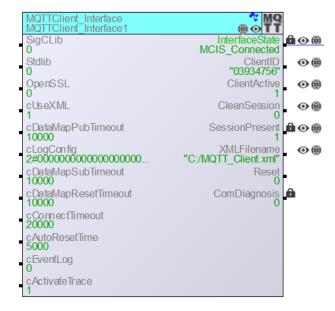


MQTTClient_Interface



This class provides interfaces for the MQTT client. The client is configured through an ".xml" file stored in the control or through the MQTTClient_Interface_Config(Base) class. An example of such an ".xml" file can be found in the appendix at the end of this document.



Interfaces

Clients

SigCLib	Object channel to the SigCLib class. Does not have to be connected.		
	Data type	DINT	
Otall 3b	Object ob accordant to a	Mall the along Door with house to be accounted.	
StdLib	,	StdLib class. Does not have to be connected.	
	Data type	DINT	
OpenSSL	Object channel to the O	OpenSSL class. Does not have to be connected.	
	Data type	DINT	
cUseXML	The user can specify w 1 – Use XML file 0 – Do not use XML file	rhether an XML File should be read on this client:	
	Data type	DINT	
cLogConfig	This client shows the current logging configuration.		
	The logging information can be set by:		
	Initializing this client		
	2. Configuration via the .xml file		
	Data type	MQTTClient_Interface::t_bd_LogConfig	
cDataMapPubTimeout	Timeout for the interface publish procedure. (ms)		
	Data type	UDINT	
cDataMapSubTimeout	Timeout for the interface subscribe procedure. (ms)		
	Data type	UDINT	
cConnectTimeout	Communication timeout. (ms)		
	Data type	UDINT	

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Servers

State	This server can be used to call the global methods of the class.				
Otato	Shows the current status of the MQTT client interface.				
	Unit - Data type MQTTCli- ent_Interface::t_e _MQTTClientStat es				
	Value range	0-6	Write Protected	TRUE	
	Default value.	-	Retentive	FALSE	
ClientID	The MQTT client ID from the .xml file.	must be defined h	ere. This ID must be ur	nique in the system. Set	
			Т		
	Unit	-	Data type	String	
	Value range	-	Write Protected	FALSE	
	Default value.	-	Retentive	FALSE	
ClientActive	Via this server, the MQTT client can be activated and deactivated.				
	0deactivated 1activated.				
	Unit - Data type DINT				
	Value range 0-1 Write Protected FALSE		FALSE		
	Default value Retentive FALS		FALSE		
CleanSession	Here, whether the session from the MQTT client should be stored on the server can be set (e.g. subscribed topics)				
	OThe MQTT server should save the current session from the client if the connection is lost.				
	1The MQTT server discards the previous session if a new connection is made or the connection is lost.				
	This setting is only used while creating the connection.				
	Unit - Data type DINT				
	Value range	0-1	Write Protected	FALSE	
	Default value Retentive FALSE		FALSE		
SessionPresent	Indicates whether an active session was stored on the MQTT server.				



	MQ11Ollent_interface				
	Ono session from the client is stored 1a session from the client is available on the server.				
	Unit	-	Data type	DINT	
	Value range	0-1	Write Protected	TRUE	
	Default value.	-	Retentive	FALSE	
XMLFilename	Here, the path of the ".xml" file for configuring the MQTT client must be defined. (Including file name and ending.)				
	Unit	-	Data type	String	
	Value range	-	Write Protected	FALSE	
	Default value.	"C:/MQTT_C lient.xml"	Retentive	FALSE	
Reset	Via this server, the class can be reset from the error status. The MQTT client is thereby reinitialized. Must be set to 1.				
	Unit - Data type DINT				
	Value range	-	Write Protected	FALSE	
	Default value.	-	Retentive	FALSE	
ComDiagnosis	Server to connect the command channel of the ComDiagnosis_MQTT object to. This server contains the required NewInst() methods for the functioning of the object.				
	Unit	-	Data type	DINT	
	Value range	-	Write Protected	FALSE	
	Default value.	-	Retentive	FALSE	

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Global Methods

Init	Class initialization method. Allocate from memory.	
CyWork	Internal routine call	
MQTT_ReadXML	Can be called to reread the configuration of the ".xml" file. The MQTT client is thereby reinitialized.	
	■ bReadStarted (BOOL)	Truereading of the configuration file was enabled Falsereading the configuration file could not be enabled
MQTT_ReadLogConfig	With this method, the I client.	ogging configuration can be reread from the cLogConfig
	■ bUpdated (BOOL)	Truelogging configuration was updated Falselogging configuration could not be updated
MQTT_Subscribe	With this method, the user subscribes to a specific topic.	
	► pTopic (^UINT)	Pointer to the topic name
	▶ iQoS (INT)	Here, the "Quality of Service" for data transfer can be set. This is always between a client and server (Broker). 0Data are sent once, at most. The recipient does not confirm receiving the data. Provides the same guarantee as the underlying TCP protocol. 1Data are sent once, at least. The sender waits for confirmation from the recipient. If no confirmation is given within a specified time, the data are sent again. It is possible that the same data are frequently sent and received. 2Data are sent exactly once. Here, that the recipient receives the message exactly one time is ensured. Note: The higher the "Quality of Service" is set, the longer it takes to process the sending are receiving routines.



viQ i i Cilent_interiace		200112121
	▶ pThis (^VOID)	The pointer from the object calling.
	► pCallback (^VOID)	Pointer to the callback method of the object calling. Information on the subscribed topic is sent via the callback. See the appendix for the callback structure.
	► pMid (^INT)	Pointer to a variable, in which the message ID should be stored.
	► pApplMsgID (^UDINT)	Pointer to a variable, in which the internal applications message ID should be stored.
		This ID can be used for the MQTT_Unsubscribe function.
	✓ retcode (INT):	0successful 1no memory available for further login. 3an error has occurred.
MQTT_Unsubscribe	With this method, the user can unsubscribe from a specific topic.	
	► pApplMsgID (^UDINT)	Pointer to a variable where the internal application message ID was stored. (MQTT_Subscribe)
		If the parameter pTopic is set, this ID is not required.
	► pTopic (^UINT)	Pointer to the topic name
		If the parameter pApplMsgID is set, the name is not required.
	► pMid (^INT)	Pointer to a variable, in which the message ID should be stored.
	► pThis (^VOID)	The pointer from the object calling.
	► pCallback (^VOID)	Pointer to the callback method of the object calling. Information on the cancellation is sent via the callback.
		See the appendix for the callback structure.
	✓ retcode (INT):	Osuccessful 1no memory available in message buffer. 3invalid input parameter 4no connection to the MQTT server
MOTT Bublish	With this mathed date.	
MQTT_Publish	vvitn this method, data	for a specific topic can be sent.

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► pTopic (^UINT)	Pointer to the topic name
▶ iQoS (INT)	Here, the "Quality of Service" for data transfer can be set. This is always between a client and server (Broker).
	0Data are sent once, at most. The recipient does not confirm receiving the data. Provides the same guarantee as the underlying TCP protocol.
	Data are sent once, at most. The sender waits for confirmation from the recipient. If no confirmation is given within a specified time, the data are sent again. It is possible that the same data are frequently sent and received.
	2Data are sent exactly once. Here, that the recipient receives the message exactly one time is ensured.
	Note: The higher the "Quality of Service" is set, the longer it takes to process the sending are receiving routines.
► pPayload (^VOID)	Pointer to the data that should be sent.
► udPayloadLen (UDINT)	Data length in bytes
► bRetain (BOOL)	Here, whether the data sent to the server for a specific topic (Publish) should be stored. If a new client logs into this topic, it is sent the most recently data stored. Otherwise, the new client only receives data as soon as something is set to this topic.
	False…data are not stored True…data are stored
► pThis (^VOID)	The pointer from the object calling.
► pCallback (^VOID)	Pointer to the callback method of the object calling. Via the callback, information is provided for sending. See the appendix for the callback structure.
► pMid (^INT)	Pointer to a variable, in which the message ID should be stored.
► pApplMsgID (^UDINT)	Pointer to a variable, in which the internal applications message ID should be stored.



wat relient_interface		
MQTT_SetCleanSession	▼ retcode (INT): With this method, all open "Publish" & "Subscribe" pr	0successful 1no memory available 3input parameter invalid 4no connection to the MQTT server 18topic name is not formatted correctly. (Unicode) sessions can be deleted. All elements entered for the ocesses are removed.
	■ bOk (BOOL)	Trueall sessions were deleted Falsedeleting the sessions failed
Logging_CreateLog	With this method, log entri	ies can be created.
	▶ usLevel (USINT)	Log entry level:
		Info (2#00001) Warning (2#00100) Error (2#01000) Debug (2#10000)
	► udMsgGroup (UDINT)	Message group number
	► udMsgNbr (UDINT)	Message number
	► pMsg (^CHAR)	Pointer to the message text
	▶ pPara1 (^DINT)	Pointer to an optional parameter
	▶ pPara2 (^DINT)	Pointer to an optional parameter
	► pPara3 (^DINT)	Pointer to an optional parameter
	▶ pPara4 (^DINT)	Pointer to an optional parameter
Log- ging_GetLastClientEvent	This method delivers the last Event that was logged by the MQTTClient object.	
	▶ pGroup (DINT)	Pointer to the DINT variable where the Group number of the last event must be written.
	► pMessage (DINT)	Pointer to the DINT variable where the Message number of the last event must be written.
	► Level (DINT)	Level of the last event of which the Group and Message numbers should be written.
	■ bOK (BOOL)	TrueOK
	T	

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		FalsepGroup = NIL / pMessage = NIL.
Log- ging_GetLastInterfaceEve nt	This method delivers the last Event that was logged by the MQTTClient_Interface object.	
	▶ pGroup (DINT)	Pointer to the DINT variable where the Group number of the last event must be written.
	► pMessage (DINT)	Pointer to the DINT variable where the Message number of the last event must be written.
	► Level (DINT)	Level of the last event of which the Group and Message numbers should be written.
	■ bOK (BOOL)	TrueOK FalsepGroup = NIL / pMessage = NIL.
Log-	This method delivers the las	st Event that was logged by an MQTTTopic object.
ging_GetLastTopicEvent	▶ pGroup (DINT)	Pointer to the DINT variable where the Group number of the last event must be written.
	► pMessage (DINT)	Pointer to the DINT variable where the Message number of the last event must be written.
	► Level (DINT)	Level of the last event of which the Group and Message numbers should be written.
	◀ bOK (BOOL)	TrueOK FalsepGroup = NIL / pMessage = NIL.
Log- ging_GetLastGlobalEvent	This method delivers the last Event that was logged by the any class connected to the MQTTClient_Interface object.	
	▶ pGroup (DINT)	Pointer to the DINT variable where the Group number of the last event must be written.
	▶ pMessage (DINT)	Pointer to the DINT variable where the Message number of the last event must be written.
	► Level (DINT)	Level of the last event of which the Group and Message numbers should be written.
	◀ bOK (BOOL)	TrueOK FalsepGroup = NIL / pMessage = NIL.



Appendix

Definition of the Callback for the MQTT_Subscribe(), MQTT_Unsubscribe() and MQTT_Publish() Methods:

```
FUNCTION GLOBAL MQTTTopic::PubSubData_Callback

VAR_IMPUT

pThis : ^void;

MsgType : MQTTClient_Interface::t_e_PubSubRetCodes;
iMid : INT;
iGrantedQoS : INT;
pMessage : ^MQTTClient::t_s_MQTTMessage;
END_VAR
```

pThis (^VOID)	Pointer to the object	
MsgType (t_e_PubSubRetCodes)	Message type:	
	PSRC_Subscribedreturn message for Subscribe process.	
	PSRC_Subscribedreturn message for Unsubscribe process.	
	PSRC_PublishReveivedretain data from "subscribed" topic.	
	PSRC_PublishedReturn message for Publish process	
	PSRC_DisconnectedMQTT Client was disconnected	
iMid (INT)	Message ID	
iGrantedQoS (INT)	Guaranteed Quality of Service from MQTT server.	
	If this value is 16#80 the MsgType is PSRC_Subscribed, the "Subscribe" process has failed.	
pMessage (^t_s_MQTTMessage)	Pointer to the message structure.	

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Sample for the configuration.xml file:

```
<?xml version="1.0" encoding="UTF-8"?>
<MQTTClient>
 <Config>
  <ClientID>UniqueID</ClientID>
  <Connection>
   <hostname>10.10.55.50</hostname>
   <port>1883</port>
   <username>username</username>
   <password>sigmatek</password>
   <keepalive>60</keepalive>
   <max_inflight_messages>20</max_inflight_messages>
  </Connection>
  <Reconnection>
   <min_interval>3</min_interval>
   <max_interval>30</max_interval>
   <exponential scale>1</exponential scale>
  </Reconnection>
 <TLS>
   <cafile>ca.crt</cafile>
   <certfile>certfile.cert</certfile>
   <keyfile>keyfile.key</keyfile>
   <pw>password</pw>
  </TLS>
  <Logging>
   <info>1</info>
   <notice>1</notice>
   <warning>1</warning>
   <error>1</error>
   <debugging>1</debugging>
  </Logging>
  <Will>
   <topic>MyLastTopicWill</topic>
   <payloadtext>My belongings will be handed to...</payloadtext>
   <qos>2</qos>
   <retain>0</retain>
  </Will>
 </Config>
```



```
<DataMap>
  <topicsection name="FirstTopicPart">
   <topicsection name="SecondTopicPart">
    <topicsection name="ThirdTopicPart">
     <topicsection name="FourthTopicPart">
       <topicendpoint name="TopicNameDINT" element="Objectname.Servername1" operation="subscribe"
        datatype="dint" gos="2" retain="false"/>
       <topicendpoint name="TopicNameUDINT" element="Objectname.Servername2" operation="poll"</pre>
        interval="500" datatype="udint" gos="2" retain="true"/>
       <topicendpoint name="TopicNameREAL" element="Objectname.Servername3" operation="change"
        interval="500" datatype="real" gos="1" retain="true"/>
      <topicendpoint name="TopicNameString" element="Objectname.Servername4" operation="change"
        interval="500" datatype="string" gos="0" retain="false"/>
     </topicsection>
    </topicsection>
   </topicsection>
  </topicsection>
 </DataMap>
</MQTTClient>
```

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Elements	Description
<mqttclient></mqttclient>	First element
<config></config>	The configuration area begins here
<clientid></clientid>	Here, the unique ID for the MQTT client must be set
<connection></connection>	The area for the connection parameters begins here
<hostname></hostname>	The MQTT server address must be entered here.
<port></port>	Here, the MQTT server port must be entered
<username></username>	If required, a user name can be entered here
<password></password>	If required, a password can be entered here
<keepalive></keepalive>	Specifies in seconds, how often a Keep Alive packet is sent
<max_inflight_messages></max_inflight_messages>	Here, how many messages can be processed at one time is defined
<reconnection></reconnection>	The area for the reconnection parameters begins here
<min_interval></min_interval>	Specifies the minimum connection attempt intervals in seconds
<max_interval></max_interval>	Specifies the maximum connection attempt intervals in seconds
<exponential_scale></exponential_scale>	Specifies whether the connection attempt should increase exponentially.
<tls></tls>	The area for TLS encryption parameters begins here. (optional)
<cafile></cafile>	Path of the PEM encoded CA certificate file, which contains the trusted "Root Server". If not path is specified, the default certificate under the path C:\LSLSYS\SSL\ is used.
<certfile></certfile>	Path to an optional PEM encoded file, which contains the client certificate (certificate chain). This file must be stored in the directory C:\LSLSYS\SSL\. The path cannot exceed a length of 255 characters. If a path is sent, a valid "key" file must be included (<keyfile>)</keyfile>
<keyfile></keyfile>	Path of a PEM encoded file, which contains the "private keys" for the client. This file must be stored in the directory C:\LSLSYS\SSL\. The path cannot exceed a length of 255 characters.
<pw></pw>	Optional password used for encrypting the "key" file. The password cannot exceed a length of 1023 characters.
<logging></logging>	The area for the logging parameters begins here
<info></info>	Indicates whether messages from the Info level should be logged.
<notice></notice>	Indicates whether messages from the Notice level should be logged.
<warning></warning>	Indicates whether messages from the Warning level should be logged.
<error></error>	Indicates whether messages from the Error level should be logged.
<debugging></debugging>	Indicates whether messages from the Debug level should be logged.
<will></will>	Here, the area for "Will" parameters begins. (optional) If the MQTT server loses the connection to the MQTT client, the server writes the "Will" messages of the client to the defined topic.



<topic></topic>	Topic name for the last will
<payloadtext></payloadtext>	Last will message
<qos></qos>	Quality of Service for the last will
<retain></retain>	Indicates whether the last will should be stored in the MQTT server.
<datamap></datamap>	Here, the area for data mapping begins. (optional)
<topicsection></topicsection>	Topic name. If multiple <topicsection> are nested, the topic name is always expanded until the next <topicendpoint></topicendpoint></topicsection>
<topicendpoint></topicendpoint>	The element to map
	name last part of the topic name. Attached to the nesting of <topicsection>.</topicsection>
	element reference to the element (objectname.servername)
	operation defines the operation for the element. (subscribe, poll (element sent in interval), change (element sent when changed))
	interval interval time for the operation poll and change. [ms]
	datatype dint, udint, real, string
	qos Quality of Service
	retain indicates whether the message should be stored in the MQTT server.

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Definition of the logging entries that can be created in the MQTT Package:

MQTTTopic

	ТОРІС		
Group	Number	<u>Type</u>	<u>Text</u>
			Subscribe: Executing the Subscribe method in the MQTTClient_Interface
30	0	ERROR	failed. Para1=Mid, Para2 = MQTTClient_interface::MQTT_Subscribe() Retcode.
			Subscribe: The MQTTTopic instance subscription has failed. Para1=Last Ap-
30	1	ERROR	plMsglD
			Subscribe: Waiting for the Subscription confirmation timed out. The
30	2	ERROR	MQTTTopic instance is now in error state. Para1 = Last ApplMsgID
			Unsubscribe: Executing the Unsubscribe method in the MQTTClient_Interface
			failed. The MQTTTopic instance is now in error state. Para1 = RetCode. Para2
30	3	ERROR	= Last ApplMsgID
			Unsubscribe: Waiting for the Unsubscribe Confirmation timed out. the
30	4	ERROR	MQTTTopic instance is now in error state. Para1 = Last ApplMsgID
			Publish: The User passed NIL data to the User_GetPublishData() method, the
30	5	ERROR	publish cannot continue, the MQTTTopic instance is now in Error State.
			Publish: Executing the Publish method in the MQTTClient_Interface failed.
30	6	ERROR	Para1=Retcode. Para2=ApplMsgID
			Publish: Waiting for the Publish confirmation timed out. The MQTTTopic
30	7	ERROR	instance is now in Error State. Para1=Last ApplMsgID. Para2=mid
			Subscribe: The MQTTTopic instance is now Subscribed. Para1=Mid, Pa-
32	2000	INFO	ra2=Granted QoS
32	2001	INFO	Unsubscribe: The MQTTTopic instance is now Unsubscribed. Para1=Mid
32	2002	INFO	Subscribe: Data has been received on the subscribed topic. Para1=Mid
			Publish: The Publish by the MQTTTopic instance has completed successfully.
32	2003	INFO	Para1=Mid
			Connection: The MQTT Client has been disconnected, the MQTTTopic in-
32	2004	INFO	stance is now waiting for a new connection. Para1= Last ApplMsgID
			Publish: The Publish interval has passed, the MQTTTopic instance will now
32	2005	INFO	attempt to publish.
			Publish: The Publish Data has chnaged, the MQTTTopic instance will now
32	2006	INFO	attempt to publish.
			Publish: The Manual Publish method has been called, the MQTTTopic instance
32	2007	INFO	will now attempt to publish.
			FSM: The MQTTTopic instance Config has changed, the instance will no rei-
32	2008	INFO	nitialize. Para1 = Last ApplMsgID
			FSM: The MQTTTopic instance error has been resetted. Para1= Last ApplMs-
33	3000	DEBUG	gID



MQTTClient

Group	Number	Туре	<u>Text</u>
			TCP: Receiving MQTT Packet timed out, packet dropped.
20	0	ERROR	Para1=Packet ID
			Publish: QoS 2 Outgoing Publish, PUBCOMP Max Retries
20	1	ERROR	reaced, Packet Dropped. Para1=PacketID
	_		Publish: QoS 2 Outgoing Publish, PUBREL Max Retries
20	2	ERROR	reaced, Packet Dropped. Para1=PacketID
20	2	EDDOD	Publish: QoS 2 Outgoing Publish, PUBREL Insert into Packet
20	3	ERROR	Queue Failed, Dropped. Para1=PacketID
20	4	ERROR	Publish: QoS 2 Outgoing Publish, PUBREC Max Retries reaced, Packet Dropped. Para1=PacketID
20		LKKOK	Publish: QoS 2 Outgoing Publish, PUBLISH Max Retries
20	5	ERROR	reaced, Packet Dropped. Para1=PacketID
		2	Publish: QoS 2 Outgoing Publish, PUBLISH Insert into Packet
20	6	ERROR	Queue Failed, Dropped. Para1=PacketID
			Publish: QoS 1 Outgoing Publish, PUBACK Max Retries
20	7	ERROR	reached, Packet Dropped. Para1=PacketID
			Publish: QoS 1 Outgoing Publish, PUBLISH Max Retries
20	8	ERROR	Reached, Packet Dropped. Para1=PacketID
			Publish: QoS 1 Outgoing Publish, PUBLISH Insert Packet into
20	9	ERROR	Packet Queue failed, Dropped. Para1=PacketID
			Publish: QoS 0 Outgoing Publish, PUBLISH Max Retries
20	10	ERROR	Reached, Packet Dropped. Para1=PacketID
20	11	EDDOD.	Publish: QoS 0 Outgoing Publish, Message Insert Packet into Packet Queue Failed, Dropped. Para1=PacketID
20	11	ERROR	Publish: QoS 2 Incoming Publish, sending PUBCOMP max
20	12	ERROR	retries reached, dropped. Para1=PacketID.
20		Limon	Publish: QoS 2 Incoming Publish, inserting PUBCOMP into
20	13	ERROR	Packet Queue failed, dropped. Para1=PacketID
		-	Publish: QoS 2 Incoming Publish, waiting for PUBREL maxi-
20	14	ERROR	mum retries reached, dropped. Para1=PacketID.
			Publish: QoS 2 Incoming Publish, sending PUBREC maximum
20	15	ERROR	retries reached, dropped. Para1=PacketID.
			Publish: QoS 2 Incoming Publish, failed to insert PUBREC
20	16	ERROR	response message into Message Queue. Para1=PacketID
20	47	50000	Publish: QoS 1 Incoming Publish, sending PUBACK max
20	17	ERROR	retries reached, dropped. Para1=PacketID.
20	18	ERROR	Publish: QoS 1 Incoming Publish, could not insert the PUBACK into the Packet Queue, dropped. Para1=PacketID.
20	16	ENNON	Unsubscribe: Outgoing Unsubscribe, sending UNSUBSCRIBE
20	19	ERROR	Packet max retries reached, dropped. Para1=PacketID.
	15	2	Subscribe: Outgoing Subscribe, sending SUBSCRIBE Packet
20	20	ERROR	max retries reached, dropped. Para1=PacketID.
			Publish: Incoming Publish Message, input values not valid,
20	21	ERROR	packet dropped. Para1=QoS.
			Publish: Incoming Publish Message, adding inflight message
20	22	ERROR	failed, Packet Dropped. Para1=PacketID.

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			Publish: Incoming PUBCOMP Message, incorrect size mes-
20	23	ERROR	sage received, message not interpreted, dropped.
			Publish: Incoming PUBCOMP Message, corresponding
20	24	ERROR	PUBLISH message not found, dropped. Para1=PacketID.
			Publish: Incoming PUBCOMP Message, corresponding
20	25	ERROR	message state not OK. Para1=PacketID.
			Publish: Incoming PUBREL Message, incorrect size message
20	26	ERROR	received, message not interpreted, dropped.
			Publish: Incoming PUBREL Message, corresponding PUB-
20	27	ERROR	LISH not found, PUBCOMP dropped. Para1=PacketID.
			Publish: Incoming PUBREL Message, corresponding mes-
20	28	ERROR	sage state not OK. Para1=PacketID.
			Publish: Incoming PUBREC Message, incorrect size message
20	29	ERROR	received, message not interpreted, dropped.
			Publish: Incoming PUBREC Message, corresponding PUB-
20	30	ERROR	LISH not found, PUBCOMP dropped. Para1=PacketID.
			Publish: Incoming PUBREC Message, corresponding mes-
20	31	ERROR	sage state not OK. Para1=PacketID.
			Publish: Incoming PUBACK Message, incorrect size message
20	32	ERROR	received, message not interpreted, dropped.
			Publish: Incoming PUBACK Message, corresponding PUB-
20	33	ERROR	LISH not found, dropped. Para1=PacketID.
			Publish: Incoming PUBACK Message, corresponding mes-
20	34	ERROR	sage state not OK. Para1=PacketID.
			Unsubscribe: Incoming UNSUBACK Message, incorrect size
20	35	ERROR	message received, message not interpreted, dropped.
			Unsubscribe: Incoming PUBACK Message, corresponding
20	36	ERROR	PUBLISH not found, dropped. Para1=PacketID.
			Subscribe: Incoming SUBACK Message, incorrect size mes-
20	37	ERROR	sage received, message not interpreted, dropped.
	0,	21111011	Subscribe: Incoming SUBACK Message, corresponding
20	38	ERROR	SUBSCRIBE not found, dropped. Para1=PacketID.
			Subscribe: Incoming SUBACK, 0 granted QoS Pairs received,
20	39	ERROR	Dropped. Para1=PacketID.
	33	Linion	Keepalive: Incoming PINGREQ Message, incorrect data
20	40	ERROR	length, message dropped.
20	40	ERROR	Connection: Incoming CONNACK Message, Incorrect state -
			CONNACK Unexpected, message has been dropped. Pa-
20	41	ERROR	ra1=Retcode
20	71	LINION	Connection: Incoming CONNACK Message, Unexpected
20	42	ERROR	RetCode, Connection Failed. Para1=Retcode.
20	42	LKKOK	KeepAlive: Outgoing PINGRESP Message, Failed to add to
20	43	ERROR	Inflight Messages, Packet Dropped.
20	43	LNNUN	KeepAlive: Outgoing PINGREQ Message, Failed to add to
20	44	ERROR	Inflight Messages, Packet Dropped.
20	44	ENNUK	TCP: TCP Connection Dropped. Para1=TCP ErrorGroup,
20	45	EDDOD	
20	45	ERROR	Para2=TCP ErrorCode. Para3=_FSM_TCP_USER.
		EDDOD	TCP: TCP Packet append failed, packet dropped. Pa-
20	46	ERROR	ra1=Incoming PacketQueueID. Para2=AvailableBytes.



20		50000	TCP: TCP Communication, Socket Error. Pa-
20	47	ERROR	ra1=PacketQueue Return. Para2=Packet Len.
			MQTT: MQTT Incoming Packet Queue, client received
20	48	ERROR	unknown packet, Protocol Error. Dropped.
			MQTT: MQTT Incoming Packet Queue, client received
20	49	ERROR	DISCONNECT, Protocol Error. Dropped.
			MQTT: MQTT Incoming Packet Queue, client received
20	50	ERROR	UNSUBSCRIBE, Protocol Error. Dropped.
			MQTT: MQTT Incoming Packet Queue, client received
20	51	ERROR	SUBSCRIBE, Protocol Error. Dropped.
			MQTT: MQTT Incoming Packet Queue, client received
20	52	ERROR	CONNECT, Protocol Error. Dropped.
			MQTT: MQTT Incoming Packet Queue, Decoding packet
20	53	ERROR	length failed, packet dropped.
			TCP: TCP Communication, failed to send packet, data
20	54	ERROR	dropped. Para1=MessageID. Para2=TCP SendData Retcode.
			Connection: Disconnect procedure, sending DISCONNECT
20	55	ERROR	timed out, Disconnected.
			Connection: Connect procedure, adding CONNECT Packet
20	56	ERROR	to Packet Queue Failed, reconnecting.
			TCP: Connecting procedure, creating TCP connection timed
20	57	ERROR	out, reconnecting.
			TCP: Connecting procedure, adding TCP connection failed,
20	58	ERROR	reconnecting. Para1=TCP AddConnection Retcode.
			Connection: Connecting procedure, failed to get IP address
20	59	ERROR	for hostname, reconnecting.
			Configuration: Setting the amount of Inflight Messages
20	60	ERROR	failed not initialized. Para1=max_inflight_messages.
			Configuration: Setting Inflight Messages failed, No mem.
20	61	ERROR	Para1=num_msgs, Para2=Mem Avail, Para3=Mem Req
			Configuration: Setting Inflight Messages, ReAlloc Failed.
20	62	ERROR	Para1=num_msgs, Para2=Mem Avail, Para3=Mem Req.
20	63	ERROR	Subscribe: Subscribe request failed, input not OK.
		2	Publish: Could not accept publish request, invalid input
20	64	ERROR	values.
20	04	ERROR	Configuration: Starting the Multitask Thread Failed. Pa-
20	65	ERROR	ra1=_MultiTask::RESUME() RetCode
20	0.5		Connection: Connect Async Call Failed, the Input to the
20	66	ERROR	method is invalid.
20	30	LINON	MultiTask: The MQTTClient failed to suspend the Multitask-
20	67	ERROR	ing Thread. Para1=_MultiTask::SUSPEND() RetCode
20	68	ERROR	MultiTask: Creating the Multitask Thread Failed.
20	66	EDDOD	TCP: The OS TCP User Interface is not available, the connec-
20	69	ERROR	tion cannot be made
.	1000		Publish: QoS 2 Outgoing Publish, PUBREL wait timed out,
21	1000	WARNING	Retrying. Para1=PacketID
			Publish: QoS 2 Outgoing Publish, PUBCOMP wait timed out,
21	1001	WARNING	Retrying. Para1=PacketID
21	1002	WARNING	Publish: QoS 2 Outgoing Publish, PUBREC wait timed out,

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			-
			Retrying. Para1=PacketID
21	1003	WARNING	Publish: QoS 2 Outgoing Publish, PUBLISH wait timed out,
21	1003	WARNING	Retrying. Para1=PacketID
21	1004	VA/A DAUNIC	Publish: QoS 1 Outgoing Publish, PUBACK wait timed out, Retrying. Para1=PacketID.
21	1004	WARNING	Publish: QoS 1 Outgoing Publish, PUBLISH wait timed out,
21	1005	WARNING	Retrying. Para1=PacketID
21	1003	WARNING	Publish: QoS 0 Outgoing Publish, PUBLISH wait timed out,
21	1006	WARNING	Retrying. Para1=PacketID
21	1000	WARNING	Publish: QoS 2 Incoming Publish, could not deliver to appli-
21	1007	WARNING	cation as the OnMessage Callback is not set.
	1007	WARRING	Publish: QoS 2 Incoming Publish, waiting for PUBCOMP
21	1008	WARNING	send timed out, retrying. Para1=PacketID.
	1000	William	Publish: QoS 2 Incoming Publish, waiting for PUBREL mes-
21	1009	WARNING	sage timed out, retry sending PUBREC. Para1=PacketID.
			Publish: QoS 2 Incoming Publish, sending PUBREC response
21	1010	WARNING	timed out, retrying. Para1=PacketID
			Publish: QoS 1 Incoming Publish, could not deliver to appli-
21	1011	WARNING	cation as the OnMessage Callback is not set.
			Publish: QoS 1 Incoming Publish, waiting for PUBACK send
21	1012	WARNING	timed out, retrying. Para1=PacketID.
			Publish: QoS 0 Incoming Publish, could not deliver to appli-
21	1013	WARNING	cation as the OnMessage Callback is not set.
			Unsubscribe: Outgoing Unsubscribe, waiting for UNSUB-
21	1014	WARNING	SCRIBE Packet send timed out, retrying. Para1=PacketID.
			Subscribe: Outgoing Subscribe, waiting for SUBSCRIBE
21	1015	WARNING	Packet send timed out, retrying. Para1=PacketID.
			Subscribe: Incoming SUBACK, too many granted QoS Pairs,
21	1016	WARNING	Truncated. Para1=PacketID.
24	1017	VAVA DAUINIC	Keepalive: MQTT Keepalive, PINGREQ <-> PINGRESP timed
21	1017	WARNING	out, attempting reconnect. Connection: Connect procedure, awaiting CONNACK timed
21	1018	WARNING	out, attempting reconnect.
21	1010	WARRING	Connection: Reconnect procedure, reconnect wait timed
21	1019	WARNING	out, retrying.
	1010		Configuration: Setting the Inflight Messages failed, supplied
			value too low, setting ignored. Para1=Min Value, Para2=Set
21	1020	WARNING	Value
			Configuration: Set Inf Msgs failed, incorrect MQTTClient
21	1021	WARNING	state. Para1=MQTTClientState
			Subscribe: Subscription ignored, the MQTTClient is in the
21	1022	WARNING	incorrect state. Para1=MQTTClientState
			Publish: Publish ignored, the MQTTClient is in the incorrect
21	1023	WARNING	state. Para1=MQTTClientState
			Connection: A call to mqtt_loop_stop() was made whilst the
21	1024	WARNING	connection is still active, the call was ignored.
22	2000	INICO	Publish: QoS 1 Outgoing Publish, Message successfully sent.
22	2000	INFO	Para1=PacketID
22	2001	INFO	Publish: QoS 2 Outgoing Publish, Message successfully sent.



			Para1=PacketID	
			Publish: QoS 0 Outgoing Publish, Message successfully	
22	2002	INFO	send. Para1=PacketID	
			Publish: QoS 2 Incoming Publish Delivered to Application.	
22	2003	INFO	Para1=mid	
			Publish: QoS 1 Incoming Publish Delivered to Application.	
22	2004	INFO	Para1=mid	
			Publish: QoS 0 Incoming Publish Delivered to Application.	
22	2005	INFO	Para1=mid	
			Publish: Incoming PUBCOMP successfully Processed. Pa-	
22	2006	INFO	ra1=mid	
			Publish: Incoming PUBREL successfully Processed. Pa-	
22	2007	INFO	ra1=mid	
	2005		Publish: Incoming PUBREC successfully Processed. Pa-	
22	2008	INFO	ra1=mid	
22	2005		Publish: Incoming PUBACK successfully Processed. Pa-	
22	2009	INFO	ra1=mid	
22	2042	INITO	Unsubscribe: Incoming UNSUBACK successfully Processd.	
22	2010	INFO	Para1=mid	
22	2011	INICO	Subscribe: Incoming SUBACK successfully Processed. Pa-	
22	2011	INFO	ra1=mid	
22	2012	INFO	Connection: Incoming CONNACK Message, Connection Rejected, Not Authorized.	
22	2012	INFU	Connection: Incoming CONNACK Message, Connection	
22	2013	INFO	Rejected, Username/Password Incorrect.	
22	2013	1141 0	Connection: Incoming CONNACK Message, Connection	
22	2014	INFO	Rejected, Server Unavailable.	
22	2014		Connection: Incoming CONNACK Message, Connection	
22	2015	INFO	Rejected, ID Rejected.	
			Connection: Incoming CONNACK Message, Connection	
22	2016	INFO	Rejected, Protocol Version Mismatch.	
		-	Connection: Incoming CONNACK Message, Connection	
22	2017	INFO	Accepted.	
			Configuration: Set Inflight Messages success. Pa-	
22	2018	INFO	ra1=num msgs, Para2=Mem Avail, Para3=Mem Req.	
			Subscribe: Successfully added an Inflight Message for a	
22	2019	INFO	Subscription. Para1=mid, Para2=QoS	
			Publish: Successfully added inflight message for publish.	
22	2020	INFO	Para1=mid	
22	2021	INFO	MultiTask: The MultiTask Thread was stopped.	

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MQTTClient_Interface

Group	Number	Туре	Text
10	0	ERROR	Init: Failed to assign memory for DataMap Pub & Sub Entries
10	1	ERROR	Init: Failed to assign memory for DataMap Entries
10	2	ERROR	Init: Failed to assign Memory for PubSubList Main Structure
10	3	ERROR	Init: Failed to assign Memory for PubSubList Entries
10	4	ERROR	FSM: Creating Connection the the MQTT Broker Failed, Para1 = MQTTClient Retcode
10	5	ERROR	FSM Initialze: Failed to read the specified XML File.
10	6	ERROR	FSM Initialize: Preparing DataMap Failed - Pointer to DataMap Entries is NIL.
10	7	ERROR	FSM Prepare: Setting client ID failed, not enough memory.
10	8	ERROR	FSM Prepare: Error during setting MQTTClient Parameters from XML File, Setting ClientID Failed, Input Value / Client State Not OK.
10	9	ERROR	FSM Prepare: Error during setting MQTTClient Parameters from XML File, Setting Username & Password Failed, Not Enough memory
10	10	ERROR	FSM Prepare: Error during setting MQTTClient Parameters from XML File, Setting Username & Password Failed, Input Value / Client State Not OK
10	11	ERROR	FSM Prepare: Error during setting MQTTClient Parameters from XML File, Setting Max Inflight Messages Failed, Input Value / Client State Not OK
10	12	ERROR	FSM Prepare: Setting will failed. Not enough memory
10	13	ERROR	FSM Prepare: Setting will failed. Invalid input parameters or wrong client state
10	14	ERROR	FSM Prepare: Setting will failed. Invalid Payload size. Para1 = Payload size
10	15	ERROR	FSM Prepare: Setting will failed. Malformed UTF8
10	16	ERROR	FSM Prepare: Setting reconnect failed. Invalid input values or state. Para1 = T Min. Para2 = T Max. Para3 = Exp
10	17	ERROR	FSM Prepare: Setting TLS Data failed. Not enough Memory
10	18	ERROR	FSM Prepare: Setting TLS Data failed. Invalid input parameters or invalid client state
10	19	ERROR	Subscribe: Subscribe failed, Incorrect Input Para. Para1= pTopic. Para2=Qos. Para3=pThis. Para4 = pCallback
10	20	ERROR	Subscribe: Subscribe Failed, incorrect state. Para1 = Interfacestate
10	21	ERROR	Subscribe: Subscribe failed, No Mem in PubSub list. Pa- ra1=NumEntries. Para2=Max Num Entries



10 22 ERROR Subscribe: Subscribe failed, Para1=ReturnCode from client Publish: Publish failed, invalid input para. Para1=pTopic. Para2=QoS. Para3=Payload Len. Para4 =pPayload Publish: Publish failed, No Broker connection or not initialized. Publish: Publish failed, No Broker connection or not initialized. Publish: Publish failed, No Mem in PubSub list. Para1=nterfaceState Publish: Publish failed, No Mem in PubSub list. Para1=NumEntries. Publish: Publish failed, No Mem in PubSub list. Para1=NumEntries. Publish: Publish failed, Para1=ReturnCode from client Unsubscribe: Unsubscribe failed, Could not find topic in PubSub list by name 10 28 ERROR Unsubscribe: Unsubscribe failed, Para1=ReturnCode from client Unsubscribe: Unsubscribe lient request failed, incorrect input parameter. Para1= Appl Mag Id. Para2 = mid Unsubscribe: Unsubscribe client request failed, MQTT Client is not connected to the broker. Para1= Appl Mag Id. Para2 = mid Unsubscribe: Unsubscribe client request failed, No free memory in message buffer. Para1= Appl Mag Id. Para2 = mid Unsubscribe: Unsubscribe inter tequest failed, No free memory in message buffer. Para1= Appl Mag Id. Para2 = mid Unsubscribe: Unsubscribe failed, Subscruiption could not be found in the PubSub List. Para1=Appl Mag Id. Para2 = mid Unsubscribe: Unsubscribe failed, subscruiption could not be found in the PubSub List. Para1=Appl Mag Id. Para2 = mid Unsubscribe: Unsubscribe failed, subscruiption could not be found in the PubSub List. Para1=Appl Mag Id. Para2 = mid Unsubscribe: Unsubscribe failed, incorrect input para Set Clean Session: Resetting the Session failed, PubSub list is not limitalised 33 ERROR Unsubscribe: Unsubscribe failed, incorrect input para Set Clean Session: Resetting the Session failed, PubSub list is not limitalised. 34 ERROR Process XML Config: Processing Client ID Section of configuration XML file failed - Missing Entries. Process XML Config: Processing Connection Section of configuration XML file failed - Missing Entries. Process XML Config: Processing	<u>IVIQ 1 1 OI</u>	ileni_intenat	<u> </u>	J
10 23 ERROR ra2=QoS. Para3=Payload Len. Para4 =pPayload Publish: Publish failed, No Broker connection or not initialized. Para1=InterfaceState Publish: Publish failed, No Mem in PubSub list. Para1=InterfaceState Publish: Publish failed, No Mem in PubSub list. Para1=NumEntries. Para2=Max Num Entries Publish: Publish failed, Para1=ReturnCode from client Unsubscribe: Unsubscribe failed, Could not find topic in PubSub list by name Unsubscribe: Unsubscribe failed, Para1=ReturnCode from client Unsubscribe: Unsubscribe client request failed, incorrect input parameter. Para1 = Appl Msg Id. Para2 = mid Unsubscribe: Unsubscribe client request failed, No free memory in message buffer. Para1 = Appl Msg Id. Para2 = mid Unsubscribe: Unsubscribe client request failed, No free memory in message buffer. Para1 = Appl Msg Id. Para2 = mid Unsubscribe: Unsubscribe failed, Subscruiption could not be found in the PubSub List. Para1-ApplMsgID, Para2-emid Unsubscribe: Unsubscribe failed, incorrect input para Set Clean Session: Resetting the session failed, PubSub list is not Initialised ERROR Unsubscribe: Unsubscribe failed, incorrect input para Set Clean Session: Resetting the Session failed, PubSub list is not Initialised ERROR Process XML: Root element in XML File is invalid. Cannot process Process XML Config: Processing Client ID Section of configuration XML file failed - Missing Entries. Process XML Config: Processing Connection Section of configuration XML file failed - Missing Entries. Process XML Config: Processing TLS section of configuration XML file failed - Missing Entries. Process XML Config: Processing Logging section of configuration XML file failed - Missing Entries. Process XML Config: Processing Logging section of configuration XML file failed - Missing Entries. Process XML Config: Processing TLS section of configuration XML file failed - Missing Entries. Process XML Config: Processing Logging section of configuration XML file failed - Missing Entries. Process XML Config: Processing TLS section for configurat	10	22	ERROR	Subscribe: Subscribe failed, Para1=ReturnCode from client
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10 24 ERROR Para1=InterfaceState Publish: Publish failed, No Mem in PubSub list. Para1=Nmetries. Para2=Max Num Entries 10 26 ERROR Publish: Publish failed, Para1=ReturnCode from client Unsubscribe: Unsubscribe client request failed, incorrect input parameter. Para1 = Appl Msg Id. Para2 = mid Unsubscribe: Unsubscribe client request failed, MQTT client is not connected to the broker. Para1 = Appl Msg Id. Para2 = mid Unsubscribe: Unsubscribe client request failed, No free memory in message buffer. Para1 = Appl Msg Id. Para2 = mid Unsubscribe: Unsubscribe failed, Subscription could not be found in the PubSub List. Para1=ApplMsgID, Para2=mid 10 32 ERROR Unsubscribe: Unsubscribe failed, Subscription could not be found in the PubSub List. Para1=ApplMsgID, Para2=mid 10 34 ERROR Unsubscribe: Unsubscribe failed, Subscription could not be found in the PubSub List. Para1=ApplMsgID, Para2=mid 10 35 ERROR Unsubscribe: Unsubscribe failed, Microrrect input para Set Clean Session: Resetting the Session failed, MQTT Interface is not in the correct state. Para1 = interfaceState 10 36 ERROR Process XML: Root element in XML File is invalid. Cannot process YML Config: Processing Client ID Section of configuration XML file failed - Missing Entries. Process XML Config: Processing Connection Section of configuration XML file failed - Missing Entries. Process XML Config: Processing Logging section of configuration XML file failed - Missing Entries. Process XML Config: Processing Logging section of configuration XML file failed - Missing Entries. Process XML Config: Processing Logging section of configuration XML file failed - Missing Entries. Process	10	23	ERROR	· · ·
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10 42 ERROR XML file failed - Missing Entries 10 43 ERROR Process XML DataMap: Unexpected input in DataMap Section Process XML DataMap: Failed processing a Topic Section in the DataMap section. Process XML DataMap: Failed processing a Topic Endpoint in the DataMap section Process XML DataMap: Failed processing a Topic Endpoint in the DataMap section Process XML DataMap Topic Section: Processing Entry Failed - Section title too long. Process XML DataMap Topic Section: Failed Processing Entry -	10	41	ERROR	
10 43 ERROR Process XML DataMap: Unexpected input in DataMap Section Process XML DataMap: Failed processing a Topic Section in the DataMap section. Process XML DataMap: Failed processing a Topic Endpoint in the DataMap section Process XML DataMap: Failed processing a Topic Endpoint in the DataMap section Process XML DataMap Topic Section: Processing Entry Failed - Section title too long. Process XML DataMap Topic Section: Failed Processing Entry -				
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Process XML DataMap: Failed processing a Topic Section in the DataMap section. Process XML DataMap: Failed processing a Topic Endpoint in the DataMap section Process XML DataMap: Failed processing a Topic Endpoint in the DataMap section Process XML DataMap Topic Section: Processing Entry Failed - Section title too long. Process XML DataMap Topic Section: Failed Processing Entry -	10	43	ERROR	Process XML DataMap: Unexpected input in DataMap Section
10 44 ERROR DataMap section. Process XML DataMap: Failed processing a Topic Endpoint in the DataMap section Process XML DataMap Topic Section: Processing Entry Failed - Section title too long. Process XML DataMap Topic Section: Failed Processing Entry -				
10 45 ERROR DataMap section Process XML DataMap Topic Section: Processing Entry Failed - Section title too long. Process XML DataMap Topic Section: Failed Processing Entry -	10	44	ERROR	DataMap section.
Process XML DataMap Topic Section: Processing Entry Failed - Section title too long. Process XML DataMap Topic Section: Failed Processing Entry -				Process XML DataMap: Failed processing a Topic Endpoint in the
10 46 ERROR Section title too long. Process XML DataMap Topic Section: Failed Processing Entry -	10	45	ERROR	
Process XML DataMap Topic Section: Failed Processing Entry -				Process XML DataMap Topic Section: Processing Entry Failed -
	10	46	ERROR	5
10 47 ERROR Section title is empty				
	10	47	ERROR	Section title is empty

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ERROR

22 SIC	SMATE	<	MQTTClient_Interface
			Process XML DataMap, Max topic depth (Nested Topic Sections)
10	48	ERROR	exceeded. Para1=Topic depth. Para2 = Max topic depth
			Process XML DataMap Topic Endpoint: Element name is too long
10	49	ERROR	or Zero, Para1 = Len
10	50	ERROR	Process XML DataMap Topic Endpoint: Element text is too long
10	51	ERROR	Process XML DataMap Topic Endpoint: Unknown operation type
			Process XML DataMap Topic Endpoint: Interval string too long,
10	52	ERROR	Para1 = Len
10	53	ERROR	Process XML DataMap Topic Endpoint: Unknown datatype
10	54	ERROR	Process XML DataMap Topic Endpoint: QoS string too long, Para1 = Len
10	54	ERROR	= Len
10	55	ERROR	Process XML DataMap Topic Endpoint: Qos invalid. Para1 = Qos
40	5.0	50000	Process XML DataMap Topic Endpoint: Retain string too long.
10	56	ERROR	Para1 = Len
10	57	ERROR	Process XML DataMap Topic Endpoint: Retain value not known. Para1 = Retain value
			Process XML DataMap Topic Endpoint: Topic too long, Para1 =
10	58	ERROR	Len
			Process XML DataMap Topic Endpoint: Topic name too long,
10	59	ERROR	Para1 = Len
			Process XML DataMap Topic Endpoint: Adding Element to
10	60	ERROR	DataMap failed. Para 1 = DataMap RetCode.
10	61	EDDOD.	Process XML DataMap, Failed processing topic endpoint. All
10	61	ERROR	required attributes have not been set DataMap: Adding DataMap entry failed, Invalid input parameters
10	62	ERROR	received.
10	63	ERROR	DataMap: Adding DataMap entry failed, Topic name too long.
		2	DataMap: Adding Element failed - Element name too long. Para 1
10	64	ERROR	= Len
10	65	ERROR	DataMap: Adding Element failed - Element not found.
10	66	ERROR	DataMap: Adding Element Failed - Type Mismatch.
10		Ennon	DataMap: Adding Publish Element Failed - Too Many Entries, see
10	67	ERROR	client DataMapEntries.
			DataMap: Adding Subscribe Element Failed - Too Many Entries,
10	68	ERROR	see client DataMapEntries.
			DataMap: Failed to allocate memory to send the string for the
10	69	ERROR	entry. Para1 = Mid. Para2 = String Object pThis
			DataMap: Publish Request Failed. Para1 = Mid, Para2 = MQTTCli-
10	70	ERROR	ent RetCode, Para3 = pData
10	71	EDDOD	DataMap: Publish Entry timed out whilst waiting for confirma-
10	/1	ERROR	tion. Para1 = Mid, Para2 = Timeout, Para3 = pData DataMap: Request to subscribe failed. Para1 = Mid. Para2 =
10	72	ERROR	Retcode, Para3 = pData
		-	DataMap: Subscribe Entry timed out whilst waiting for confirma-
10	72	EDDOD	tion Done 1 Mid Done 2 Time and Done 2 mDate

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tion. Para1 = Mid, Para2 = Timeout, Para3 = pData



	ilent_interiat		
			DataMap: Request to unsubscribe failed. Para1 = Mid, Para2 =
10	74	ERROR	Retcode, Para3 = pData
			DataMap: Unsubscribe Entry timed out whilst waiting for confir-
10	75	ERROR	mation. Para1 = Mid, Para2 = Timeout, Para3 = pData
			DataMap: Failed to remove unsubscribe entry. Para1=Mid, Pa-
10	76	ERROR	ra2=Index
			DataMap: Removing Element Failed, Invalid index supplied. Para1
10	77	ERROR	= Index
			DataMap: Received data, there is not enough memory available
10	78	ERROR	to process the message. Para1=iMid. Para2 = Message Mid
			DataMap: Subscription confirmes with invalid QoS. Para1=iMid.
10	79	ERROR	Para2=Message Mid.Para3=Granted QoS.Para4=Requested Qos
			Connection: The connection was refused, the Protocol Versions
10	80	ERROR	mismatch. Para1 = CONNACK RetCode
		-	Connection: Connection failed. Client ID Rejected. Para1 =
10	81	ERROR	retcode
	02	2	Connection: Connection Rejected. Server Unavailable. Para1 =
10	82	ERROR	retcode
10	02	LINON	Connection: Connection Rejected. Username and or Password
10	83	ERROR	incorrect. Para1 = retcode
10	65	LINON	Connection: Connection Rejected. Not Authorized. Para1 =
10	84	ERROR	retcode
10	04	ENNON	Connection: Unexpectedly disconnected, KeepAlive Ping timeout
10	0.5	EDDOD	
10	85	ERROR	or TCP error occurred. Para1 = RetCode
4.0	0.0	50000	Connection: Unexpectedly disconnected, Retcode unknown.
10	86	ERROR	Para1 = RetCode
			Publish: Received unexpected Publish Confirm from the MQTTCli-
10	87	ERROR	ent, PubSub List not Inited. Para1 = mid
			Publish: Received unexpected Message (PUBLISH) from the
10	88	ERROR	MQTTClient, PubSub List not Inited. Para1 = mid
10	89	ERROR	Logging: Received a log request with no text. Para1 = Log Level
			Logging: Received a log request with incorrectly specified level.
10	90	ERROR	Para1 = Log Level
	30	2	Config Object: Setting the specified Client ID Failed, the string is
10	91	ERROR	not set or is too long
	31	2	Config Object: Setting the specified Hostname Failed, the string is
10	92	ERROR	not set or is too long
10	32	LINON	Config Object: Setting the Port number failed, the specified port
10	93	ERROR	is outside of the the valid range. Para1 = Specified Port
10	93	LKKOK	Config Object: Setting the KeepAlive Time failed, the specified
10	04	EDDOD.	
10	94	ERROR	value is outside of the the valid range. Para1 = Specified Time Config Object: Setting the Max Inflight Messages failed, the
10	0.5	EDDOD	
10	95	ERROR	specified value is too low. Para1 = Min Value
4.0	200	EDDOD	Config Object: Setting the specified Username Failed, the string is
10	96	ERROR	not set or is too long. Para1 = Max Len
			Config Object: Setting the specified Password Failed, the string is
10	97	ERROR	not set or is too long. Para1 = Max Len
			Config Object: Setting the specified Will Topic Failed, the string is
10	98	ERROR	not set or is too long. Para1 = Max Len

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		`	WQTTClient_interface
			Config Object: Setting the specified Will Payload Failed, the string
10	99	ERROR	is not set or is too long. Para1 = Max Len
			Config Object: Setting the Will QoS failed, the specified value is
10	100	ERROR	outside of the the valid range. Para1 = Specified QoS
			Config Object: Setting the Min Recoonect Time failed, the value is
10	101	ERROR	negative or >= Max Reconnect time.
			Config Object: Setting the Max Recoonect Time failed, the value is
10	102	ERROR	negative or <= Min Reconnect time.
			Config Object: Setting the specified TLS CAFile failed, the string is
10	103	ERROR	not set or is too long. Para1 = Max Len
			Config Object: Setting the specified TLS Cert File failed, the string
10	104	ERROR	is not set or is too long. Para1 = Max Len
		_	Config Object: Setting the specified TLS Key File failed, the string
10	105	ERROR	is not set or is too long. Para1 = Max Len
			Config Object: Setting the specified TLS Password failed, the
10	106	ERROR	string is not set or is too long. Para1 = Max Len
			ClientActive: Disconnect request made although no connection is
11	1000	WARNING	active
			ClientActive: Unexpected retcode received whilst requesting
11	1001	WARNING	MQTT Client Disconnect.
			DataMap: Max String Len Exceeded, String Truncated. Para1=Max
11	1002	WARNING	Payload Len, Para2=Received String Len.
			DataMap: Publish Entry Temp Memory pointer was not NIL, this
11	1003	WARNING	should however be the case, attempting free again. Para1 = Mid
			DataMap: After publishing a String entry, the Temp Memory
			Pointer is NIL, this should not be the case, not freed. Para1 = mid,
11	1004	WARNING	Para2 = String Object pThis
			DataMap: Removing Element failed, DataMap not initialized.
11	1005	WARNING	Para1 = Index
			DataMap: Received callback whilst DataMap is not initialized.
11	1006	WARNING	Para1=mid. Para2 = Message Mid
			DataMap Received Data but did not find corresponding entry.
11	1007	WARNING	Para1 = iMid. Para2 = Message Mid
			DataMap: Subscription confirmed, however the Entry was in the
			wrong state. Para1 = mid, Para2 = Message mid, Para3 = Entry
11	1008	WARNING	internal State
			DataMap: Received data too long, truncated. (UDINT). Para1 =
11	1009	WARNING	iMid. Para2 = Message Mid. Para3 = Received Len
			DataMap: Received data too long, truncated. (DINT). Para1 =
11	1010	WARNING	iMid. Para2 = Message Mid. Para3 = Received Len
			DataMap: Received data too long, truncated. (REAL). Para1 =
11	1011	WARNING	iMid. Para2 = Message Mid. Para3 = Received Len
			DataMap: Received empty message. Para1 = iMid. Para2 = Mes-
11	1012	WARNING	sage Mid
			Connection: Received an unexpected Connect Callback. Para1 =
11	1013	WARNING	Retcode
			Connection: Received an unexpected Disconnected Callback.
11	1014	WARNING	Para1 = Retcode
			Publish: Received unexpected Publish Confirm from the MQTTCli-
11	1015	WARNING	ent, item not in the PubSub List. Para1 = mid



Publish: Received a Publish Confirm from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid Message: Received a Message from the MQTTClient, the Pub-SubList is brompty. Para1 = mid Message: Received a Message from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid Message: Received a Message from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid MARNING MQTTClient. Para1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. Para1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. The entry is a Publish Entry. Para1 = mid WARNING MQTTClient, the entry is a Publish Entry. Para1 = mid WARNING Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. The entry is a Publish Entry. Para1 = mid WARNING MQTTClient, the entry is a Publish Entry. Para1 = mid Unsubscribe: Received an Unsubscribe Confirm from the MQTTClient, item not in the Pubsub List. Para1 = mid Unsubscribe: Received an Unsubscribe Confirm from the MQTTClient, the Pubsub List. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, the matching entry in the Pubsub List is not an Unsubscribe request. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient. Para1 = Appl Mgg Id. Para2 = mid DataMap: Requested Publish for an Entry. Para1 = Mid, Para2 = pData DataMap: Requested Unsubscribe for DataMap E	IVIQTIC	ient_interiac	UE .	
could not be delivered to the application, Callback details incorrect. Para1 = mid Message: Received a Message from the MQTTClient, the Pubsublist is empty. Para1 = mid Message: Received and Message from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid Message: Received an unexpected Subscribe Confirm from the MQTTClient. Para1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient, the entry is a Publish Entry. Para1 = mid WARNING MQTTClient. Para1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient, the entry is a Publish Entry. Para1 = mid WARNING WARNING MQTTClient, the entry is a Publish Entry. Para1 = mid WARNING Subscribe: Received as Subscribe confirmation from the MQTTClient than to could not be delivered to the application, Callback details incorrect. Para1 = mid WARNING WARNING Unsubscribe: Received an Unsubscribe Confirm from the MQTTClient, the PubSub List. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, the PubSub List para1 = mid Unsubscribe: Received an unexpected Unsubscribe Confirm from the MQTTClient, the matching entry in the PubSub List is not an Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, that could not be delivered to the application, Callback details incorrect. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid Unsubscribe: Secreted an Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid DataMap: Requested Publish for an Entry. Para1 = Mid, Para2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para1 = Mid, Para2 = DataMap: Publish complete. Para1 =				Publish: Received a Publish Confirm from the MQTTClient that
11 1016 WARNING PROTECTION OF THE PAPER STATE OF THE PUBLISH STATE OF TH				
11 1017 WARNING SubList is empty. Para 1 = mid Message: Received a Message from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para 1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. Para 1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. Para 1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. The entry is a Publish Entry. Para 1 = mid Subscribe: Received a Subscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para 1 = mid Subscribe: Received unexpected Subscribe Confirm from the MQTTClient, Item not in the PubSub List. Para 1 = mid Unsubscribe: Received unexpected Unsubscribe confirmation from the MQTTClient, the PubSub List is empty. Para 1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, the PubSub List is empty. Para 1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, the PubSub List is empty. Para 1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, the matching entry in the PubSub List is not an Unsubscribe request. Para 1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para 1 = mid Unsubscribe: Unsubscribe: Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para 1 = mid Unsubscribe: Unsubscribe: Unsubscribe Request Successfully passed to MQTT Client. Para 1 = Appl Mg Id. Para 2 = mid Unsubscribe: Unsubscribe: Unsubscribe Request Successfully passed to MQTT Client. Para 1 = Appl Mg Id. Para 2 = mid DataMap: Requested Publish for an Entry. Para 1 = Mid, Para 2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para 1 = Mid, Para 2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para 1 = Mid, Para 2 = pData DataMap: Subscription Confirmed, Grant	11	1016	WARNING	rect. Para1 = mid
11 1017 WARNING SubList is empty. Para 1 = mid Message: Received a Message from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para 1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. Para 1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. Para 1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. The entry is a Publish Entry. Para 1 = mid Subscribe: Received a Subscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para 1 = mid Subscribe: Received unexpected Subscribe Confirm from the MQTTClient, Item not in the PubSub List. Para 1 = mid Unsubscribe: Received unexpected Unsubscribe confirmation from the MQTTClient, the PubSub List is empty. Para 1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, the PubSub List is empty. Para 1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, the PubSub List is empty. Para 1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, the matching entry in the PubSub List is not an Unsubscribe request. Para 1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para 1 = mid Unsubscribe: Unsubscribe: Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para 1 = mid Unsubscribe: Unsubscribe: Unsubscribe Request Successfully passed to MQTT Client. Para 1 = Appl Mg Id. Para 2 = mid Unsubscribe: Unsubscribe: Unsubscribe Request Successfully passed to MQTT Client. Para 1 = Appl Mg Id. Para 2 = mid DataMap: Requested Publish for an Entry. Para 1 = Mid, Para 2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para 1 = Mid, Para 2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para 1 = Mid, Para 2 = pData DataMap: Subscription Confirmed, Grant				Message: Received a Message from the MQTTClient, the Pub-
Message: Received a Message from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid 11 1019 WARNING MQTTClient. Para1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. Para1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient, the entry is a Publish Entry. Para1 = mid WARNING WARNING MQTTClient, the entry is a Publish Entry. Para1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid WARNING Subscribe: Received unexpected Subscribe Confirm from the MQTTClient, titem not in the PubSub List. Para1 = mid WARNING MQTTClient, the must in the PubSub List. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, the PubSubList is empty. Para1 = mid Unsubscribe: Received an unexpected Unsubscribe Confirm from the MQTTClient, the matching entry in the PubSub List is not an Unsubscribe request. Para1 = mid Unsubscribe: Received an unsubscribe confirmation from the MQTTClient, the matching entry in the PubSub List is not an Unsubscribe request. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient. Interface has been activated Subscribe: Element successfully added to subscribe list. Para1= Mid Unsubscribe: Unsubscribe Request Successfully passed to MQTT Client. Para1 = Appl Msg Id. Para2 = mid Unsubscribe: Unsubscribe for DataMap Entry. Para1 = Mid, Para2 = pData DataMap: Requested Publish for an Entry. Para1 = Mid, Para2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para1 = Mid, Para2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para1 = Mid, Para2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para1 = Mid, Para2 = pData DataMap: Requested Unsu	11	1017	WARNING	
not be delivered to the application, Callback details incorrect. Para I = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. Para I = mid WARNING MQTTClient. Para I = mid WARNING MQTTClient. Para I = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient, the entry is a Publish Entry. Para I = mid WARNING MQTTClient, the entry is a Publish Entry. Para I = mid Subscribe: Received a Subscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para I = mid Unsubscribe: Received unexpected Subscribe Confirm from the MQTTClient, them not in the PubSub List. Para I = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, them of unsubscribe confirmation from the MQTTClient, them challenge entry in the PubSub List is not an Unsubscribe: Received an unexpected Unsubscribe Confirm from the MQTTClient, the matching entry in the PubSub List is not an Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, the matching entry in the PubSub List is not an Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, that could not be delivered to the application, Callback details incorrect. Para I = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para I = mid Unsubscribe: Unsubscribe: Unsubscribe Requested Unsubscribe Inst. Para I = Mid Unsubscribe: Unsubscribe Request Successfully passed to MQTT Client. Para I = Appl Msg Id. Para 2 = mid Unsubscribe: Unsubscribe Requested Unsubscribe Inst. Para I = Mid, Para 2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para I = Mid, Para 2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para I = Mid, Para 2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para I = Mid, Para 2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para I = Mid, Para 2 = pData DataMap: Requested Unsubscribe f				
11 1018 WARNING Para1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. Para1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient. Para1 = mid Subscribe: Received an unexpected Subscribe Confirm from the MQTTClient, the entry is a Publish Entry. Para1 = mid Subscribe: Received an Unexpected Subscribe Confirm from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid Subscribe: Received unexpected Subscribe Confirm from the MQTTClient, the rubsub List. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, the PubSub List Is empty. Para1 = mid Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient, the PubSub List Is empty. Para1 = mid Unsubscribe: Received an Unsubscribe Confirm from the MQTTClient, the matching entry in the PubSub List is not an Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid 10 Unsubscribe: Received an Unsubscribe confirmation from the MQTTClient that could not be delivered to the application, Callback details incorrect. Para1 = mid 11 1025 WARNING Unsubscribe: Received an Unsubscribe list. Para1= mid 12 2000 INFO FSM: MQTTClient_Interface has been activated Subscribe: Element successfully added to subscribe list. Para1= mid 12 2001 INFO Unsubscribe: Unsubscribe Request Successfully passed to MQTT Client. Para1 = Appl Msg Id. Para2 = mid DataMap: Requested Publish for an Entry. Para1 = Mid, Para2 = pData DataMap: Requested Subscription for an Entry. Para1 = Mid, Para2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para1 = Mid, Para2 = pData DataMap: Requested Unsubscribe for DataMap Entry. Para1 = Mid, Para2 = pData DataMap: Requested Unsubscribe for Entry Received. Para1 = iMid. Para2 = Message Mid. Para3 = Granted QoS Jamas Para Para Para Para Para Para Para Pa				9
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12 2011 INFO Para1 = mid	12	2010	1141 0	
	12	2011	INFO	-
12 2012 INFO Unsubscribe: Received Unsubscribe confirmation from the	12	2011		
	12	2012	INFO	Unsubscribe: Received Unsubscribe confirmation from the

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			MQTTClient. Para1 = mid
13	3000	DEBUG	ClientActive: Disconnect request Initiated
			Unsubscribe: Unsubscribe requested, however no callback to the
13	3001	DEBUG	Application is set. Para1=udApplMsgID, Para2=mid
			Unsubscribe: Unsubscribe requested for a topic where atleast one other party in the application is still subscribed, the Unsubscribe request will not be sent. Para1 = Requested Unsub ApplID,
13	3002	DEBUG	Para2 = ApplID of first subscriber that is still active.