Amtiri

REFERENCE MANUAL

Module Messages

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Every message a module can put into its warning, info or error variable, with the level that decides which of the three it lands in. The texts are English in every language: they are values a plant writes into its own variables, and a peer, a dashboard or a mail template reading them must find the same words everywhere.

A `{name}` in a text marks where the module substitutes a value — an address, a register, a count. The **Code** is an internal identifier: it is never written into a variable and never appears in a message, and it is here so that a message whose wording improves can still be recognised as the same condition.

A code has one row per sentence. Its first row is the general sentence, which a module writes when it has nothing more specific to say; the rows after it are the other sentences modules write under the same code. The **Modules** column names the module types that write each sentence, or `all` when the engine writes it for every type.

See Status and messages for how the variables are assigned, and Connectivity for what each status means on a link.

Code	Level	Text	Modules
`MODULE_OPENED`	`INFO`	`Module opened`	all
`MODULE_CLOSED`	`INFO`	`Module closed`	all
`ENGINE_STOPPED`	`INFO`	`Engine stopped`	all
`RECOVERED`	`INFO`	`Recovered after {n} failure(s) in {duration}`	all
`OPEN_FAILED`	`ERROR`	`Open failed: {reason}`	all
`CONFIG_INVALID`	`ERROR`	`Configuration invalid: {reason}`	all
`CONFIG_INVALID`	`ERROR`	`Configuration invalid: unsupported mode '{mode}'`	WEB_SERVICE_OUT
`CONFIG_INVALID`	`ERROR`	`Configuration invalid: timeout must be at least 1 ms, not {timeout}`	WEB_SERVICE_OUT
`CONFIG_INVALID`	`ERROR`	`No SMTP host`	MAILER
`CONFIG_INVALID`	`ERROR`	`No sender address`	MAILER
`CONFIG_INVALID`	`ERROR`	`Unsupported SMTP security '{security}'`	MAILER
`CONFIG_INVALID`	`ERROR`	`No host`	S7-Client, EIP-Client, IEC104-Client, NMEA-0183-Listener, NMEA-0183-Talker
`CONFIG_INVALID`	`ERROR`	`No endpoint URL`	OPCUA-Client
`CONFIG_INVALID`	`ERROR`	`No usable security policy: {policies}`	OPCUA-Server

`CONFIG_INVALID`	`ERROR`	`{field}: {type} is something a station reports, not a command this module can send`	IEC104-Client
`CONFIG_INVALID`	`ERROR`	`{field}: {type} is a command, and a collector reads rather than commands`	IEC104-Client
`CONFIG_INVALID`	`ERROR`	`{field}: a command point that is not writable can never do anything`	IEC104-Server
`CONFIG_INVALID`	`ERROR`	`No DBC file`	CAN-Signals
`CONFIG_INVALID`	`ERROR`	`DBC file: {reason}`	CAN-Signals
`CONFIG_INVALID`	`ERROR`	`No serial port`	NMEA-0183-Listener, NMEA-0183-Talker
`CONFIG_INVALID`	`ERROR`	`'{transport}' is not serial, tcp or udp`	NMEA-0183-Listener
`CONFIG_INVALID`	`ERROR`	`'{transport}' is not tcp-server, udp or serial`	NMEA-0183-Talker
`CONFIG_INVALID`	`ERROR`	`Cannot send to {host}: {reason}`	NMEA-0183-Talker
`LICENCE_REFUSED`	`ERROR`	`The licence does not admit this module`	all
`PROCESS_FAILED`	`WARNING`	`Notification failed: {reason}`	all
`PROCESS_FAILED`	`WARNING`	`Notification failed: processing {input}: {reason}`	MERGER
`CRON_INVALID`	`ERROR`	`Invalid schedule '{cron}': {reason}`	MB-TCP-Master, MB-SER-Master, SCHEDULER, DOPULL, DBREPLICATOR, OPCUA-Client, S7-Client, EIP-Client, IEC104-Client
`CRON_INVALID`	`ERROR`	`No schedule given`	MB-TCP-Master, MB-SER-Master, SCHEDULER, DOPULL, DBREPLICATOR, OPCUA-Client, S7-Client, EIP-Client, IEC104-Client
`CONNECTION_REFUSED`	`ERROR`	`Connection refused by {address}`	MB-TCP-Master
`NO_RESPONSE`	`ERROR`	`No response from {address}`	MB-TCP-Master
`NO_RESPONSE`	`ERROR`	`No response from {address} writing register {register}`	MB-TCP-Master
`NO_RESPONSE`	`ERROR`	`No response on {port}`	MB-SER-Master
`NO_RESPONSE`	`ERROR`	`No response on {port} writing register {register}`	MB-SER-Master
`MODBUS_EXCEPTION`	`WARNING`	`Modbus exception {code} ({meaning}) at register {register}`	MB-TCP-Master, MB-SER-Master
`CRC_ERROR`	`WARNING`	`Bad checksum on {n} frame(s)`	MB-SER-Slave
`CRC_ERROR`	`WARNING`	`Bad checksum on {port}`	MB-SER-Master
`CRC_ERROR`	`WARNING`	`Bad checksum from {address}`	MB-TCP-Master

`CRC_ERROR`	`WARNING`	`Bad checksum on {n} sentence(s)`	NMEA-0183-Listener, NMEA-0183-Talker
`REQUEST_INVALID`	`WARNING`	`Invalid request discarded: {reason}`	MB-TCP-Slave, IEC104-Server
`REQUEST_INVALID`	`WARNING`	`Invalid request discarded: {address} is not an allowed client`	IEC104-Server
`REQUEST_INVALID`	`WARNING`	`Invalid request discarded: {address} would be client {n} of {max}`	NMEA-0183-Talker
`PORT_OPENED`	`INFO`	`Serial port {port} opened`	MB-SER-Master, MB-SER-Slave
`PORT_BUSY`	`ERROR`	`Serial port {port} is busy`	MB-SER-Master, MB-SER-Slave
`PORT_NOT_FOUND`	`ERROR`	`Serial port {port} not found`	MB-SER-Master, MB-SER-Slave
`PORT_ACCESS_DENIED`	`ERROR`	`Access denied to serial port {port}`	MB-SER-Master, MB-SER-Slave
`PORT_LOST`	`WARNING`	`Serial port {port} lost`	MB-SER-Slave
`PORT_UNAVAILABLE`	`ERROR`	`Serial port {port} unavailable`	MB-SER-Slave
`BIND_FAILED`	`ERROR`	`Cannot listen on port {port}: {reason}`	MB-TCP-Slave, OPCUA-Server, IEC104-Server, NMEA-0183-Listener, NMEA-0183-Talker
`LISTENING`	`INFO`	`Listening on port {port}`	MB-TCP-Slave, OPCUA-Server, IEC104-Server, NMEA-0183-Listener, NMEA-0183-Talker
`CLIENT_CONNECTED`	`INFO`	`Client {address} connected`	MB-TCP-Slave, IEC104-Server, NMEA-0183-Talker
`CLIENT_DISCONNECTED`	`WARNING`	`Client {address} disconnected`	MB-TCP-Slave, IEC104-Server, NMEA-0183-Talker
`CONNECTED`	`INFO`	`Connected to {server}`	OPCUA-Client, S7-Client, EIP-Client, IEC104-Client, CAN-Raw, CAN-Signals, NMEA-2000, NMEA-0183-Listener, NMEA-0183-Talker
`SUBSCRIBED`	`INFO`	`Subscribed to {n} node(s)`	OPCUA-Client
`SUBSCRIBE_FAILED`	`WARNING`	`{n} of {total} node(s) refused by the server`	OPCUA-Client
`SUBSCRIBE_FAILED`	`WARNING`	`Subscription refused: {reason}`	OPCUA-Client
`DISCONNECTED`	`WARNING`	`Disconnected from {server}`	OPCUA-Client, S7-Client, EIP-Client, IEC104-Client, CAN-Raw, CAN-Signals, NMEA-2000, NMEA-0183-Listener, NMEA-0183-Talker
`SERVER_UNREACHABLE`	`ERROR`	`Server {server} unreachable`	OPCUA-Client, IEC104-Client
`SERVER_UNREACHABLE`	`ERROR`	`Server {server} unreachable: {reason}`	OPCUA-Client
`CERTIFICATE_UNTRUSTED`	`ERROR`	`Server certificate not trusted: {thumbprint}`	OPCUA-Client

`READ_FAILED`	`ERROR`	`Reading {node} failed: {reason}`	OPCUA-Client
`NODE_BAD_STATUS`	`WARNING`	`{node} returned {status}`	OPCUA-Client
`WRITE_REFUSED`	`WARNING`	`{node} refused the write: {reason}`	OPCUA-Client
`WRITE_REFUSED`	`WARNING`	`Writing {node} failed: {reason}`	OPCUA-Client, S7-Client, EIP-Client
`VALUE_REFUSED`	`WARNING`	`Variable {variable} refused the value: {reason}`	OPCUA-Client, OPCUA-Server, IEC104-Server
`VALUE_REFUSED`	`WARNING`	`Variable {variable} could not be published: {reason}`	OPCUA-Server
`ADDRESS_INVALID`	`ERROR`	`{mapping}: {reason}`	S7-Client, EIP-Client, CAN-Raw, NMEA-2000, NMEA-0183-Listener, NMEA-0183-Talker
`ADDRESS_INVALID`	`ERROR`	`{mapping}: an information object address is 0 to 16777215, not {ioa}`	IEC104-Client, IEC104-Server
`ADDRESS_INVALID`	`ERROR`	`{mapping}: '{type}' is not a type this module carries`	IEC104-Client, IEC104-Server
`ADDRESS_INVALID`	`ERROR`	`{mapping}: a forewarder sends one identifier, so its address cannot have a mask`	CAN-Raw
`ADDRESS_INVALID`	`ERROR`	`{mapping}: '{message}' is not a message of the DBC file`	CAN-Signals
`ADDRESS_INVALID`	`ERROR`	`{mapping}: {message} has no signal '{signal}'`	CAN-Signals
`ADDRESS_INVALID`	`ERROR`	`{mapping}: {message} is {n} bytes, and only a single-frame message is sent`	CAN-Signals
`ADDRESS_INVALID`	`ERROR`	`{mapping}: {signal} is the multiplexor, set by the signals it carries`	CAN-Signals
`ADDRESS_INVALID`	`ERROR`	`{mapping}: {pgn} is not a parameter group the catalogue defines`	NMEA-2000
`ADDRESS_INVALID`	`ERROR`	`{mapping}: {pgn} ({name}) has no field '{field}'`	NMEA-2000
`ADDRESS_INVALID`	`ERROR`	`{mapping}: {field} repeats, so it needs its position, {field}.1`	NMEA-2000
`ADDRESS_INVALID`	`ERROR`	`{mapping}: {field} repeats, and only the fields before a repeating set are sent`	NMEA-2000
`ADDRESS_INVALID`	`ERROR`	`{mapping}: src selects a sender, and this module sends as itself`	NMEA-2000
`ADDRESS_INVALID`	`ERROR`	`{mapping}: {sentence} is not a sentence this module reads`	NMEA-0183-Listener, NMEA-0183-Talker

`ADDRESS_INVALID`	`ERROR`	`{mapping}: {sentence} has no field '{field}'`	NMEA-0183-Listener, NMEA-0183-Talker
`ADDRESS_INVALID`	`ERROR`	`{mapping}: AIS is received, not sent`	NMEA-0183-Talker
`ADDRESS_INVALID`	`ERROR`	`{mapping}: {field} cannot be written into {sentence}`	NMEA-0183-Talker
`ADDRESS_INVALID`	`ERROR`	`{mapping}: a position needs both latitude and longitude`	NMEA-0183-Talker
`ADDRESS_INVALID`	`ERROR`	`{mapping}: '{talker}' is not a talker identifier`	NMEA-0183-Talker
`PLC_UNREACHABLE`	`ERROR`	`PLC {plc} unreachable`	S7-Client, EIP-Client
`TAG_REFUSED`	`WARNING`	`{address} returned {code}`	S7-Client, EIP-Client
`TAG_REFUSED`	`WARNING`	`{address} refused the write: {code}`	S7-Client, EIP-Client
`TAG_REFUSED`	`WARNING`	`{ioa} returned {type}, and the point is configured as {configured}`	IEC104-Client
`LINK_STOPPED`	`WARNING`	`The far end stopped data transfer: {reason}`	IEC104-Client
`SEQUENCE_ERROR`	`WARNING`	`Sequence out of step: {reason}`	IEC104-Client
`INTERROGATION_FAILED`	`WARNING`	`General interrogation did not complete: the station refused it`	IEC104-Client
`COMMAND_REFUSED`	`WARNING`	`Command to {ioa} refused: {reason}`	IEC104-Client, IEC104-Server
`COMMAND_REFUSED`	`WARNING`	`Command to {ioa} refused: the station returned a negative {cause}`	IEC104-Client
`COMMAND_REFUSED`	`WARNING`	`Command to {ioa} refused: the link is not up`	IEC104-Client
`QUALITY_INVALID`	`WARNING`	`{ioa} reported {quality}`	IEC104-Client
`BUS_UNAVAILABLE`	`ERROR`	`Bus {bus} unavailable: {reason}`	CAN-Raw, CAN-Signals, NMEA-2000, NMEA-0183-Listener, NMEA-0183-Talker
`BUS_ERROR_PASSIVE`	`WARNING`	`{bus} is error passive`	CAN-Raw, CAN-Signals, NMEA-2000
`BUS_OFF`	`ERROR`	`{bus} is bus-off`	CAN-Raw, CAN-Signals, NMEA-2000
`TRANSMIT_FAILED`	`WARNING`	`Transmitting {message} failed: {reason}`	CAN-Raw, CAN-Signals, NMEA-2000, NMEA-0183-Talker
`SENTENCE_INVALID`	`WARNING`	`{n} unreadable sentence(s) discarded: {reason}`	NMEA-0183-Listener, NMEA-0183-Talker
`ADDRESS_CLAIMED`	`INFO`	`Address {address} claimed`	NMEA-2000
`ADDRESS_UNCLAIMED`	`ERROR`	`No address could be claimed, so nothing is transmitted`	NMEA-2000

CLIENT_DROPPED	WARNING	Client {address} dropped: it did not keep up	NMEA-0183-Talker
PEER_UNKNOWN	ERROR	Peer '{peer}' is not defined	DOPUSH, DOPULL, DBREPLICATOR
PEER_UNKNOWN	ERROR	Peer '{peer}' is not defined (known: {peers})	DOPUSH, DOPULL, DBREPLICATOR
PEER_UNUSABLE	ERROR	Peer '{peer}' is disabled or has no secret	DOPUSH, DOPULL, DBREPLICATOR
PEER_REFUSED	ERROR	Peer '{peer}' refused the request: {reason}	DOPUSH, DOPULL, DBREPLICATOR
PEER_UNAVAILABLE	ERROR	Peer '{peer}' unavailable: {reason}	DOPUSH, DOPULL, DBREPLICATOR
PARTIAL_DELIVERY	WARNING	{n} of {total} variable(s) delivered	DOPUSH, DOPULL, DBREPLICATOR
VARIABLES_MISSING	WARNING	{n} variable(s) not defined on the peer	DOPULL
LOGGER_UNKNOWN	ERROR	Logger '{logger}' is not defined	DBREPLICATOR
TARGET_NOT_FOUND	ERROR	Target logger '{target}' not found on the peer	DBREPLICATOR
TARGET_DISABLED	ERROR	Target logger '{target}' is disabled on the peer	DBREPLICATOR
BACKLOG_PENDING	WARNING	Replication behind: more than {n} row(s) pending	DBREPLICATOR
CAUGHT_UP	INFO	Replication caught up	DBREPLICATOR
DATABASE_OPENED	INFO	Database {file} opened	LOGGER
DATABASE_UNAVAILABLE	ERROR	Database unavailable: {n} rows dropped	LOGGER
DATABASE_UNAVAILABLE	ERROR	Database unavailable: {reason}	LOGGER
QUEUE_BACKLOG	WARNING	Logging queue backlog: {n} row(s) waiting	LOGGER
HISTORY_JOB_RUNNING	INFO	History job running: {job}	LOGGER
HISTORY_JOB_FAILED	WARNING	History job failed: {job}: {reason}	LOGGER
HISTORY_LATE_ROWS	WARNING	{n} replicated row(s) arrived inside a compacted period of {variable}	LOGGER
NO_INPUTS	ERROR	No inputs	MERGER
NO_OUTPUT	ERROR	No output	MERGER
UNKNOWN_INPUT	ERROR	Input {input} is not a variable	MERGER
UNKNOWN_OUTPUT	ERROR	Output {output} is not a variable	MERGER

`FILTER_SYNTAX`	`ERROR`	`Filter does not compile: {reason}`	MERGER
`BOUND_NAME_COLLISION`	`WARNING`	`Variable {name} has the name of the bound value, so the filter cannot read it`	MERGER
`TYPE_NOT_ASSIGNABLE`	`WARNING`	`Input {input} ({from}) cannot be assigned to output {output} ({to})`	MERGER
`FILTER_FAILED`	`WARNING`	`Filter failed for {input}: {reason}`	MERGER
`FILTER_NOT_BOOLEAN`	`WARNING`	`Filter returned {type}, not a boolean`	MERGER
`OUTPUT_REFUSED`	`WARNING`	`Output {output} refused {value}: {reason}`	DELAY, FIFO, KALMAN, MERGER, PID, PWM, CAN-Raw, CAN-Signals, NMEA-2000, NMEA-0183-Listener, NMEA-0183-Talker
`OUTPUT_FAILED`	`WARNING`	`Writing output {output} failed: {reason}`	MERGER
`NO_SOURCE`	`ERROR`	`No source`	DELAY, FIFO
`NO_DESTINATION`	`ERROR`	`No destination`	DELAY, FIFO, KALMAN, PID, PWM
`UNKNOWN_PORT`	`ERROR`	`{field} {code} is not a variable`	DELAY, FIFO, KALMAN, PID, PWM
`SAME_VARIABLE`	`ERROR`	`Source and destination are the same variable`	DELAY, FIFO
`SOURCE_NOT_ASSIGNABLE`	`WARNING`	`Source {src} ({from}) cannot be assigned to destination {dst} ({to})`	DELAY, FIFO
`QUEUE_FULL`	`WARNING`	`Event queue full: {count} events pending, {dropped} dropped`	DELAY, FIFO, KALMAN, PID, PWM, CAN-Raw, CAN-Signals, NMEA-2000, NMEA-0183-Listener, NMEA-0183-Talker
`DELAY_INVALID`	`ERROR`	`Delay must be an integer from 1 to 604800000 ms, not {value}`	DELAY
`MAX_LINES_INVALID`	`ERROR`	`Max lines must be an integer of at least 1, not {value}`	FIFO
`MAX_LINES_TOO_HIGH`	`ERROR`	`Max lines must be at most 10000, not {value}`	FIFO
`TIME_TO_LIVE_INVALID`	`ERROR`	`Time to live must be an integer of at least 0, not {value}`	FIFO
`TIME_UNIT_INVALID`	`ERROR`	`Time unit must be ms, s or d, not {value}`	FIFO
`DESTINATION_NOT_ROWS`	`WARNING`	`Destination {dst} ({type}) cannot hold a list of rows with a time and a value`	FIFO

`PERSISTENT_ROWS_LARGE`	`WARNING`	`Destination {dst} is persistent, so its entity file is rewritten with up to {n} rows on every change`	FIFO
`OUTPUT_IS_INPUT`	`ERROR`	`{setting} cannot read the output {code}`	KALMAN, PID, PWM
`PART_NOT_DISTINCT`	`ERROR`	`{part} part {code} must be a variable of its own`	PID
`GAIN_INVALID`	`ERROR`	`{gain} must be a number of at least 0, not {value}`	PID
`NUMBER_INVALID`	`ERROR`	`{field} must be a number, not {value}`	PWM
`OUTPUT_RANGE_INVALID`	`ERROR`	`Output minimum {min} must be below output maximum {max}`	PID
`ACTION_INVALID`	`ERROR`	`Action must be reverse or direct, not {value}`	PID
`PERIOD_INVALID`	`ERROR`	`Period must be an integer from {min} to 3600000 ms, not {value}`	KALMAN, PID, PWM
`INPUT_RANGE_INVALID`	`ERROR`	`Input minimum and maximum must differ, both are {value}`	PWM
`MIN_TOGGLE_INVALID`	`ERROR`	`Minimum toggle must be from 0 to below half the period, not {value}`	PWM
`NOISE_INVALID`	`ERROR`	`{field} must be a number above 0, not {value}`	KALMAN
`NO_SETTING`	`ERROR`	`No {setting}`	KALMAN, PID, PWM
`SETTING_SYNTAX`	`ERROR`	`{setting} does not compile: {reason}`	KALMAN, PID, PWM
`DESTINATION_NOT_NUMERIC`	`WARNING`	`Destination {dst} ({type}) cannot hold a number`	KALMAN, PID
`DESTINATION_NOT_BOOLEAN`	`WARNING`	`Destination {dst} ({type}) cannot hold on/off`	PWM
`SETTING_FAILED`	`WARNING`	`{setting} failed: {reason}`	KALMAN, PID, PWM
`SETTING_FAILED`	`WARNING`	`{setting} failed: {value} is not a number`	KALMAN, PID, PWM
`GAIN_NEGATIVE`	`WARNING`	`{gain} gave {value}, below 0`	PID
`OUTPUT_RANGE_EMPTY`	`WARNING`	`Output minimum {min} is not below output maximum {max}`	PID
`NOISE_NOT_POSITIVE`	`WARNING`	`{field} gave {value}, not above 0`	KALMAN
`SMTP_AUTH_REFUSED`	`ERROR`	`The mail server refused the credentials`	MAILER
`SEND_FAILED`	`ERROR`	`Mail delivery failed: {reason}`	MAILER

`HTTP_STATUS`	`ERROR`	`HTTP {status} from {url}`	WEB_SERVICE_OUT
`REQUEST_FAILED`	`ERROR`	`Request to {url} failed: {reason}`	WEB_SERVICE_OUT

This page describes Data Orchester engine 6.21.0.