC_INVALID CRC invalid.
0xC0F20010	ERR_NPXPACKAGE_REMANENT_STORAGE_SIZE_INCONSISTENT Size of storage data is inconsistent.
0xC0F20011	ERR_NPXPACKAGE_REMANENT_REMAING_STORAGE_SIZE_INSUFFICIENT Remaining storage size is insufficient.
0xC0F20012	ERR_NPXPACKAGE_REMANENT_MISSING_WORKER_HANDLE Worker handle is not configured.
0xC0F20013	ERR_NPXPACKAGE_REMANENT_INVALID_STORAGE_CLASS Invalid storage class.
0xC0F20014	ERR_NPXPACKAGE_REMANENT_REQUEST_ALREADY_RUNNING Request already running.

Table 162: netPROXY Remanent

6.8.10 netPROXY Common Communication

Hexadecimal value	Definition and description
0xC0FC0001	ERR_NPXPACKAGE_COMMON_COMMUNICATION_NOT_CONFIGURED No configuration parameters have been provided.
0xC0FC0002	ERR_NPXPACKAGE_COMMON_COMMUNICATION_DUPLICATE_RESOURCE A duplicate resource has been detected.
0xC0FC0003	ERR_NPXPACKAGE_COMMON_COMMUNICATION_OUT_OF_RESOURCE No free resource available.
0xC0FC0004	ERR_NPXPACKAGE_COMMON_COMMUNICATION_RESOURCE_NOT_AVAILABLE Resource not available.
0xC0FC0005	ERR_NPXPACKAGE_COMMON_COMMUNICATION_CREATE_RESOURCE_FAILURE Resource could not be created.
0xC0FC0006	ERR_NPXPACKAGE_COMMON_COMMUNICATION_COMMAND_INTERFACE_BUSY Command interface is busy.
0xC0FC0007	ERR_NPXPACKAGE_COMMON_COMMUNICATION_WRONG_INTERFACE_STATE_FOR_COMMAND Command is not allowed in current interface state.
0xC0FC0008	ERR_NPXPACKAGE_COMMON_COMMUNICATION_UNKNOWN_INTERFACE_COMMAND Interface command is unknown.
0xC0FC0009	ERR_NPXPACKAGE_COMMON_COMMUNICATION_NO_APPLICATION_REGISTERED Application is not registered.
0xC0FC000A	ERR_NPXPACKAGE_COMMON_COMMUNICATION_INTERFACE_STATE_TRANSITION_NOT_ALLOWED State transition not allowed.
0xC0FC000B	ERR_NPXPACKAGE_COMMON_COMMUNICATION_INTERFACE_STATE_UNKNOWN Interface state is unknown.
0xC0FC000C	ERR_NPXPACKAGE_COMMON_COMMUNICATION_NO_COMMAND_ACTIVE No command active.
0xC0FC000D	ERR_NPXPACKAGE_COMMON_COMMUNICATION_INVALID_FUNCTION_PARAMETER Invalid parameter for function.
0xC0FC000E	ERR_NPXPACKAGE_COMMON_COMMUNICATION_APPLICATION_ALREADY_REGISTERED Application is already registered.

Table 163: netPROXY Common Communication

6.8.11 netPROXY Generic Device

Hexadecimal value	Definition and description
0xC0FD0001	ERR_NPXP_PACKAGE_GENERIC_DEVICE_STARTUP_PARAMETER_INVALID Startup parameter are invalid.
0xC0FD0002	ERR_NPXP_PACKAGE_GENERIC_DEVICE_QUEUE_JOB_FAILURE Failed to queue job.
0xC0FD0003	ERR_NPXP_PACKAGE_GENERIC_DEVICE_CREATE_MUTEX_FAILURE Fail to create mutex.
0xC0FD0004	ERR_NPXP_PACKAGE_GENERIC_DEVICE_LOCK_MUTEX_FAILURE Fail to lock mutex.
0xC0FD0005	ERR_NPXP_PACKAGE_GENERIC_DEVICE_NOT_INITIALIZED Package not initialized.

Table 164: netPROXY Generic Device

6.8.12 netPROXY Ethernet

Hexadecimal value	Definition and description
0xC1030001	ERR_NPXP_PACKAGE_ETHERNET_FAILED_TO_CREATE_RESOURCE Failed to create resource.

Table 165: netPROXY Ethernet

6.8.13 netPROXY Internet Protocol V4

Hexadecimal value	Definition and description
0xC1040001	ERR_NPXP_PACKAGE_INETPROTOCOLV4_FAILED_TO_CREATE_RESOURCE Failed to create resource.

Table 166: netPROXY Internet Protocol V4

6.8.14 netPROXY PROFINET IO-Device to IO-Link Master Proxy

Hexadecimal value	Definition and description
0xC1050001	ERR_NPX_PNSIOLM_PCKCFG_MISSING_CONFIG_PARAM Package configuration parameter is not provided.
0xC1050002	ERR_NPX_PNSIOLM_PCKCFG_WRONG_CONFIG_PARAM_VERSION Wrong version of the package configuration parameters.
0xC1050003	ERR_NPX_PNSIOLM_PCKCFG_INVALID_SLOTNUMBER Not allowed slot number provided in the package configuration parameter "usSlotNr".
0xC1050004	ERR_NPX_PNSIOLM_PCKCFG_INVALID_INSTSMC The required range of instances defined by the package configuration parameter "usInstSMCfirst" and number of IO-Link ports cannot be accessed, the PROFINET device adapter does not provide desired object instances.
0x41050005	INFO_NPX_PNSIOLM_PORTCFG_RECONFIGURATION_TIMEOUT Port Configuration object: expected IO-Link port state is not reached. The possible reasons: IO-Link device not connected, error happened while reconfiguration, unusual/unexpected port configuration is provided.
0x41050006	INFO_NPX_PNSIOLM_PORTCFG_NO_RECONFIGURATION_TRIGGERED Port Configuration object: IO-Link port will not be reconfigured because the port configuration is not changed.
0xC1050007	ERR_NPX_PNSIOLM_PCKCFG_INVALID_NUMBER_PROCESS_ALARM Not allowed number of Process Alarms provided in the package configuration parameter "usNumPA".
0x41050008	INFO_NPX_PNSIOLM_PORT_DIAGNOSIS_DISABLED Port diagnosis disabled.
0x41050009	INFO_NPX_PNSIOLM_PORT_PROCESS_ALARM_DISABLED Port Process Alarms disabled.
0xC105000A	ERR_NPX_PNSIOLM_PORT_CONFIG_INVALID Invalid port configuration
0xC105000B	ERR_NPX_PNSIOLM_IM0_TOO_FEW_INSTANCES Too few instances configured for the "IM0" object in the configuration parameters.
0xC105000C	ERR_NPX_PNSIOLM_PCKCFG_PDOM_INVALID_INSTANCES Invalid PDO Mapper instances provided in the package configuration parameter "usInstPDOMTx" and/or "usInstPDOMRx".
0xC105000D	ERR_NPX_PNSIOLM_PCKCFG_PDOMREF_INVALID_INSTANCE The required range of instances defined by the package configuration parameter "usInstPDOMRfirst" and number of IO-Link ports cannot be accessed, the PROFINET device adapter does not provide desired object instances.
0xC105000E	ERR_NPX_PNSIOLM_PCKCFG_DIAG_INVALID_INSTANCE The required range of instances defined by the package configuration parameter "usInstDIAGfirst" and number of IO-Link ports cannot be accessed, the PROFINET device adapter does not provide desired object instances.

Table 167: netPROXY PROFINET IO-Device to IO-Link Master Proxy - status codes

6.8.15 Config Manager

Hexadecimal value	Definition and description
0xC0ED0001	ERR_CONFIG_MANAGER_NO_CONFIG_FILE No configuration file available.
0xC0ED0002	ERR_CONFIG_MANAGER_INVALID_HEADER_COOKIE Invalid magic cookie (Unknown file type).
0xC0ED0003	ERR_CONFIG_MANAGER_INVALID_HEADER_VERSION Unsupported file header version.
0xC0ED0004	ERR_CONFIG_MANAGER_INVALID_HEADER_LENGTH Invalid length of file header.
0xC0ED0005	ERR_CONFIG_MANAGER_INVALID_FILE_LENGTH Invalid length of configuration file .
0xC0ED0006	ERR_CONFIG_MANAGER_INVALID_MD5 File Header contains a wrong MD5 checksum.
0xC0ED0007	ERR_CONFIG_MANAGER_INVALID_CHECKSUM File Header contains a wrong CRC checksum.
0xC0ED0008	ERR_CONFIG_MANAGER_INVALID_TLV_DATA_LENGTH Invalid TLV data length.
0xC0ED0009	ERR_CONFIG_MANAGER_INVALID_TLV_HEAD_LENGTH Invalid TLV head length.
0xC0ED000A	ERR_CONFIG_MANAGER_INVALID_TLV_SEQUENCE Invalid TLV sequence.
0xC0ED000B	ERR_CONFIG_MANAGER_INVALID_BUCKET_STATUS Invalid bucket status.
0xC0ED000C	ERR_CONFIG_MANAGER_PROTOCOL_CLASS_MISMATCH Mismatch between Firmware and Configuration protocol class.
0xC0ED000D	ERR_CONFIG_MANAGER_COMMUNICATION_CLASS_MISMATCH Mismatch between Firmware and Configuration communication class.
0x00ED000E	SUCCESS_CONFIG_MANAGER_NO_MORE_PACKETS The configuration manager finished processing the configuration file, further configuration packets are not available.
0xC0ED000F	ERR_CONFIG_MANAGER_FILE_NOT_CLOSED The configuration file is not closed.
0xC0ED0010	ERR_CONFIG_MANAGER_INVALID_CONFIG_FILE Invalid configuration file.
0xC0ED0011	ERR_CONFIG_MANAGER_UNKNOWN_CONFIG_FILE Unknown configuration file.
0xC0ED0012	ERR_CONFIG_MANAGER_UNSUPPORTED_CONFIG_FILE Unsupported configuration file.
0xC0ED0013	ERR_CONFIG_MANAGER_CORRUPT_CONFIG_FILE The configuration file is corrupt.
0xC0ED0014	ERR_CONFIG_MANAGER_INVALID_BOUNDARY Invalid boundary address.
0xC0ED0015	ERR_CONFIG_MANAGER_DBM_UNKNOWN_TABLE Unknown table in the configuration file.
0xC0ED0016	ERR_CONFIG_MANAGER_DBM_INVALID_TABLE_TYPE Invalid table type.
0xC0ED0017	ERR_CONFIG_MANAGER_DBM_NO_RECORD No record in the configuration file available.

Hexadecimal value	Definition and description
0xC0ED0018	ERR_CONFIG_MANAGER_DBM_INVALID_INDEX Invalid index.
0xC0ED0019	ERR_CONFIG_MANAGER_DBM_INVALID_HANDLE Invalid handle.
0xC0ED001A	ERR_CONFIG_MANAGER_DBM_INVALID_DATASET Invalid dataset.
0xC0ED001B	ERR_CONFIG_MANAGER_DBM_KEY_NOT_FOUND Key not found.
0xC0ED001C	ERR_CONFIG_MANAGER_DBM_UNKNOWN_PROPERTY Unknown property.

Table 168: Config Manager result codes

6.8.16 Metadata

Hexadecimal value	Definition and description
0xC0FA0001	ERR_NPX_METADATA_INVALID_POINTER NULL pointer passing.
0xC0FA0002	ERR_NPX_METADATA_OUT_OF_MEMORY Memory allocation failure.
0xC0FA0003	ERR_NPX_METADATA_UNITS_FILE_OPEN Error opening units file.
0xC0FA0004	ERR_NPX_METADATA_UNITS_FILE_SIZE Error retrieving units file size.
0xC0FA0005	ERR_NPX_METADATA_UNITS_FILE_READ Error reading data from units file.
0xC0FA0006	ERR_NPX_METADATA_UNITS_FILE_PARSE Error parsing data read from units file.
0xC0FA0007	ERR_NPX_METADATA_METADATA_FILE_OPEN Error opening metadata file.
0xC0FA0008	ERR_NPX_METADATA_METADATA_FILE_SIZE Error retrieving metadata file size.
0xC0FA0009	ERR_NPX_METADATA_METADATA_FILE_READ Error reading data from metadata file.
0xC0FA000A	ERR_NPX_METADATA_METADATA_FILE_PARSE Error parsing data read from metadata file.
0xC0FA000B	ERR_NPX_METADATA_METADATA_PARSE Error parsing metadata.
0xC0FA000C	ERR_NPX_METADATA_METADATA_ENTRY_NOT_FOUND Associated metadata entry not found.

Table 169: Metadata error codes

6.8.17 Authentication Manager

Hexadecimal value	Definition and description
0xC0FB0001	ERR_AUTH_USRDB_NO_CONFIG No configuration available.
0xC0FB0002	ERR_AUTH_USRDB_INVALID_REALM_LEN Realm string has invalid length.
0xC0FB0003	ERR_AUTH_USRDB_INVALID_USER_NAME_LEN User name has invalid length.
0xC0FB0004	ERR_AUTH_USRDB_LIBSTORAGE_INIT_FAIL Libstorage initialization failed.
0xC0FB0005	ERR_AUTH_USRDB_LIBSTORAGE_WRITE_FAIL Libstorage write operation failed.
0xC0FB0006	ERR_AUTH_USRDB_LIBSTORAGE_READ_FAIL Libstorage read operation failed.
0xC0FB0007	ERR_AUTH_USRDB_NOT_INITIALIZED Authentication Manager is not initialized.
0xC0FB0008	ERR_AUTH_USRDB_UNEXPECTED_GROUP Unexpected group member.
0xC0FB0009	ERR_AUTH_USRDB_WRONG_PASSWORD Incorrect password.
0xC0FB000A	ERR_AUTH_USRDB_INVALID_TOKEN Invalid token.
0xC0FB000B	ERR_AUTH_USRDB_OPT_FLAG_NOT_ENABLED Option flag is not enabled.
0xC0FB000C	ERR_AUTH_USRDB_INVALID_USERNAME Invalid user name.
0xC0FB000D	ERR_AUTH_USRDB_ALREADY_INITIALIZED Authentication Manager is already initialized.
0xC0FB000E	ERR_AUTH_USRDB_VALID_TOKEN Valid token.
0xC0FB000F	ERR_AUTH_USRDB_INVALID_FILENAME Invalid file name.
0xC0FB0010	ERR_AUTH_USRDB_INVALID_CREDENTIALS Invalid credentials. Wrong username or password.
0xC0FB0011	ERR_AUTH_USRDB_ROOT_NOT_CREATED Root user could not be created.
0xC0FB0012	ERR_AUTH_USRDB_INVALID_PASSWORD_LEN Password is either empty, too short or too long.
0xC0FB0013	ERR_AUTH_USRDB_INVALID_TOKEN_BUFFER Invalid token buffer.
0xC0FB0014	ERR_AUTH_USRDB_GROUP_NOT_ALLOWED Group not allowed.
0xC0FB0015	ERR_AUTH_USRDB_USER_EXISTS User already exist.
0xC0FB0016	ERR_AUTH_USRDB_IDX_OUT_OF_RANGE User enumeration index is out of range.
0xC0FB0017	ERR_AUTH_USRDB_TOKEN_UNPRIVILEGED Token is not privileged enough to execute operation.

Hexadecimal value	Definition and description
0xC0FB0018	ERR_AUTH_MANAGER_CONFIG_MISMATCH The new configuration does not match the configuration the system was initialized with.
0xC0FB0020	ERR_AUTH_CRTDB_ENTRY_NOT_FOUND No entry matching the search criteria could be found in the database.
0xC0FB0021	ERR_AUTH_CRTDB_ENTRY_PARSE_X509 Error occurred during parsing of the DER-encoded certificate.
0xC0FB0022	ERR_AUTH_CRTDB_LIBSTORAGE_INIT_FAIL Libstorage initialization failed.
0xC0FB0023	ERR_AUTH_CRTDB_NOT_INITIALIZED Certificate database module has not been initialized yet.
0xC0FB0024	ERR_AUTH_CRTDB_ALREADY_INITIALIZED Certificate database has already been initialized.
0xC0FB0025	ERR_AUTH_CRTDB_OUTOFSPACE Certificate database has no more space left to store the requested entry.
0xC0FB0026	ERR_AUTH_CRTDB_DATA_INCONSISTENT The MD5 checksum stored inside the database does not match the data stored inside the database.
0xC0FB0027	ERR_AUTH_CRTDB_INVALID_PARAMETER An invalid parameter was passed to the certificate database API.
0xC0FB0028	ERR_AUTH_CRTDB_ENTRY_EXISTS The entry to be stored already exists inside the database which means that the database contains an entry with the same filename specified within the store operation.
0xC0FB0029	ERR_AUTH_CRTDB_ENTRY_PARSE_KEY Error occurred during parsing of the DER/PEM-encoded key.

Table 170: Authentication Manager Error Codes

6.8.18 netPROXY Package PDO Mapper

Hexadecimal value	Definition and description
0xC10B0001	ERR_NPX_PDOMAPPER_CODE_ALLOC_OUTOFMEMORY Code allocation failed due to out of memory.
0xC10B0002	ERR_NPX_PDOMAPPER_PDO_BUFFER_SIZE_EXCEEDED PDO Buffer Size exceeded.
0xC10B0003	ERR_NPX_PDOMAPPER_INVALID_ENDIANNESS Invalid endianness.
0xC10B0004	ERR_NPX_PDOMAPPER_DUPLICATE_IN_SINK_DATA_MAPPING Duplicate in sink data mapping.
0xC10B0005	ERR_NPX_PDOMAPPER_INVALID_SOURCE_MAPPING_ENTRY Invalid source mapping entry.
0xC10B0006	ERR_NPX_PDOMAPPER_INVALID_SINK_MAPPING_ENTRY Invalid sink mapping entry.
0xC10B0007	ERR_NPX_PDOMAPPER_NO_EGRESS_MODULE No egress module available.
0xC10B0008	ERR_NPX_PDOMAPPER_INCOMPATIBLE_MAPPING Incompatible mapping.
0xC10B0009	ERR_NPX_PDOMAPPER_INCOMPATIBLE_AGGREGATION_MAPPING Incompatible aggregation mapping.
0xC10B000A	ERR_NPX_PDOMAPPER_INGRESS_BUFFER_SIZE_EXCEEDED Ingress Buffer Size exceeded.
0xC10B000B	ERR_NPX_PDOMAPPER_EGRESS_BUFFER_SIZE_EXCEEDED Egress Buffer Size exceeded.

Table 171: netPROXY package PDO Mapper

6.8.19 netPROXY Package OPC UA Adapter

Hexadecimal value	Definition and description
0xC10A0001	ERR_NPXPACKAGE_OPCUA_FAILED_TO_CREATE_RESOURCE Creation of the resource failed.
0xC10A0002	ERR_NPXPACKAGE_OPCUA_MISSING_CONFIG_PARAM Missing configuration parameter.
0xC10A0003	ERR_NPXPACKAGE_OPCUA_WRONG_CONFIG_PARAM_VERSION Wrong parameter version in the configuration parameter.
0xC10A0004	ERR_NPXPACKAGE_OPCUA_WRONG_CONFIG_PARAMETER Wrong configuration parameter.
0xC10A0005	ERR_NPXPACKAGE_OPCUA_THREAT_CREATION_FAILED The creation of the stack thread failed.
0xC10A0006	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_PRIORITY_WRONG The priority in the configuration parameter is wrong.
0xC10A0007	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_THREATS_NULL bNoOfThreads in the configuration parameter must not be zero.
0xC10A0008	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_MAX_NUMBER_SERVER_ACTIONS_NULL usMaxNoOfServerActions in the configuration parameter must not be zero.
0xC10A0009	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_MAX_MONITORED_ITEMS_PER_CALL_NULL usMaxMonitoredItemsPerCall in the configuration parameter must not be zero.
0xC10A000A	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_MAX_NODES_PER_BROWSE_NULL usMaxNodesPerBrowse in the configuration parameter must not be zero.
0xC10A000B	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_MAX_NODES_PER_CALL_NULL usMaxNodesPerMethodCall in the configuration parameter must not be zero.
0xC10A000C	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_MAX_NODES_PER_NODE_MANAGEMENT_NULL usMaxNodesPerNodeManagement in the configuration parameter must not be zero.
0xC10A000D	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_MAX_NODES_PER_READ_NULL usMaxNodesPerRead in the configuration parameter must not be zero.
0xC10A000E	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_MAX_NODES_PER_REGISTER_NODES_NULL usMaxNodesPerRegisterNodes in the configuration parameter must not be zero.
0xC10A000F	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_MAX_NODES_PER_TRANSLATE_BROWSE_PATH_TO_NODE_IDS_NULL usMaxNodesPerTranslateBrowsePathsToNodeIds in the configuration parameter must not be zero.
0xC10A0010	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_MAX_NODES_PER_WRITE_NULL usMaxNodesPerWrite in the configuration parameter must not be zero.
0xC10A0011	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_WORKER_HANDLE_NULL hWorker in the configuration parameter must not be zero.
0xC10A0012	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_DIRECTORY_NAME_WRONG chaDirectoryName in the configuration parameter is wrong
0xC10A0013	ERR_NPXPACKAGE_OPCUA_CONFIG_PARAM_VOLUME_NAME_WRONG chaVolumeName in the configuration parameter is wrong
0xC10A0014	ERR_NPXPACKAGE_OPCUA_OUT_OF_MEMORY_LOCAL_RESOURCES The allocation of the memory for the local resources failed.
0xC10A0015	ERR_NPXPACKAGE_OPCUA_ADD_OBJECT_DESCRIPTION_FAILED A "add object description" call failed.

Hexadecimal value	Definition and description
0xC10A0016	ERR_NPXPACKAGE_OPCUA_ADD_VOLATILE_STORAGE_FAILED A "add volatile storage" object failed.
0xC10A0017	ERR_NPXPACKAGE_OPCUA_ADD_OBJECT_ENTITY_FAILED A "add object entity" call failed.
0xC10A0018	ERR_NPXPACKAGE_OPCUA_DEFAULT_VALUE_OBJECT_INITIALISATION_FAILED The initialization of an object with its default values failed.
0xC10A0019	ERR_NPXPACKAGE_OPCUA_OUT_OF_MEMORY_TLV_PARSE The allocation of the memory for the TLV file failed.
0xC10A001A	ERR_NPXPACKAGE_OPCUA_TLV_READ_FAILE_NO_MORE_DATA The TLV read failed, no more data left.
0xC10A001B	ERR_NPXPACKAGE_OPCUA_TLV_FILE_START_TAG_WRONG Wrong file-start tag in the TLV file.
0xC10A001C	ERR_NPXPACKAGE_OPCUA_TLV_FILE_ELEMENT_TAG_WRONG Wrong file-element tag in the TLV file.
0xC10A001E	ERR_NPXPACKAGE_OPCUA_OUT_OF_MEMORY_NODES_LIST The allocation of the memory for the nodes list failed.
0xC10A001F	ERR_NPXPACKAGE_OPCUA_WRONG_TAG_NODS_LIST Wrong TLV Tag for the nodes-list.
0xC10A0020	ERR_NPXPACKAGE_OPCUA_WRONG_LENGTH_NODS_LIST Wrong TLV length for the nodes-list.
0xC10A0021	ERR_NPXPACKAGE_OPCUA_HANDLE_FILE_OPEN_INVALID The file open handle is invalid.
0xC10A0022	ERR_NPXPACKAGE_OPCUA_WRONG_TAG_UAIM_LIST Wrong TLV Tag expected UAIM List.
0xC10A0023	ERR_NPXPACKAGE_OPCUA_FILE_NAME_LENGTH_EXCEEDED The file name is too long.
0xC10A0024	ERR_NPXPACKAGE_OPCUA_UNKNOWN_FILE_CONTENT_TAG The unknown file content tag.
0xC10A0025	ERR_NPXPACKAGE_OPCUA_UNKNOWN_REFERENCE_TAG The reference tag is unknown.
0xC10A0026	ERR_NPXPACKAGE_OPCUA_UNKNOWN_DATA_TYPE_TAG The data-type tag is unknown.
0xC10A0027	ERR_NPXPACKAGE_OPCUA_UNKNOWN_VARIABLE_TYPE_TAG The variable-type tag is unknown.
0xC10A0028	ERR_NPXPACKAGE_OPCUA_UNKNOWN_VARIABLE_TAG The variable tag is unknown.
0xC10A0029	ERR_NPXPACKAGE_OPCUA_NUMBER_OF_NODES_LENGTH_WRONG The length of the number of nodes is wrong.
0xC10A002A	ERR_NPXPACKAGE_OPCUA_VALUE_RANK_NOT_HANDLED The value rank is unknown.
0xC10A002B	ERR_NPXPACKAGE_OPCUA_OUT_OF_MEMORY_LOCALIZED_TEXT The allocation of the memory for the localized text failed
0xC10A002C	ERR_NPXPACKAGE_OPCUA_TAG_EU_INFORMATION_NUMERIC_WRONG The eu-information tag is not expected.
0xC10A002D	ERR_NPXPACKAGE_OPCUA_TAG_ARGUMENT_WRONG The tag argument is unknown.
0xC10A002E	ERR_NPXPACKAGE_OPCUA_UNEXPECTED_BROWSE_NAME_LENGTH Unexpected "browse name" length.

Hexadecimal value	Definition and description
0xC10A002F	ERR_NPXPACKAGE_OPCUA_UNEXPECTED_REFERENCE_TYPE_ENUM_LENGTH Unexpected "reference type enum" length.
0xC10A0030	ERR_NPXPACKAGE_OPCUA_EXPECTED_REFERENCE_TYPE Expected the reference type tag. Other tag received.
0xC10A0031	ERR_NPXPACKAGE_OPCUA_UNEXPECTED_DATA_TYPE_ENUM_LENGTH Unexpected "data type enum" length.
0xC10A0032	ERR_NPXPACKAGE_OPCUA_EXPECTED_DATA_TYPE Expected the data type tag. Other tag received.
0xC10A0033	ERR_NPXPACKAGE_OPCUA_UNEXPECTED_VARIABLE_TYPE_LENGTH Unexpected "variable type" length.
0xC10A0034	ERR_NPXPACKAGE_OPCUA_EXPECTED_VARIABLE_TYPE Expected the variable type tag. Other tag received.
0xC10A0035	ERR_NPXPACKAGE_OPCUA_UNEXPECTED_OBJECT_NUMBER_LENGTH Unexpected "object number" length.
0xC10A0036	ERR_NPXPACKAGE_OPCUA_EXPECTED_OBJECT_TYPE Expected the object type tag. Other tag received.
0xC10A0037	ERR_NPXPACKAGE_OPCUA_UNEXPECTED_METHODE_NUMBER_LENGTH Unexpected "method number" length.
0xC10A0038	ERR_NPXPACKAGE_OPCUA_EXPECTED_METHODE_TYPE Expected the method tag. Other tag received.
0xC10A0039	ERR_NPXPACKAGE_OPCUA_UNKNOWN_ELEMENT_MAPPING_TAG Unknown element mapping tag received.
0xC10A003A	ERR_NPXPACKAGE_OPCUA_EXPECTED_VARIABLE_TAG Expected the variable tag.
0xC10A003B	ERR_NPXPACKAGE_OPCUA_GET_REFERENCE_HANDLING_UNKNOWN_TAG Unknown tag received during the get-reference handling.
0xC10A003C	ERR_NPXPACKAGE_OPCUA_GET_OBJECT_TYPE_HANDLING_UNKNOWN_TAG Unknown tag received during the object-type handling.
0xC10A003D	ERR_NPXPACKAGE_OPCUA_GET_OBJECT_HANDLING_UNKNOWN_TAG Unknown tag received during the object handling.
0xC10A003E	ERR_NPXPACKAGE_OPCUA_GET_METHODE_HANDLING_UNKNOWN_TAG Unknown tag received during the method handling.
0xC10A003F	ERR_NPXPACKAGE_OPCUA_NODE_ID_STRING_LENGTH_WRONG The node-id string length is wrong.
0xC10A0040	ERR_NPXPACKAGE_OPCUA_EXPECTED_NUM_OF_REFERENCES_TAG The "num of references" tag is expected.
0xC10A0041	ERR_NPXPACKAGE_OPCUA_NUMERICAL_NODE_IDLENGTH_WRONG The "numerical node-id" length is wrong.
0xC10A0042	ERR_NPXPACKAGE_OPCUA_UNEXPECTED_OBJECT_TYPE_NUMBER_LENGTH Unexpected "object type number" length.
0xC10A0043	ERR_NPXPACKAGE_OPCUA_EXPECTED_OBJECT_TYPE_TAG Expected the object type tag. Other tag received.
0xC10A0044	ERR_NPXPACKAGE_OPCUA_DECODE_LOCAL_TEXT_UNKNOWN_TAG Received unknown Tag during local text decoding.
0xC10A0045	ERR_NPXPACKAGE_OPCUA_STRING_COPY_BUFFER_EXCEEDED String copy buffer too small.
0xC10A0046	ERR_NPXPACKAGE_OPCUA_NAMESPACE_TO_NUMBER_CONVERSION_FAILED The Namespace to the number conversion failed.

Hexadecimal value	Definition and description
0xC10A0047	ERR_NPXPACKAGE_OPCUA_MONTH_CONVERSION_INCREASE_FAILED Failure occurred during the month conversion (increase).
0xC10A0048	ERR_NPXPACKAGE_OPCUA_MONTH_CONVERSION_DECREASE_FAILED Failure occurred during the month conversion (decrease).
0xC10A0049	ERR_NPXPACKAGE_OPCUA_DATA_TYPE_CONVERSION_FAILED_TYPE_UNKNOWN Data type conversion failed. The data type is unknown.
0xC10A004A	ERR_NPXPACKAGE_OPCUA_DATA_TYPE_CONVERSION_FAILED_BOOLEAN_LENGTH Data type conversion failed. The Boolean Length is wrong.
0xC10A004B	ERR_NPXPACKAGE_OPCUA_DATA_TYPE_CONVERSION_FAILED_INTEGER_LENGTH Data type conversion failed. The Integer Length is wrong.
0xC10A004C	ERR_NPXPACKAGE_OPCUA_DATA_TYPE_CONVERSION_FAILED_UNSIGNED_LENGTH Data type conversion failed. The Unsigned Length is wrong.
0xC10A004D	ERR_NPXPACKAGE_OPCUA_DATA_TYPE_CONVERSION_FAILED_REAL_LENGTH Data type conversion failed. The Real Length is wrong.
0xC10A004E	ERR_NPXPACKAGE_OPCUA_CREATE_OBJECT_INTERNAL_LIST_TOO_SMALL The internal list for crate object is too small.
0xC10A004F	ERR_NPXPACKAGE_OPCUA_APPEND_OBJECT_INSTANCE_TOO_LARGE The given Index is larger than 0xFF.
0xC10A0050	ERR_NPXPACKAGE_OPCUA_APPEND_OBJECT_GROUP_ID_TOO_LARGE The given Group-ID is larger than 0xFF.
0xC10A0051	ERR_NPXPACKAGE_OPCUA_APPEND_OBJECT_INDEX_TOO_LARGE The given Index is larger than 0xFFFF.
0xC10A0052	ERR_NPXPACKAGE_OPCUA_NPX_READ_OBJECT_ELEMENT_NUMBER_WRONG Element number error during netProxy read Object.
0xC10A0053	ERR_NPXPACKAGE_OPCUA_NPX_WRITE_OBJECT_ELEMENT_NUMBER_WRONG Element number error during netProxy write Object.
0xC10A0054	ERR_NPXPACKAGE_OPCUA_NPX_WRITE_OBJECT_STRING_BUFFER_EXCEEDED String buffer exceeded during netProxy write Object.
0xC10A0055	ERR_NPXPACKAGE_OPCUA_CHANGE_DIRECTORY_FAILED Change directory failed.
0xC10A0056	ERR_NPXPACKAGE_OPCUA_GET_FILE_SIZE_FAILED Get file size failed.
0xC10A0057	ERR_NPXPACKAGE_OPCUA_DATE_TIME_FORMAT_WRONG_CONVERSION_ERROR The given date/time format is wrong and not according ISO 8601:2006-09 / EN 28601.
0xC10A0058	ERR_NPXPACKAGE_OPCUA_DATE_TIME_OUT_OF_AREA The converted data/time is not in the expected area.
0xC10A0059	ERR_NPXPACKAGE_OPCUA_SYSTIME_TO_FILETIME_ERROR Error during conversion of Systeime to File-time.
0xC10A005A	ERR_NPXPACKAGE_OPCUA_TIMEZONE_OUT_OF_AREA The time zone is not in the expected range.
0xC10A005B	ERR_NPXPACKAGE_OPCUA_REGISTER_NOTIFY_CALLBACK_FAILED The registration of notification callbacks failed.
0xC10A005C	ERR_NPXPACKAGE_OPCUA_OUT_OF_MEMORY_ACTION_OBJECTS The allocation of the memory for the action objects failed.
0xC10A005D	ERR_NPXPACKAGE_OPCUA_OUT_OF_MEMORY_MAPPING_OBJECTS The allocation of the memory for the mapping objects failed.
0xC10A005E	ERR_NPXPACKAGE_OPCUA_READ_MIN_ELEMENTS_EXCEEDS_SIZE Minimum elements exceeds the size during netProxy read.

Hexadecimal value	Definition and description
0xC10A005F	ERR_NPXPACKAGE_OPCUA_READ_MAX_ELEMENTS_EXCEEDS_SIZE Maximum elements exceeds the size during netProxy read.
0xC10A0060	ERR_NPXPACKAGE_OPCUA_WRITE_MIN_ELEMENTS_EXCEEDS_SIZE Minimum elements exceeds the size during netProxy write.
0xC10A0061	ERR_NPXPACKAGE_OPCUA_WRITE_MAX_ELEMENTS_EXCEEDS_SIZE Maximum elements exceeds the size during netProxy write.
0xC10A0062	ERR_NPXPACKAGE_OPCUA_WRITE_NO_OUT_DATA_POINTER During netProxy write no out data pointer received.
0xC10A0063	ERR_NPXPACKAGE_OPCUA_WRITE_NO_OUT_DATA_POINTER_INVALID During netProxy write the out data pointer is invalid.
0xC10A0064	ERR_NPXPACKAGE_OPCUA_WRITE_ARRAY_DIMENSIONS_OUT_OF_RANGE During netProxy write the received array dimensions are out of range.
0xC10A0065	ERR_NPXPACKAGE_OPCUA_OUT_OF_MEMORY_ADD_NETWORK_LAYER Out of memory during add default network layer.
0xC10A0066	ERR_NPXPACKAGE_OPCUA_OUT_OF_MEMORY_ADD_ENDPOINTS Out of memory during add endpoints.
0xC10A0067	ERR_NPXPACKAGE_OPCUA_OUT_OF_MEMORY_SERVER_CONFIG Out of memory during allocate server config.
0xC10A0068	ERR_NPXPACKAGE_OPCUA_OUT_OF_MEMORY_APPLICATION_URI_CREATE Out of memory during allocate application URI create.
0xC10A0069	ERR_NPXPACKAGE_OPCUA_PAIR_SERVER_SIZE_ERROR Tag content length larger than 4 Octet.
0xC10A006A	ERR_NPXPACKAGE_OPCUA_NODE_ID_NOT_FOUND The node ID not found.

Table 172: netPROXY Package OPC UA Adapter

6.8.20 netPROXY Package OPC UA IOL Adapter

Hexadecimal value	Definition and description
0xC10F0001	ERR_NPXP_PACKAGE_OPCUA_IOL_PARAMETER_VERSION_WRONG The parameter version in the configuration parameter is wrong.
0xC10F0002	ERR_NPXP_PACKAGE_OPCUA_IOL_CONFIGURATION_HANDLE_INVALID The worker handle in the configuration parameter is wrong.
0xC10F0003	ERR_NPXP_PACKAGE_OPCUA_IOL_OUT_OF_MEMORY_LOCAL_RESOURCES The alloc for the local resources failed.
0xC10F0004	ERR_NPXP_PACKAGE_OPCUA_IOL_NO_CONFIG_PARAMETER No configuration parameter provided. Handle is null.
0xC10F0005	ERR_NPXP_PACKAGE_OPCUA_IOL_FILE_TAG_WRONG Not the expected mapping tag in the file.
0xC10F0006	ERR_NPXP_PACKAGE_OPCUA_IOL_FILE_ELEMENT_TAG_WRONG Not the expected element tag in the file.
0xC10F0007	ERR_NPXP_PACKAGE_OPCUA_IOL_NO_MAPPING_FILE_FOUND No mapping file found.
0xC10F0008	ERR_NPXP_PACKAGE_OPCUA_IOL_WRONG_NUMBER_INTERNAL_MAPPINGS_TAG Expected the "Number of internal mappings" tag.
0xC10F0009	ERR_NPXP_PACKAGE_OPCUA_IOL_WRONG_NUMBER_INTERNAL_MAPPINGS_LENGTH The length of the "Number of internal mappings" tag is wrong.
0xC10F000A	ERR_NPXP_PACKAGE_OPCUA_IOL_OUT_OF_MEMORY_FOR_MAPPING_OBJECTS The alloc for the mapping objects failed.
0xC10F000B	ERR_NPXP_PACKAGE_OPCUA_IOL_WRONG_NUMBER_INTERNAL_IOL_MAPPINGS_TAG Expected the "Number of IOL internal mappings" tag.
0xC10F000C	ERR_NPXP_PACKAGE_OPCUA_IOL_WRONG_NUMBER_INTERNAL_IOL_MAPPINGS_LENGTH The length of the "Number of internal mappings" tag is wrong.
0xC10F000D	ERR_NPXP_PACKAGE_OPCUA_IOL_OUT_OF_MEMORY_FOR_IOL_MAPPING_OBJECTS The alloc for the IOL mapping objects failed.
0xC10F000E	ERR_NPXP_PACKAGE_OPCUA_IOL_WRONG_IOL_FILE_TAG Not the expected IOL file tag found.
0xC10F000F	ERR_NPXP_PACKAGE_OPCUA_IOL_MAXIMUM_FILE_NAME_EXCEEDED The maximum file name is too long.
0xC10F0010	ERR_NPXP_PACKAGE_OPCUA_IOL_CHECK_FILE_UNKNOWN_TAG Unknown tag found during tag processing.
0xC10F0011	ERR_NPXP_PACKAGE_OPCUA_IOL_INTERNAL_MAPPING_BUFFER_FULL Internal Mapping Buffer is full.
0xC10F0012	ERR_NPXP_PACKAGE_OPCUA_IOL_MAPPING_TAG Not the IOL mapping tag received.
0xC10F0013	ERR_NPXP_PACKAGE_OPCUA_IOL_OUT_OF_MEMORY_FOR_INTERNAL_REFERENCES The alloc for the IOL internal references failed.
0xC10F0014	ERR_NPXP_PACKAGE_OPCUA_IOL_INTERNAL_REFERENCE_TAG Not the "internal reference" tag received.
0xC10F0015	ERR_NPXP_PACKAGE_OPCUA_IOL_GET_REFERENCE_TAG Unknown tag received while parsing the "get reference" tags.
0xC10F0016	ERR_NPXP_PACKAGE_OPCUA_IOL_GET_REFERENCE_IOL_MAPPING_TAG Unknown tag received while parsing the "get reference internal mapping" tags.
0xC10F0017	ERR_NPXP_PACKAGE_OPCUA_IOL_GET_NODE_ID_NUMERIC_CONVERSION_FAIL Failure during the conversion of the Node-ID numeric.

Hexadecimal value	Definition and description
0xC10F0018	ERR_NPXPACKAGE_OPCUA_IOL_STRING_COPY_BUFFER_ERROR During string copy buffer too small.
0xC10F0019	ERR_NPXPACKAGE_OPCUA_IOL_UNKNOWN_ALARM Unknown Alarm Severity.
0xC10F001A	ERR_NPXPACKAGE_OPCUA_IOL_VALIDATION_BACKUP_CONVERSION Error during "Validation & Backup" conversion.
0xC10F001B	ERR_NPXPACKAGE_OPCUA_IOL_WRITE_ISDU_TYPE_CONVERSION Error during the write ISDU type conversion.
0xC10F001C	ERR_NPXPACKAGE_OPCUA_IOL_OPEN_FILE_FAILED Open file failed.
0xC10F001D	ERR_NPXPACKAGE_OPCUA_IOL_PORT_NUMBER_EXCEEDED The port number must be smaller than 100.

Table 173: netPROXY Package OPC UA IOL Adapter

6.8.21 netPROXY Package OPC UA netIOL Adapter

Hexadecimal value	Definition and description
0xC1100001	ERR_NPXPACKAGE_OPCUA_NETIOL_PARAMETER_VERSION_WRONG The parameter version in the configuration parameter is wrong.
0xC1100002	ERR_NPXPACKAGE_OPCUA_NETIOL_CONFIGURATION_HANDLE_INVALID The worker handle in the configuration parameter is wrong.
0xC1100003	ERR_NPXPACKAGE_OPCUA_NETIOL_CONFIGURATION_NULL The configuration handle is null.
0xC1100004	ERR_NPXPACKAGE_OPCUA_NETIOL_MALLOC_LOCAL_RESOURCES The memory allocation for local resources failed.

Table 174: netPROXY package OPC UA netIOL Adapter

6.8.22 netPROXY SSIO Package

Hexadecimal value	Definition and description
0xC1070001	ERR_NPXPACKAGE_SSIO_HANDLER_MAPPING_OBJECT_MISMATCH Mapping object mismatch.
0xC1070002	ERR_NPXPACKAGE_SSIO_HANDLER_RESOURCE_INIT Failed to initialize resource.
0xC1070003	ERR_NPXPACKAGE_SSIO_HANDLER_IMPROPER_STATE Improper state.
0xC1070004	ERR_NPXPACKAGE_SSIO_INVALID_SPI_CONFIGURATION SPI configuration invalid.
0xC1070005	ERR_NPXPACKAGE_SSIO_INVALID_FAILSAFE_MODE Fail safe mode invalid.
0xC1070006	ERR_NPXPACKAGE_SSIO_INVALID_SHIFT_PERIOD Shift period invalid.
0xC1070007	ERR_NPXPACKAGE_SSIO_INVALID_WATCHDOG_VALUE Watchdog value invalid.
0xC1070008	ERR_NPXPACKAGE_SSIO_INVALID_FAILSAFE_RELEASE_METHOD Fail safe release mode invalid.
0xC1070009	ERR_NPXPACKAGE_SSIO_INVALID_CONFIGURATION_FLAGS Configuration flags invalid.

Hexadecimal value	Definition and description
0xC107000A	ERR_NPXPACKAGE_SSIO_UNSUPPORTED_FUNCTION Unsupported function.

Table 175: netPROXY SSIO Package

6.9 Marshaller TCP Connector

Hexadecimal value	Definition and description
0xC0860001	ERR_TCP_CONNECTOR_MEM_ADDRESS Invalid memory address. (NULL pointer passing.)
0xC0860002	ERR_TCP_CONNECTOR_MEMORY Out of memory.
0xC0860003	ERR_TCP_CONNECTOR_RESOURCE Resource initialization problem.
0xC0860004	ERR_TCP_CONNECTOR_PARAMETER_VALUE Invalid parameter value.
0xC0860005	ERR_TCP_CONNECTOR_STATE_MACHINE Invalid state. (Resetting state machine ...)
0xC0860006	ERR_TCP_CONNECTOR_PROTOCOL_SUPPORT TCP not supported by network protocol stack.
0xC0860007	ERR_TCP_CONNECTOR_ADDRESS_INFO Invalid addressing information from network protocol stack.
0xC0860008	ERR_TCP_CONNECTOR_SERVICE_CNF Error in service confirmation from network protocol stack.
0xC0860009	ERR_TCP_CONNECTOR_SEND Error while sending request to the network protocol stack.
0xC086000A	ERR_TCP_CONNECTOR_MAX_RETRIES Maximum number of service retries exceeded.
0xC086000B	ERR_TCP_CONNECTOR_TIMEOUT Remote connection timeout.

Table 176: Marshaller TCP Connector status codes

6.10 MQTT Client

Hexadecimal value	Definition and description
0xC0F90001	ERR_MQTT_CLIENT_INVALID_POINTER NULL pointer passing.
0xC0F90002	ERR_MQTT_CLIENT_OUT_OF_MEMORY Memory allocation failure.
0xC0F90003	ERR_MQTT_CLIENT_STARTUP_PARAM_VERSION Invalid startup parameter version.
0xC0F90004	ERR_MQTT_CLIENT_STARTUP_CYCLE_TIME Invalid cycle time.
0xC0F90005	ERR_MQTT_CLIENT_LOG_INIT Error initializing log functionality.
0xC0F90006	ERR_MQTT_CLIENT_LOG_ADDRESS Invalid log destination address.
0xC0F90007	ERR_MQTT_CLIENT_LOG_LEVEL Invalid log level value.
0xC0F90008	ERR_MQTT_CLIENT_CONTROL_COMMAND Invalid control command.
0xC0F90009	ERR_MQTT_CLIENT_CONTROL_PARAMETER Invalid control command parameter.
0xC0F9000A	ERR_MQTT_CLIENT_CONTROL_IN_PROGRESS Another control command is in progress.
0xC0F9000B	ERR_MQTT_CLIENT_CONTROL_CANCELLED Pending control command canceled.
0xC0F9000C	ERR_MQTT_CLIENT_IP_INFO Error retrieving IP address info.
0xC0F9000D	ERR_MQTT_CLIENT_SUBNET_INFO Error retrieving subnet mask info.
0xC0F9000E	ERR_MQTT_CLIENT_MAC_INFO Error retrieving MAC address info.
0xC0F9000F	ERR_MQTT_CLIENT_ASYNC_INIT Error initializing MQTT Async API.
0xC0F90010	ERR_MQTT_CLIENT_ASYNC_CREATE Error creating an MQTT Async object.
0xC0F90011	ERR_MQTT_CLIENT_TOPIC_PREFIX_CREATE Error creating topic prefix from macro.
0xC0F90012	ERR_MQTT_CLIENT_TOPIC_PREFIX_INVALID Invalid topic prefix string.
0xC0F90013	ERR_MQTT_CLIENT_WILL_TOPIC_CREATE Error creating will topic from macro.
0xC0F90014	ERR_MQTT_CLIENT_WILL_TOPIC_INVALID Invalid will topic string.
0xC0F90015	ERR_MQTT_CLIENT_TOPIC_INVALID Invalid topic string.
0xC0F90016	ERR_MQTT_CLIENT_USER_NAME_INVALID Invalid user name string.
0xC0F90017	ERR_MQTT_CLIENT_CLIENT_ID Invalid client ID string.

Hexadecimal value	Definition and description
0xC0F90018	ERR_MQTT_CLIENT_CONNECTION_ID No connection with matching unique ID.
0xC0F90019	ERR_MQTT_CLIENT_CONNECTION_STATE Not allowed in current connection state.
0xC0F9001A	ERR_MQTT_CLIENT_ACTION_STATE Not allowed in current action state.
0xC0F9001B	ERR_MQTT_CLIENT_CONNECT Error while triggering a connect request.
0xC0F9001C	ERR_MQTT_CLIENT_DISCONNECT Error while triggering a disconnect request.
0xC0F9001D	ERR_MQTT_CLIENT_PUBLISH Error while triggering a publish request.
0xC0F9001E	ERR_MQTT_CLIENT_SUBSCRIBE Error while triggering a subscribe request.
0xC0F9001F	ERR_MQTT_CLIENT_INSTANCE_DOES_NOT_EXIST Object instance does not exist.
0xC0F90020	ERR_MQTT_CLIENT_ELEMENT_DOES_NOT_EXIST Object element does not exist.
0xC0F90021	ERR_MQTT_CLIENT_ELEMENT_WRITE_ACCESS_DENIED Write access to object element denied.
0xC0F90022	ERR_MQTT_CLIENT_GET_ELEMENT_SIZE Error retrieving object element byte size.
0xC0F90023	ERR_MQTT_CLIENT_DATA_LEN Invalid data length or data length mismatch.
0xC0F90024	ERR_MQTT_CLIENT_DECODE_OBJECT Error decoding object data.
0xC0F90025	ERR_MQTT_CLIENT_DECODE_ELEMENT Error decoding object element data.
0xC0F90026	ERR_MQTT_CLIENT_DECODE_ELEMENT_SIZE Error decoding element size attribute.
0xC0F90027	ERR_MQTT_CLIENT_DECODE_ELEMENT_TYPE Error decoding element type attribute.
0xC0F90028	ERR_MQTT_CLIENT_DECODE_ELEMENT_VALUE Error decoding element value attribute.
0xC0F90029	ERR_MQTT_CLIENT_ENCODE_OBJECT Error encoding object data.
0xC0F9002A	ERR_MQTT_CLIENT_ENCODE_ELEMENT Error encoding object element data.
0xC0F9002B	ERR_MQTT_CLIENT_ENCODE_ELEMENT_VALUE Error encoding element value.
0xC0F9002C	ERR_MQTT_CLIENT_ENCODE_ELEMENT_DEFVAL Error encoding element default value.
0xC0F9002D	ERR_MQTT_CLIENT_ENCODE_ELEMENT_MAXVAL Error encoding element maximum value.
0xC0F9002E	ERR_MQTT_CLIENT_ENCODE_ELEMENT_MINVAL Error encoding element minimum value.

Hexadecimal value	Definition and description
0xC0F9002F	ERR_MQTT_CLIENT_ENCODE_ELEMENT_UNIT Error encoding element unit.

Table 177: MQTT Client error codes

6.11 Object Dictionary

6.11.1 Object Dictionary V2

Hexadecimal value	Definition and description
0xC0280001	ERR_OD2_OBJECT_IN_USE Object in use.
0xC0280002	ERR_OD2_INVALID_SUBINDEX Invalid subindex. No such subobject.
0xC0280003	ERR_OD2_INVALID_DATATYPE Invalid data type.
0xC0280004	ERR_OD2_INVALID_BUFFER_PTR Invalid buffer pointer.
0xC0280005	ERR_OD2_INVALID_SECTOR Invalid sector.
0xC0280006	ERR_OD2_INVALID_SUBSECTOR Invalid subsector.
0xC0280007	ERR_OD2_INVALID_OBJECT Invalid object.
0xC0280008	ERR_OD2_INVALID_INDEX Invalid index. No such object.
0xC0280009	ERR_OD2_SUBOBJECT_NOT_ALLOCATED Subobject is not allocated.
0xC028000a	ERR_OD2_BUFFER_TOO_SMALL Buffer too small.
0xC028000b	ERR_OD2_READ_ONLY Read only object.
0xC028000c	ERR_OD2_WRITE_ONLY Write only object.
0xC028000d	ERR_OD2_SUBOBJECT_CNT_MISMATCH Subobject count mismatch.
0x8028000e	WARN_OD2_SUBOBJECT_IS_ADDRESSED_RELATIVE Subobject is addressed relative to a base ptr.
0xC028000f	ERR_OD2_NOT_ENOUGH_MEMORY Not enough memory.
0xC0280010	ERR_OD2_CALLBACK_IS_LOCKED Callback is locked against changes.
0xC0280011	ERR_OD2_DATATYPE_LENGTH_TOO_LONG Data type length is too long.
0xC0280012	ERR_OD2_PDO_LENGTH_WOULD_EXCEED PDO length would exceed maximum transfer size.
0xC0280013	ERR_OD2_OBJECT_CANNOT_BE_PDO_MAPPED An object cannot be mapped in a PDO.
0xC0280014	ERR_OD2_BUFFER_TOO_BIG Buffer too big.
0xC0280015	ERR_OD2_UNSUPPORTED_ACCESS Unsupported Access.
0xC0280016	ERR_OD2_VALUE_WRITTEN_TOO_HIGH Value written too high.

Hexadecimal value	Definition and description
0xC0280017	ERR_OD2_VALUE_WRITTEN_TOO_LOW Value written too low.
0xC0280018	ERR_OD2_OBJECT_ALREADY_EXISTS Object already exists.
0xC0280019	ERR_OD2_SUBOBJECT_ALREADY_EXISTS Sub-Object already exists.
0xC028001A	ERR_OD2_SUBOBJECT_DOES_NOT_EXIST Sub-Object does not exist.
0xC028001B	ERR_OD2_OBJECT_CREATION_LOCKED Object creation locked.

Table 178: Object Dictionary error codes

6.11.2 Object Dictionary V2 DPM Adapter Task

Hexadecimal value	Definition and description
0xC0480001	ERR_DPM_OD2_COMMAND_INVALID Invalid command.

Table 179: Object Dictionary V2 DPM Adapter Task

6.11.3 Object Dictionary V3

Hexadecimal value	Definition and description
0xC09B0001	ERR_ODV3_PROTOCOL_TIMEOUT SDO Protocol Timeout.
0xC09B0002	ERR_ODV3_UNSUPPORTED_ACCESS Unsupported access.
0xC09B0003	ERR_ODV3_OBJECT_IS_WRITE_ONLY Object is write only.
0xC09B0004	ERR_ODV3_OBJECT_IS_READ_ONLY Object is read-only.
0xC09B0005	ERR_ODV3_OBJECT_DOES_NOT_EXIST Object does not exist.
0xC09B0006	ERR_ODV3_OBJECT_CANNOT_BE_PDO_MAPPED Object cannot be mapped into PDO.
0xC09B0007	ERR_ODV3_OBJECTS_WOULD_EXCEED_PDO_LENGTH The number and length of the objects to be mapped would exceed the PDO length.
0xC09B0008	ERR_ODV3_GENERAL_PARAMETER_INCOMPATIBILITY General parameter incompatibility.
0xC09B0009	ERR_ODV3_ACCESS_FAILED_DUE_TO_HW_ERROR Access failed due to hardware error.
0xC09B000A	ERR_ODV3_DATATYPE_DOES_NOT_MATCH Data type does not match, length of service parameter does not match.
0xC09B000B	ERR_ODV3_DATATYPE_LENGTH_IS_TOO_LONG Data type does not match, service parameter too long.
0xC09B000C	ERR_ODV3_DATATYPE_LENGTH_IS_TOO_SHORT Data type does not match, service parameter too short.
0xC09B000D	ERR_ODV3_SUBINDEX_DOES_NOT_EXIST Subindex does not exist.
0xC09B000E	ERR_ODV3_RANGE_OF_PARAMETER_EXCEEDED Value range of parameter exceeded.
0xC09B000F	ERR_ODV3_VALUE_OF_PARAMETER_WRITTEN_TOO_HIGH Value of parameter written too high.
0xC09B0010	ERR_ODV3_VALUE_OF_PARAMETER_WRITTEN_TOO_LOW Value of parameter written too low.
0xC09B0011	ERR_ODV3_MAXIMUM_VALUE_IS_LESS_THAN_MINIMUM_VALUE Maximum value is less than minimum value.
0xC09B0012	ERR_ODV3_GENERAL_ERROR General error.
0xC09B0013	ERR_ODV3_DATA_CANNOT_BE_TRANSFERRED_OR_STORED_TO_THE_APP Data cannot be transferred to or stored in the application.
0xC09B0014	ERR_ODV3_DATA_NO_TRANSFER_DUE_TO_LOCAL_CONTROL Data cannot be transferred to or stored in the application because of local control.
0xC09B0015	ERR_ODV3_DATA_NO_TRANSFER_DUE_TO_PRESENT_DEVICE_STATE Data cannot be transferred to or stored in the application because of present device state.
0xC09B0016	ERR_ODV3_NO_OBJECT_DICTIONARY_PRESENT Object dictionary dynamic generation fails or no object dictionary present.
0xC09B0017	ERR_ODV3_GENERAL_INTERNAL_INCOMPATIBILITY General internal incompatibility.

Hexadecimal value	Definition and description
0xC09B0018	ERR_ODV3_ALL_BY_INDEX_UNSUPPORTED Access via AllByIndex unsupported.
0xC09B8000	ERR_ODV3_DELETION_LOCKED Deletion is locked.
0xC09B8001	ERR_ODV3_OTHER_TASK_HAS_LOCKED_DELETION Other task has locked deletion.
0xC09B8002	ERR_ODV3_ONLY_ONE_READ_NOTIFY_ALLOWED Only one read notify allowed.
0xC09B8003	ERR_ODV3_APPLICATION_NOT_REGISTERED Application task is not registered.
0xC09B8004	ERR_ODV3_UNFRAGMENTABLE_PART_DOES_NOT_MATCH_SRCID Unfragmentable part of packet does not match SrcId.
0xC09B8005	ERR_ODV3_UNFRAGMENTABLE_PART_DOES_NOT_MATCH_DESTID Unfragmentable part of packet does not match DestId.
0xC09B8006	ERR_ODV3_SRCID_DOES_NOT_MATCH_ANY_FRAGMENTATION_BUFFER SrcId does not match any fragmentation buffer.
0xC09B8007	ERR_ODV3_DESTID_DOES_NOT_MATCH_ANY_FRAGMENTATION_BUFFER Dest ID does not match any fragmentation buffer.
0xC09B8008	ERR_ODV3_OBJECT_WAS_DELETED_IN_ACTION Object was deleted in action.
0xC09B8009	ERR_ODV3_SUBOBJECT_WAS_DELETED_IN_ACTION Subobject was deleted in action.
0xC09B800A	ERR_ODV3_REQUEST_ABORTED Request aborted.
0xC09B800B	ERR_ODV3_VALUE_INFO_ONLY_SUPPORTED_ON_SIMPLE_VAR Given bValueInfo is only supported on SimpleVar.
0xC09B800C	ERR_ODV3_DATATYPE_UNDEFINED Data type is undefined.
0xC09B800D	ERR_ODV3_OTHER_APPLICATION_REGISTERED Other application is already registered.
0xC09B800E	ERR_ODV3_DATATYPE_ALREADY_EXISTS CANopen data type already exists.
0xC09B800F	ERR_ODV3_DATATYPE_DOES_NOT_EXIST CANopen data type does not exist.
0xC09B8010	ERR_ODV3_VIRTUAL_OBJECT_CANNOT_BE_ACCESSED_WITHOUT_INDICATION Virtual object cannot be accessed without indication.
0xC09B8011	ERR_ODV3_FRAGMENTATION_IMPOSSIBLE Fragmentation impossible.
0xC09B8012	ERR_ODV3_ACCESS_VIA_UNDEFINED_NOTIFY_DENIED Access via undefined notify denied.
0xC09B8013	ERR_ODV3_OBJECT_ALREADY_EXISTS Object already exists.
0xC09B8014	ERR_ODV3_SUBOBJECT_ALREADY_EXISTS Subobject already exists.
0xC09B8015	ERR_ODV3_CANNOT_BE_DELETED_NOT_OWNER Object/Subobject cannot be deleted. Requester is not owner.
0xC09B8016	ERR_ODV3_MAX_NUMBER_OF_SUBOBJECTS_EXCEEDED Maximum number of subobjects exceeded.

Hexadecimal value	Definition and description
0xC09B8017	ERR_ODV3_HAS_NO_DEFAULT_VALUE Has no default value.
0xC09B8018	ERR_ODV3_INDICATION_FLAGS_NOT_ALLOWED Indication flags not allowed.
0xC09B8019	ERR_ODV3_INDICATION_FLAGS_NOT_SUPPORTED Indication flags not supported.
0xC09B801A	ERR_ODV3_ONLY_ONE_RW_UNDEFINED_SUBOBJ_NOTIFY_ALLOWED Only one read/write notification allowed for a non-existing subobject notification.
0xC09B801B	ERR_ODV3_ONLY_ONE_INFO_UNDEFINED_SUBOBJ_NOTIFY_ALLOWED Only one info notification allowed for a non-existing subobject notification.
0xC09B801C	ERR_ODV3_CREATION_NOT_COMPLETED Running creation of object/subobjects not yet completed.
0xC09B801D	ERR_ODV3_TOTAL_DATA_BYTES_AND_PKT_LEN_MISMATCH Dependency of total data bytes and packet length not fulfilled.
0xC09B801E	ERR_ODV3_NO_MORE_SUBINDEXES No more subindex.
0xC09B801F	ERR_ODV3_VIRTUAL_CANNOT_BE_COMBINED_WITH_INITIAL_VALUE Virtual value cannot be combined with initial value.
0xC09B8020	ERR_ODV3_ALL_BY_INDEX_NOT_POSSIBLE_DUE_ACCESS_RIGHTS AllByIndex not possible due to access rights.
0xC09B8021	ERR_ODV3_GET_OBJECT_LIST_INDICATION_NOT_SORTED GetObjectList indication not sorted.
0xC09B8022	ERR_ODV3_GET_OBJECT_LIST_DOUBLE_OBJECT_PRESENTED GetObjectList double object presented.
0xC09BE000	ERR_ODV3_MUTEX_INIT_ERROR Mutex init error.
0xC09BE001	ERR_ODV3_SEMAPHORE_INIT_ERROR Semaphore init error.
0xC09BE002	ERR_ODV3_TASK_INIT_ERROR Task init error.
0xC09BE003	ERR_ODV3_IS_SHUTTING_DOWN Is Shutting Down.
0xC09BE004	ERR_ODV3_REQUEST_DESTINATION_PROBLEM Request destination problem.
0xC09BE005	ERR_ODV3_UNALLOWED_CALLBACK_COMBINATION Callback combination not allowed.
0xC09BE006	ERR_ODV3_INVALID_TRANSFER_HANDLE Invalid transfer handle.
0xC09BE800	ERR_ODV3_MAX_FIELD_LENGTH_EXCEEDS_LIMITS Max field length exceeds limits.
0xC09BE801	ERR_ODV3_INVALID_DATATYPE_SPECIFIED Invalid datatype specified.
0xC09BE802	ERR_ODV3_NOT_ALLOWED_VALUE_INFO_COMBINATION Not allowed value info combination.
0xC09BE803	ERR_ODV3_EXTRA_PADDING_NOT_ALLOWED_IN_DATA Extra padding not allowed in data.
0xC09BE804	ERR_ODV3_INVALID_PARAMETER_MINIMUM_VALUE Invalid parameter: Minimum value.

Hexadecimal value	Definition and description
0xC09BE805	ERR_ODV3_INVALID_PARAMETER_MAXIMUM_VALUE Invalid parameter: Maximum value.
0xC09BE806	ERR_ODV3_INVALID_PARAMETER_INITIAL_VALUE Invalid parameter: Initial value.
0xC09BE807	ERR_ODV3_INVALID_PARAMETER_DEFAULT_VALUE Invalid parameter: Default value.
0xC09BE808	ERR_ODV3_MISSING_DATA Missing data.
0xC09BE809	ERR_ODV3_MAX_SUBINDEX_SMALLER_ACTUAL_SUBINDEX Maximum subindex is smaller than actual subindex.
0xC09BE80A	ERR_ODV3_DATA_SEGMENT_EXCEEDS_REMAINING_EXPECTED_BYTES Data segment exceeds remaining expected bytes.
0xC09BE80B	ERR_ODV3_INVALID_PARAMETER_NAME Invalid parameter: Name.
0xC09BE80C	ERR_ODV3_INVALID_PARAMETER_ECAT_UNIT Invalid parameter: EtherCAT Unit.
0xC09BE80D	ERR_ODV3_MISSING_PARAMETER_MINIMUM_VALUE Missing parameter: Minimum value.
0xC09BE80E	ERR_ODV3_MISSING_PARAMETER_MAXIMUM_VALUE Missing parameter: Maximum value.
0xC09BE80F	ERR_ODV3_MISSING_PARAMETER_INITIAL_VALUE Missing parameter: Initial value.
0xC09BE810	ERR_ODV3_MISSING_PARAMETER_DEFAULT_VALUE Missing parameter: Default value.
0xC09BE811	ERR_ODV3_MISSING_PARAMETER_NAME Missing parameter: Name.
0xC09BE812	ERR_ODV3_MISSING_PARAMETER_ECAT_UNIT Missing parameter: EtherCAT Unit.
0xC09BE813	ERR_ODV3_BUSY_WITH_PREVIOUS_SEGMENT Busy with previous segment.
0xC09BE814	ERR_ODV3_TRANSFER_ABORTED Transfer aborted.
0xC09BE815	ERR_ODV3_MAX_TOTAL_DATA_BYTES_SMALLER_THAN_ACTUAL_TOTAL_DATA_BYTES Max total data bytes smaller than actual total data bytes.
0xC09BE816	ERR_ODV3_INDICATION_DESTINATION_PROBLEM Indication destination problem.
0xC09BE817	ERR_ODV3_START_SUBINDEX_OUT_OF_RANGE Start subindex out of range.
0xC09BE818	ERR_ODV3_POOL_OUT_OF_PACKET Pool out of packet.
0xC09BF000	ERR_ODV3_UNEXPECTED_ERROR_000 Unexpected Error (0xF000)
0xC09BF001	ERR_ODV3_UNEXPECTED_ERROR_001 Unexpected Error (0xF001)
0xC09BF002	ERR_ODV3_UNEXPECTED_ERROR_002 Unexpected Error (0xF002)
0xC09BF003	ERR_ODV3_UNEXPECTED_ERROR_003 Unexpected Error (0xF003)

Hexadecimal value	Definition and description
0xC09BF004	ERR_ODV3_UNEXPECTED_ERROR_004 Unexpected Error (0xF004)
0xC09BF005	ERR_ODV3_UNEXPECTED_ERROR_005 Unexpected Error (0xF005)
0xC09BF006	ERR_ODV3_UNEXPECTED_ERROR_006 Unexpected Error (0xF006)
0xC09BF007	ERR_ODV3_UNEXPECTED_ERROR_007 Unexpected Error (0xF007)
0xC09BF008	ERR_ODV3_UNEXPECTED_ERROR_008 Unexpected Error (0xF008)
0xC09BF009	ERR_ODV3_UNEXPECTED_ERROR_009 Unexpected Error (0xF009)
0xC09BF00A	ERR_ODV3_UNEXPECTED_ERROR_00A Unexpected Error (0xF00A)
0xC09BF00B	ERR_ODV3_UNEXPECTED_ERROR_00B Unexpected Error (0xF00B)
0xC09BF00C	ERR_ODV3_UNEXPECTED_ERROR_00C Unexpected Error (0xF00C)
0xC09BF00D	ERR_ODV3_UNEXPECTED_ERROR_00D Unexpected Error (0xF00D)
0xC09BF00E	ERR_ODV3_UNEXPECTED_ERROR_00E Unexpected Error (0xF00E)
0xC09BF00F	ERR_ODV3_UNEXPECTED_ERROR_00F Unexpected Error (0xF00F)
0xC09BF010	ERR_ODV3_UNEXPECTED_ERROR_010 Unexpected Error (0xF010)
0xC09BF011	ERR_ODV3_UNEXPECTED_ERROR_011 Unexpected Error (0xF011)
0xC09BF012	ERR_ODV3_UNEXPECTED_ERROR_012 Unexpected Error (0xF012)
0xC09BF013	ERR_ODV3_UNEXPECTED_ERROR_013 Unexpected Error (0xF013)
0xC09BF014	ERR_ODV3_UNEXPECTED_ERROR_014 Unexpected Error (0xF014)
0xC09BF015	ERR_ODV3_UNEXPECTED_ERROR_015 Unexpected Error (0xF015)
0xC09BF016	ERR_ODV3_UNEXPECTED_ERROR_016 Unexpected Error (0xF016)
0xC09BF017	ERR_ODV3_UNEXPECTED_ERROR_017 Unexpected Error (0xF017)
0xC09BF018	ERR_ODV3_UNEXPECTED_ERROR_018 Unexpected Error (0xF018)
0xC09BF019	ERR_ODV3_UNEXPECTED_ERROR_019 Unexpected Error (0xF019)
0xC09BF01A	ERR_ODV3_UNEXPECTED_ERROR_01A Unexpected Error (0xF01A)
0xC09BF01B	ERR_ODV3_UNEXPECTED_ERROR_01B Unexpected Error (0xF01B)

Hexadecimal value	Definition and description
0xC09BF01C	ERR_ODV3_UNEXPECTED_ERROR_01C Unexpected Error (0xF01C)
0xC09BF01D	ERR_ODV3_UNEXPECTED_ERROR_01D Unexpected Error (0xF01D)
0xC09BF01E	ERR_ODV3_UNEXPECTED_ERROR_01E Unexpected Error (0xF01E)
0xC09BF01F	ERR_ODV3_UNEXPECTED_ERROR_01F Unexpected Error (0xF01F)
0xC09BF020	ERR_ODV3_UNEXPECTED_ERROR_020 Unexpected Error (0xF020)
0xC09BF021	ERR_ODV3_UNEXPECTED_ERROR_021 Unexpected Error (0xF021)
0xC09BF022	ERR_ODV3_UNEXPECTED_ERROR_022 Unexpected Error (0xF022)
0xC09BF023	ERR_ODV3_UNEXPECTED_ERROR_023 Unexpected Error (0xF023)
0xC09BF024	ERR_ODV3_UNEXPECTED_ERROR_024 Unexpected Error (0xF024)
0xC09BF025	ERR_ODV3_UNEXPECTED_ERROR_025 Unexpected Error (0xF025)
0xC09BF026	ERR_ODV3_UNEXPECTED_ERROR_026 Unexpected Error (0xF026)
0xC09BF027	ERR_ODV3_UNEXPECTED_ERROR_027 Unexpected Error (0xF027)
0xC09BF028	ERR_ODV3_UNEXPECTED_ERROR_028 Unexpected Error (0xF028)
0xC09BF029	ERR_ODV3_UNEXPECTED_ERROR_029 Unexpected Error (0xF029)
0xC09BF02A	ERR_ODV3_UNEXPECTED_ERROR_02A Unexpected Error (0xF02A)
0xC09BF02B	ERR_ODV3_UNEXPECTED_ERROR_02B Unexpected Error (0xF02B)
0xC09BF02C	ERR_ODV3_UNEXPECTED_ERROR_02C Unexpected Error (0xF02C)
0xC09BF02D	ERR_ODV3_UNEXPECTED_ERROR_02D Unexpected Error (0xF02D)
0xC09BF02E	ERR_ODV3_UNEXPECTED_ERROR_02E Unexpected Error (0xF02E)
0xC09BF02F	ERR_ODV3_UNEXPECTED_ERROR_02F Unexpected Error (0xF02F)
0xC09BF030	ERR_ODV3_UNEXPECTED_ERROR_030 Unexpected Error (0xF030)
0xC09BF031	ERR_ODV3_UNEXPECTED_ERROR_031 Unexpected Error (0xF031)
0xC09BF032	ERR_ODV3_UNEXPECTED_ERROR_032 Unexpected Error (0xF032)
0xC09BF033	ERR_ODV3_UNEXPECTED_ERROR_033 Unexpected Error (0xF033)

Hexadecimal value	Definition and description
0xC09BF034	ERR_ODV3_UNEXPECTED_ERROR_034 Unexpected Error (0xF034)
0xC09BF035	ERR_ODV3_UNEXPECTED_ERROR_035 Unexpected Error (0xF035)
0xC09BF036	ERR_ODV3_UNEXPECTED_ERROR_036 Unexpected Error (0xF036)
0xC09BF037	ERR_ODV3_UNEXPECTED_ERROR_037 Unexpected Error (0xF037)
0xC09BF038	ERR_ODV3_UNEXPECTED_ERROR_038 Unexpected Error (0xF038)
0xC09BF039	ERR_ODV3_UNEXPECTED_ERROR_039 Unexpected Error (0xF039)
0xC09BF03A	ERR_ODV3_UNEXPECTED_ERROR_03A Unexpected Error (0xF03A)
0xC09BF03B	ERR_ODV3_UNEXPECTED_ERROR_03B Unexpected Error (0xF03B)
0xC09BF03C	ERR_ODV3_UNEXPECTED_ERROR_03C Unexpected Error (0xF03C)
0xC09BF03D	ERR_ODV3_UNEXPECTED_ERROR_03D Unexpected Error (0xF03D)
0xC09BF03E	ERR_ODV3_UNEXPECTED_ERROR_03E Unexpected Error (0xF03E)
0xC09BF03F	ERR_ODV3_UNEXPECTED_ERROR_03F Unexpected Error (0xF03F)
0xC09BF040	ERR_ODV3_UNEXPECTED_ERROR_040 Unexpected Error (0xF040)
0xC09BF041	ERR_ODV3_UNEXPECTED_ERROR_041 Unexpected Error (0xF041)
0xC09BF042	ERR_ODV3_UNEXPECTED_ERROR_042 Unexpected Error (0xF042)
0xC09BF043	ERR_ODV3_UNEXPECTED_ERROR_043 Unexpected Error (0xF043)
0xC09BF044	ERR_ODV3_UNEXPECTED_ERROR_044 Unexpected Error (0xF044)
0xC09BF045	ERR_ODV3_UNEXPECTED_ERROR_045 Unexpected Error (0xF045)
0xC09BF046	ERR_ODV3_UNEXPECTED_ERROR_046 Unexpected Error (0xF046)
0xC09BF047	ERR_ODV3_UNEXPECTED_ERROR_047 Unexpected Error (0xF047)
0xC09BF048	ERR_ODV3_UNEXPECTED_ERROR_048 Unexpected Error (0xF048)
0xC09BF049	ERR_ODV3_UNEXPECTED_ERROR_049 Unexpected Error (0xF049)
0xC09BF04A	ERR_ODV3_UNEXPECTED_ERROR_04A Unexpected Error (0xF04A)
0xC09BF04B	ERR_ODV3_UNEXPECTED_ERROR_04B Unexpected Error (0xF04B)

Hexadecimal value	Definition and description
0xC09BF04C	ERR_ODV3_UNEXPECTED_ERROR_04C Unexpected Error (0xF04C)
0xC09BF04D	ERR_ODV3_UNEXPECTED_ERROR_04D Unexpected Error (0xF04D)
0xC09BF04E	ERR_ODV3_UNEXPECTED_ERROR_04E Unexpected Error (0xF04E)
0xC09BF04F	ERR_ODV3_UNEXPECTED_ERROR_04F Unexpected Error (0xF04F)
0xC09BF050	ERR_ODV3_UNEXPECTED_ERROR_050 Unexpected Error (0xF050)
0xC09BF051	ERR_ODV3_UNEXPECTED_ERROR_051 Unexpected Error (0xF051)
0xC09BF052	ERR_ODV3_UNEXPECTED_ERROR_052 Unexpected Error (0xF052)
0xC09BF053	ERR_ODV3_UNEXPECTED_ERROR_053 Unexpected Error (0xF053)
0xC09BF054	ERR_ODV3_UNEXPECTED_ERROR_054 Unexpected Error (0xF054)
0xC09BF055	ERR_ODV3_UNEXPECTED_ERROR_055 Unexpected Error (0xF055)
0xC09BF056	ERR_ODV3_UNEXPECTED_ERROR_056 Unexpected Error (0xF056)
0xC09BF057	ERR_ODV3_UNEXPECTED_ERROR_057 Unexpected Error (0xF057)
0xC09BF058	ERR_ODV3_UNEXPECTED_ERROR_058 Unexpected Error (0xF058)
0xC09BF059	ERR_ODV3_UNEXPECTED_ERROR_059 Unexpected Error (0xF059)
0xC09BF05A	ERR_ODV3_UNEXPECTED_ERROR_05A Unexpected Error (0xF05A)
0xC09BF05B	ERR_ODV3_UNEXPECTED_ERROR_05B Unexpected Error (0xF05B)
0xC09BF05C	ERR_ODV3_UNEXPECTED_ERROR_05C Unexpected Error (0xF05C)
0xC09BF05D	ERR_ODV3_UNEXPECTED_ERROR_05D Unexpected Error (0xF05D)
0xC09BF05E	ERR_ODV3_UNEXPECTED_ERROR_05E Unexpected Error (0xF05E)
0xC09BF05F	ERR_ODV3_UNEXPECTED_ERROR_05F Unexpected Error (0xF05F)
0xC09BF060	ERR_ODV3_UNEXPECTED_ERROR_060 Unexpected Error (0xF060)
0xC09BF061	ERR_ODV3_UNEXPECTED_ERROR_061 Unexpected Error (0xF061)
0xC09BF062	ERR_ODV3_UNEXPECTED_ERROR_062 Unexpected Error (0xF062)

Table 180: Object Dictionary V3 error codes

6.12 SNMP

6.12.1 SNMP Server Task

Hexadecimal value	Definition and description
0xC03B0001	ERR_SNMP_SERVER_COMMAND_INVALID Invalid command.

Table 181: SNMP server task

6.13 TFTP

6.13.1 TFTP

Hexadecimal value	Definition and description
0xC0B80001	ERR_TFTP_COMMAND_INVALID Invalid command received.
0xC0B80002	ERR_TFTP_INVALID_PARAMETER Invalid parameter received.
0xC0B80003	ERR_TFTP_STACK_BUSY The stack is currently operating.
0xC0B80004	ERR_TFTP_DISK_FULL Not enough space.
0xC0B80005	ERR_TFTP_INTERNAL_ERROR Some internal error occurred.
0xC0B80006	ERR_TFTP_REMOTE_STATION_TIMEOUT Remote station error - Timeout.
0xC0B80007	ERR_TFTP_REMOTE_STATION_FILE_NOT_FOUND Remote station error - File Not Found.
0xC0B80008	ERR_TFTP_REMOTE_STATION_ACCESS_VIOLATION Remote station error - Access Violation.
0xC0B80009	ERR_TFTP_REMOTE_STATION_DISK_FULL Remote station error - Disk Full.
0xC0B8000A	ERR_TFTP_REMOTE_STATION_FILE_EXISTS Remote station error - File Exists.
0xC0B8000B	ERR_TFTP_REMOTE_STATION_NO_SUCH_USER Remote station error - No Such User.
0xC0B8000C	ERR_TFTP_REMOTE_STATION_UNEXPCTD_ERR Remote station error - Unexpected Error.
0xC0B8000D	ERR_TFTP_ROOT_PATH_NOT_EXIST The root path specified does not exist.
0xC0B8000E	ERR_TFTP_FIRMWARE_FILE_CORRUPT The firmware file checksum error.
0xC0B8000F	ERR_TFTP_INVALID_FILENAME The firmware file name is invalid.
0xC0B80010	ERR_TFTP_FILE_EXISTS The firmware file already exists.
0xC0B80011	ERR_TFTP_LOCAL_FILE_NOT_FOUND The file is not locally available.

Table 182: TFTP Stack error codes

6.13.2 TFTP Application

Hexadecimal value	Definition and description
0xC0B90001	ERR_TFTP_AP_COMMAND_INVALID Invalid command received.

Table 183: TFTP Application error codes

6.14 USB-TLR-Router Task

Hexadecimal value	Definition and description
0xC0440001	ERR_USB_TLRROUTER_COMMAND_INVALID Invalid command.

Table 184: USB-TLR-Router Task

6.15 HAL Toolbox

Hexadecimal value	Definition and description
0xC1060001	ERR_HAL_TOOLBOX_NOT_INITIALIZED HAL Toolbox not initialized
0xC1060002	ERR_HAL_TOOLBOX_INVALID_PORT_NUMBER Invalid port number
0xC1060003	ERR_HAL_TOOLBOX_INVALID_PHY_ADDRESS Invalid PHY address
0xC1060004	ERR_HAL_TOOLBOX_INVALID_REG_ADDRESS Invalid register address
0xC1060005	ERR_HAL_TOOLBOX_INVALID_DPM_WIDTH Invalid DPM width
0xC1060006	ERR_HAL_TOOLBOX_INVALID_XC_TYPE Invalid XC unit type
0xC1060007	ERR_HAL_TOOLBOX_XC_CODE_TOO_LARGE XC code does not fit in available memory
0xC1060008	ERR_HAL_TOOLBOX_INVALID_MAU_TYPE Invalid MAU type settings
0xC1060009	ERR_HAL_TOOLBOX_INVALID_BLINK_INTERVAL Invalid blink interval
0xC106000A	ERR_HAL_TOOLBOX_VALIDATION_FAILED Validation failed

Table 185: HAL Toolbox result codes

6.16 File System Abstraction Layer

Hexadecimal value	Definition and description
0xC10E0001	ERR_FILE_PATH_NOT_FOUND Path not found.
0xC10E0002	ERR_FILE_PATH_IN_USE Path is in use.
0xC10E0003	ERR_FILE_VOLUME_NOT_FOUND Volume not found.
0xC10E0004	ERR_FILE_PATH_ALREADY_EXISTS Path already exists.
0xC10E0005	ERR_FILE_NO_SPACE_LEFT No space left.
0xC10E0006	ERR_FILE_NOT_A_DIRECTORY Not a directory.
0xC10E0007	ERR_FILE_IS_A_DIRECTORY Is a directory.
0xC10E0008	ERR_FILE_PATH_IS_TOO_LONG Path is too long.
0xC10E0009	ERR_FILE_DIR_IS_NOT_EMPTY Directory is not empty.
0xC10E000A	ERR_FILE_TOO_MANY_OPEN_FILES Too many open files.
0xC10E000B	ERR_FILE_PATH_IS_INVALID Path is invalid.
0xC10E000C	ERR_FILE_NO_MORE_DIR_ENTRIES No more directory entries.
0xC10E000D	ERR_FILE_READ_ERROR Read Error.
0xC10E000E	ERR_FILE_WRITE_ERROR Write Error.
0xC10E000F	ERR_FILE_FUNCTION_NOT_SUPPORTED Function not supported.

Table 186: File System Abstraction Layer

7 cifX Device Driver

7.1 General error codes

Hexadecimal value	Definition and description
0x800A0001	CIFX_INVALID_POINTER Invalid pointer (e.g. NULL) passed to driver
0x800A0002	CIFX_INVALID_BOARD No board with the given name / index available
0x800A0003	CIFX_INVALID_CHANNEL No channel with the given index available
0x800A0004	CIFX_INVALID_HANDLE Invalid handle passed to driver
0x800A0005	CIFX_INVALID_PARAMETER Invalid parameter
0x800A0006	CIFX_INVALID_COMMAND Invalid command
0x800A0007	CIFX_INVALID_BUFFERSIZE Invalid buffer size
0x800A0008	CIFX_INVALID_ACCESS_SIZE Invalid access size
0x800A0009	CIFX_FUNCTION_FAILED Function failed
0x800A000A	CIFX_FILE_OPEN_FAILED File cannot not be opened
0x800A000B	CIFX_FILE_SIZE_ZERO File size is zero
0x800A000C	CIFX_FILE_LOAD_INSUFF_MEM Insufficient memory to load file
0x800A000D	CIFX_FILE_CHECKSUM_ERROR File checksum comparison failed
0x800A000E	CIFX_FILE_READ_ERROR Error while reading file
0x800A000F	CIFX_FILE_TYPE_INVALID Invalid file type
0x800A0010	CIFX_FILE_NAME_INVALID Invalid file name
0x800A0011	CIFX_FUNCTION_NOT_AVAILABLE Driver function not available
0x800A0012	CIFX_BUFFER_TOO_SHORT Given buffer too short
0x800A0013	CIFX_MEMORY_MAPPING_FAILED Memory mapping failed
0x800A0014	CIFX_NO_MORE_ENTRIES No more entries available
0x800A0015	CIFX_CALLBACK_MODE_UNKNOWN Unknown callback handling mode
0x800A0016	CIFX_CALLBACK_CREATE_EVENT_FAILED Creation of callback events failed

Hexadecimal value	Definition and description
0x800A0017	CIFX_CALLBACK_CREATE_RECV_BUFFER Creation of callback receive buffer failed
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

Table 187: cifX Device Driver - General error codes

7.2 Driver-related error codes

Hexadecimal value	Definition and description
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
0x800B0030	CIFX_DRV_DRIVER_NOT_LOADED CIFx driver is not running
0x800B0031	CIFX_DRV_INIT_ERROR Initialization of device failed
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

Table 188: cifX Device Driver - Driver-related error codes

7.3 Device/Communication-related error codes

Hexadecimal value	Definition and description
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 too short
0x800C0020	CIFX_DEV_RESET_TIMEOUT Reset command timeout
0x800C0021	CIFX_DEV_NO_COM_FLAG COM-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

Hexadecimal value	Definition and description
0x800C002D	CIFX_DEV_INITIALIZATION_TIMEOUT Timeout during channel initialization
0x800C002E	CIFX_DEV_BUS_STATE_ON_TIMEOUT 'Set Bus ON' Timeout
0x800C002F	CIFX_DEV_BUS_STATE_OFF_TIMEOUT 'Set Bus OFF' Timeout
0x800C0040	CIFX_DEV_MODULE_ALREADY_RUNNING Module already running
0x800C0041	CIFX_DEV_MODULE_ALREADY_EXISTS Module already exists
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 256 Byte)
0x800C0052	CIFX_DEV_DMA_BUFFER_TOO_BIG DMA buffers size too big (max. size 63.75 KByte)
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' Timeout

Table 189: cifX Device Driver - Device/Communication-related error codes

8 cifX API

8.1 Transport error codes

Hexadecimal value	Definition and description
0x800D0001	CIFX_TRANSPORT_SEND_TIMEOUT Timeout while sending data
0x800D0002	CIFX_TRANSPORT_RECV_TIMEOUT Timeout while waiting for incoming data
0x800D0003	CIFX_TRANSPORT_CONNECT Unable to communicate with device / no answer
0x800D0004	CIFX_TRANSPORT_ABORTED Transfer aborted due to keep-alive timeout or interface detachment
0x800D0005	CIFX_TRANSPORT_INVALID_RESPONSE Packet response rejected due to invalid packet data
0x800D0006	CIFX_TRANSPORT_UNKNOWN_DATA_LAYER The data layer provided by the device is not supported
0x800D0010	CIFX_CONNECTOR_FUNCTIONS_READ_ERROR Error while reading the connector functions from the DLL
0x800D0011	CIFX_CONNECTOR_IDENTIFIER_TOO_LONG Connector delivers an identifier longer than 6 characters
0x800D0012	CIFX_CONNECTOR_IDENTIFIER_EMPTY Connector delivers an empty identifier
0x800D0013	CIFX_CONNECTOR_DUPLICATE_IDENTIFIER Connector identifier already used

Table 190: cifX API - Transport error codes

8.2 Transport Header error codes

Hexadecimal value	Definition and description
0x800E0001	CIFX_TRANSPORT_ERROR_UNKNOWN Unknown error code in transport header
0x800E0002	CIFX_TRANSPORT_CHECKSUM_ERROR CRC16 checksum failed
0x800E0003	CIFX_TRANSPORT_LENGTH_INCOMPLETE Transaction of incomplete length detected
0x800E0004	CIFX_TRANSPORT_DATA_TYPE_UNKOWN Device does not support the requested data type
0x800E0005	CIFX_TRANSPORT_DEVICE_UNKNOWN Device not available/unknown
0x800E0006	CIFX_TRANSPORT_CHANNEL_UNKNOWN Channel not available/unknown
0x800E0007	CIFX_TRANSPORT_SEQUENCE Sequence error detected
0x800E0008	CIFX_TRANSPORT_BUFFEROVERFLOW Buffer overflow detected
0x800E0009	CIFX_TRANSPORT_RESOURCE Device signals 'out of resources'
0x800E000A	CIFX_TRANSPORT_KEEPLIVE Device connection monitoring error (Keep alive)
0x800E000B	CIFX_TRANSPORT_DATA_TOO_SHORT Transaction data received too short

Table 191: cifX API - Transport Header error codes

8.3 netX Connector error codes

Hexadecimal value	Definition and description
0x800F0001	NXCON_DRV_INVALID_POINTER Invalid pointer (e.g. NULL)
0x800F0002	NXCON_DRV_INVALID_PARAMETER netX Connector invalid parameters
0x800F0003	NXCON_DRV_NOT_INITIALIZED netX Connector not initialized
0x800F0004	NXCON_DRV_FUNC_NOT_IMPL netX Connector function not implemented
0x800F0005	NXCON_DRV_WAS_OPENED_BEFORE netX Connector was opened before
0x800F0006	NXCON_DRV_NOT_OPENED netX Connector was not opened
0x800F0007	NXCON_DRV_INIT_ERROR Initialization of netX Connector failed
0x800F0008	NXCON_DRV_NOT_START Start of netX Connector failed
0x800F0009	NXCON_DRV_SEND_ERROR Sending data failed
0x800F000A	NXCON_DRV_BUFFER_TOO_SHORT The supplied buffer was too short
0x800F000B	NXCON_DRV_DISABLED The connector is disabled
0x800F0010	NXCON_CONNECTOR_IDENTIFIER_EMPTY The connector identifier is empty
0x800F0011	NXCON_CONNECTOR_DUPLICATE_IDENTIFIER Duplicate connector identifier found
0x800F0012	NXCON_CONNECTOR_FUNCTIONS_READ_ERROR Reading of all connector functions failed
0x800F0020	NXCON_DRV_GETCOMMSTATE Reading of connector hardware status failed
0x800F0021	NXCON_DRV_SETCOMMSTATE Setup of connector hardware status failed
0x800F0022	NXCON_DRV_GETTIMEOUT Reading of connector hardware timeouts failed
0x800F0023	NXCON_DRV_SETTIMEOUT Setting of connector hardware timeouts failed
0x800F0024	NXCON_DRV_SETUPCOMBUFFER Setting of connector hardware buffers failed
0x800F0025	NXCON_DRV_SETUPCOMMASK Setting of connector hardware event masks failed
0x800F0026	NXCON_DRV_SETUPCOMHWSIGNAL Setting of connector hardware signals failed
0x800F0027	NXCON_DRV_SOCKETERROR Generic socket error
0x800F0028	NXCON_DRV_CONNECTION_FAILED Establishing the connection failed

Hexadecimal value	Definition and description
0x800F0029	NXCON_DRV_CONNECT_TIMEOUT Connection failed due to a timeout
0xC00F0100	NXCON_CONF_INVALID_KEY Supplied configuration key is invalid
0xC00F0101	NXCON_CONF_INVALID_VALUE Supplied configuration value is invalid
0xC00F0102	NXCON_CONF_INVALID_INTERFACE Supplied interface name is invalid
0xC00F0103	NXCON_CONF_READ_FAILED Reading of configuration failed
0xC00F0104	NXCON_CONF_WRITE_FAILED Writing of configuration failed

Table 192: netX Connector error codes

9 Appendix

9.1 Legal notes

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