MqttClient

- m_clientController: MqttClientController*
- s_defaultMqttPort: unsigned short int {readOnly}

+ getShallConnect() : bool
+ loop() : void
+ MqttClient(char*, unsigned short int, Client*)
+ ~MqttClient()
- MqttClient(MqttClient&)
- operator =(MqttClient&) : MqttClient&
+ publish(char*, char*) : int
+ setShallConnect(bool) : void
+ subscribe(MqttMsgHandler*) : int
+ unsubscribe(char*) : int

MqttMsgHandler

- m_next: MqttMsgHandler*
- m_rxMsg: char*
- m_rxTopic: char*
- m_topic: char*
- s_maxRxMsgSize: unsigned int {readOnly}
- s_maxRxTopicSize: unsigned int {readOnly}

+ addHandler(MqttMsgHandler*) : void
+ getRxMsg() : char* {query}
+ getRxTopic() : char* {query}
+ getTopic() : char* {query}
+ handleMessage(char*, unsigned char*, unsigned int, DbgTrace_Port*) : void
+ isMyTopic() : bool {query}
+ MqttMsgHandler(char*)
- ~MqttMsgHandler()
- MqttMsgHandler()
- MqttMsgHandler(MqttMsgHandler&)
+ next() : MqttMsgHandler*
- operator =(MqttMsgHandler&) : MqttMsgHandler&
+ processMessage() : bool
+ subscribe() : void

-m_next

-m_handlerChain

-m_clientController

-s_instance

DbgCli_Cmd_MqttClientCon
DbgCli_Command

- m_mqttClient: MqttClientController*

+ DbgCli_Cmd_MqttClientCon(DbgCli_Topic*, MqttClientController*)
+ execute(unsigned int, char**, unsigned int) : void
+ printUsage() : void

DbgCli_Cmd_MqttClientDis
DbgCli_Command

- m_mqttClient: MqttClientController*

+ DbgCli_Cmd_MqttClientDis(DbgCli_Topic*, MqttClientController*)
+ execute(unsigned int, char**, unsigned int) : void
+ printUsage() : void

DbgCli_Cmd_MqttClientPub
DbgCli_Command

- m_mqttClient: MqttClientController*

+ DbgCli_Cmd_MqttClientPub(DbgCli_Topic*, MqttClientController*)
+ execute(unsigned int, char**, unsigned int) : void
+ printUsage() : void

DbgCli_Cmd_MqttClientSub
DbgCli_Command

- m_mqttClient: MqttClientController*

+ DbgCli_Cmd_MqttClientSub(DbgCli_Topic*, MqttClientController*)
+ execute(unsigned int, char**, unsigned int) : void
+ printUsage() : void

DbgCli_Cmd_MqttClientUnsub
DbgCli_Command

- m_mqttClient: MqttClientController*

+ DbgCli_Cmd_MqttClientUnsub(DbgCli_Topic*, MqttClientController*)
+ execute(unsigned int, char**, unsigned int) : void
+ printUsage() : void

-m_mqttClient

DefaultMqttMsgHandler

+ DefaultMqttMsgHandler(char*)
- DefaultMqttMsgHandler()
- DefaultMqttMsgHandler(DefaultMqttMsgHandler&)
- operator =(DefaultMqttMsgHandler&) : DefaultMqttMsgHandler&
+ processMessage() : bool

MqttClientController

- m_connMon: ConnectionMonitor*
- m_handlerChain: MqttMsgHandler*
- m_shallConnect: bool
- m_trPortMqttctrl: DbgTrace_Port*
- s_instance: MqttClientController*
- s_mqttClientWrapper: IMqttClientWrapper*

- addMsgHandler(MqttMsgHandler*) : void
+ assignMqttClientWrapper(IMqttClientWrapper*, IMqttClientCallbackAdapter*) : void
+ connect() : void
+ connMon() : ConnectionMonitor*
+ getShallConnect() : bool
+ Instance() : MqttClientController*
+ loop() : void
+ MqttClientController()
+ ~MqttClientController()
- MqttClientController(MqttClientController&)
+ mqttClientWrapper() : IMqttClientWrapper*
+ msgHandlerChain() : MqttMsgHandler*
- operator =(MqttClientController&) : MqttClientController&
+ publish(char*, char*) : int
+ setShallConnect(bool) : void
+ subscribe(char*) : int
+ subscribe(MqttMsgHandler*) : int
+ trPort() : DbgTrace_Port*
+ unsubscribe(char*) : int

MyConnMonAdapter

- m_mqttClientCtrl: MqttClientController*

+ mqttConnectedRaw() : bool
+ MyConnMonAdapter(MqttClientController*)
+ notifyLanConnected(bool) : void
+ notifyMqttConnected(bool) : void

-m_mqttClientCtrl

StableCheckPollTimerAdapter

TimerAdapter

StableCheckPollTimerAdapter

- m_monitor: ConnectionMonitor*

+ StableCheckPollTimerAdapter(ConnectionMonitor*)
+ timeExpired() : void

StatusPollTimerAdapter

TimerAdapter

StatusPollTimerAdapter

- m_monitor: ConnectionMonitor*

+ StatusPollTimerAdapter(ConnectionMonitor*)
+ timeExpired() : void

ConnMonAdapter

ConnMonAdapter

- m_trPort: DbgTrace_Port*

+ ConnMonAdapter()
+ ~ConnMonAdapter()
+ ConnMonAdapter(ConnMonAdapter&)
+ lanConnectedRaw() : bool
+ mqttConnectedRaw() : bool
+ notifyLanConnected(bool) : void
+ notifyMqttConnected(bool) : void
+ operator =(ConnMonAdapter&) : ConnMonAdapter&
+ trPort() : DbgTrace_Port*

IMqttClientWrapper::eIMqttClientState

«enumeration»
IMqttClientWrapper::eIMqttClientState

eIMqttCS_Connected = 0
eIMqttCS_ConnectBadProtocol = 1
eIMqttCS_ConnectBadClientId = 2
eIMqttCS_ConnectUnavailable = 3
eIMqttCS_ConnectBadCredentials = 4
eIMqttCS_ConnectUnauthorized = 5
eIMqttCS_ConnectionTimeout = 12
eIMqttCS_ConnectionLost = 13
eIMqttCS_ConnectFailed = 14
eIMqttCS_Disconnected = 15

ConnMonState

ConnMonState

ConnMonState()
+ ~ConnMonState()
+ entry(ConnectionMonitor*) : void
+ evaluateState(ConnectionMonitor*) : void
+ evaluateState(ConnectionMonitor*, bool) : void
+ timeExpired(ConnectionMonitor*) : void
+ toString() : char*

ConnectionMonitor

ConnectionMonitor

- m_adapter: ConnMonAdapter*
- m_prevState: ConnMonState*
- m_stableConnCheckTimer: Timer*
- m_state: ConnMonState*
- m_statusPollTimer: Timer*

+ adapter() : ConnMonAdapter*
+ changeState(ConnMonState*) : void
+ ConnectionMonitor(ConnMonAdapter*)
+ ~ConnectionMonitor()
- ConnectionMonitor(ConnectionMonitor&)
+ evaluateState() : void
+ isLanConnected() : bool
+ isLanDeviceConnected() : bool
+ isMqttConnected() : bool
+ isMqttLibConnected() : bool
- operator =(ConnectionMonitor&) : ConnectionMonitor&
+ prevState() : ConnMonState*
+ setMqttState(bool) : void
+ startStableLanConnCheckTimer() : void
+ state() : ConnMonState*

ConnMonState_MqttConnected

ConnMonState_MqttConnected

- s_instance: ConnMonState*

+ ConnMonState_MqttConnected()
+ ~ConnMonState_MqttConnected()
+ entry(ConnectionMonitor*) : void
+ evaluateState(ConnectionMonitor*) : void
+ evaluateState(ConnectionMonitor*, bool) : void
+ Instance() : ConnMonState*
+ toString() : char*

ConnMonState_StableLanConnection

ConnMonState_StableLanConnection

- s_instance: ConnMonState*

+ ConnMonState_StableLanConnection()
+ ~ConnMonState_StableLanConnection()
+ entry(ConnectionMonitor*) : void
+ evaluateState(ConnectionMonitor*) : void
+ evaluateState(ConnectionMonitor*, bool) : void
+ Instance() : ConnMonState*
+ toString() : char*

ConnMonState_LanConnected

ConnMonState_LanConnected

- s_instance: ConnMonState*

- ConnMonState_LanConnected()
+ ~ConnMonState_LanConnected()
+ entry(ConnectionMonitor*) : void
+ evaluateState(ConnectionMonitor*) : void
+ Instance() : ConnMonState*
+ timeExpired(ConnectionMonitor*) : void
+ toString() : char*

ConnMonState_Unconnected

ConnMonState_Unconnected

- s_instance: ConnMonState*

- ConnMonState_Unconnected()
+ ~ConnMonState_Unconnected()
+ entry(ConnectionMonitor*) : void
+ evaluateState(ConnectionMonitor*) : void
+ Instance() : ConnMonState*
+ toString() : char*

-s_instance
-m_state
-m_prevState
-m_monitor
-m_adapter
-m_connMon

IMqttClientWrapper

+ *callbackAdapter() : IMqttClientCallbackAdapter**
+ *client() : Client&*
+ *connect(char*) : bool*
+ *connected() : bool*
+ *disconnect() : void*
\# IMqttClientWrapper()
+ *~IMqttClientWrapper()*
- IMqttClientWrapper(IMqttClientWrapper&)
- operator =(IMqttClientWrapper&) : IMqttClientWrapper&
+ *processMessages() : bool*
+ *publish(char*, char*) : unsigned char*
+ *setCallbackAdapter(IMqttClientCallbackAdapter*) : void*
+ *state() : eIMqttClientState*
+ *stateStr() : char**
+ *subscribe(char*) : unsigned char*
+ *unsubscribe(char*) : unsigned char*

-s_mqttClientWrapper

IMqttClientCallbackAdapter

\# IMqttClientCallbackAdapter()
+ *~IMqttClientCallbackAdapter()*
+ *messageReceived(char*, unsigned char*, unsigned int) : void*

-m_callbackAdapter

PubSubClientWrapper

- m_callbackAdapter: IMqttClientCallbackAdapter*
- m_client: Client&
- m_pubSubClient: PubSubClient*
+ s_pubSubClientWrapper: PubSubClientWrapper*

+ callbackAdapter() : IMqttClientCallbackAdapter*
+ client() : Client&
+ connect(char*) : bool
+ connected() : bool
+ disconnect() : void
- operator =(PubSubClientWrapper&) : PubSubClientWrapper&
+ processMessages() : bool
+ publish(char*, char*) : unsigned char
+ PubSubClientWrapper(Client&, char*, unsigned short int)
+ *~PubSubClientWrapper()*
- PubSubClientWrapper()
- PubSubClientWrapper(PubSubClientWrapper&)
+ setCallbackAdapter(IMqttClientCallbackAdapter*) : void
+ state() : eIMqttClientState
+ subscribe(char*) : unsigned char
+ unsubscribe(char*) : unsigned char

+s_pubSubClientWrapper

PubSubClientCallbackAdapter

- m_trPortMqttRx: DbgTrace_Port*

+ messageReceived(char*, unsigned char*, unsigned int) : void
- operator =(PubSubClientCallbackAdapter&) : PubSubClientCallbackAdapter&
+ PubSubClientCallbackAdapter()
+ *~PubSubClientCallbackAdapter()*
- PubSubClientCallbackAdapter(PubSubClientCallbackAdapter&)