

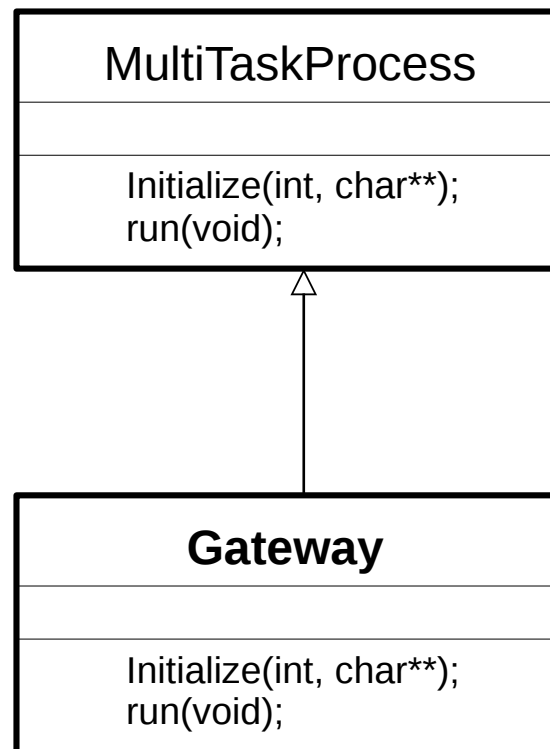
MQTT-SN Gateway Overview

The Gateway is constructed and invoked from within **mainGateway.cpp**

```
24
25 /*
26  * Gateway Application
27  */
28 Gateway gateway;
29 PacketHandleTask task1(&gateway);
30 ClientRecvTask task2(&gateway);
31 ClientSendTask task3(&gateway);
32 BrokerRecvTask task4(&gateway);
33 BrokerSendTask task5(&gateway);
34
35 int main(int argc, char** argv)
36 {
37     gateway.initialize(argc, argv);
38     gateway.run();
39     return 0;
40 }
41
```

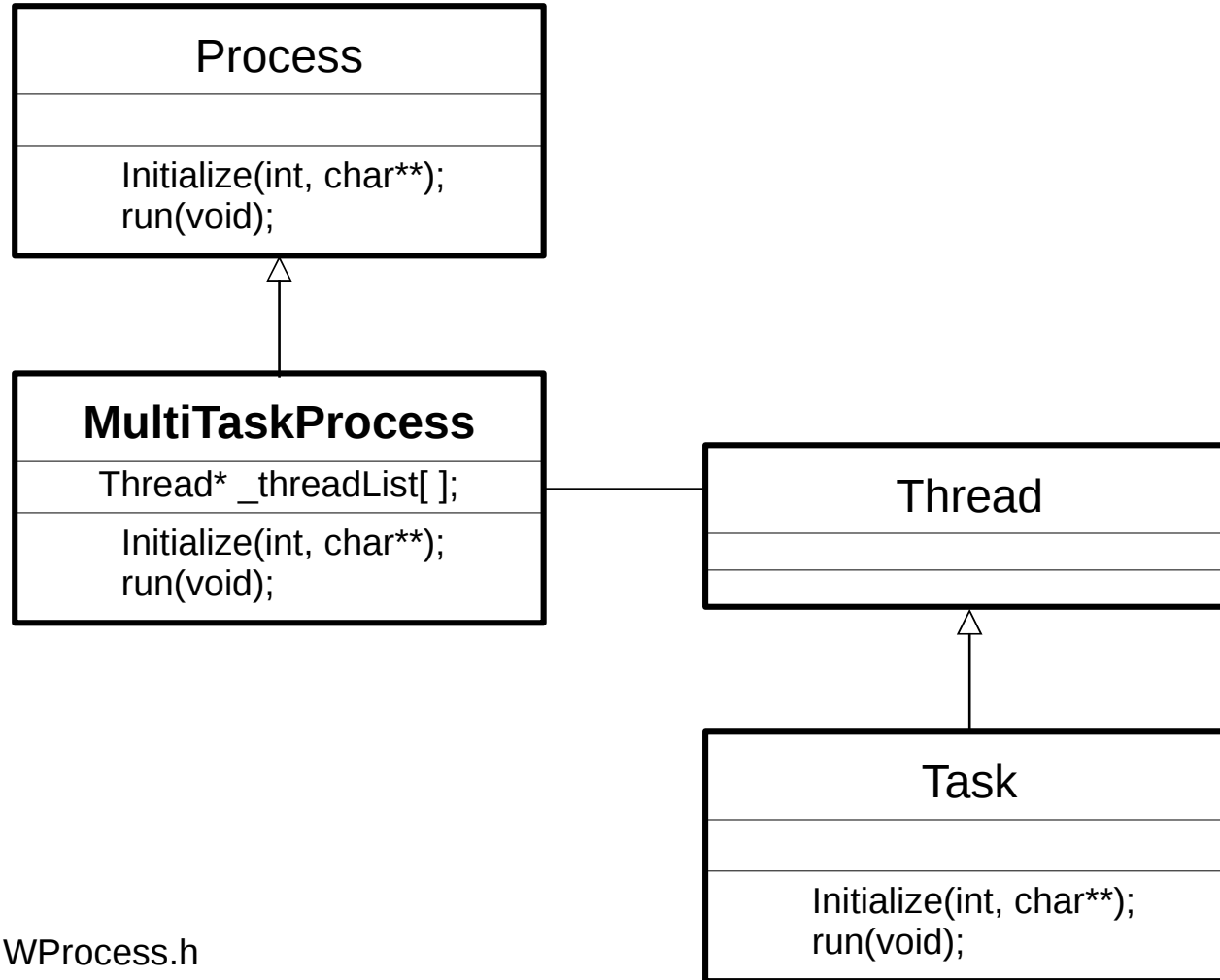
1. Model

1-1. Gateway Class



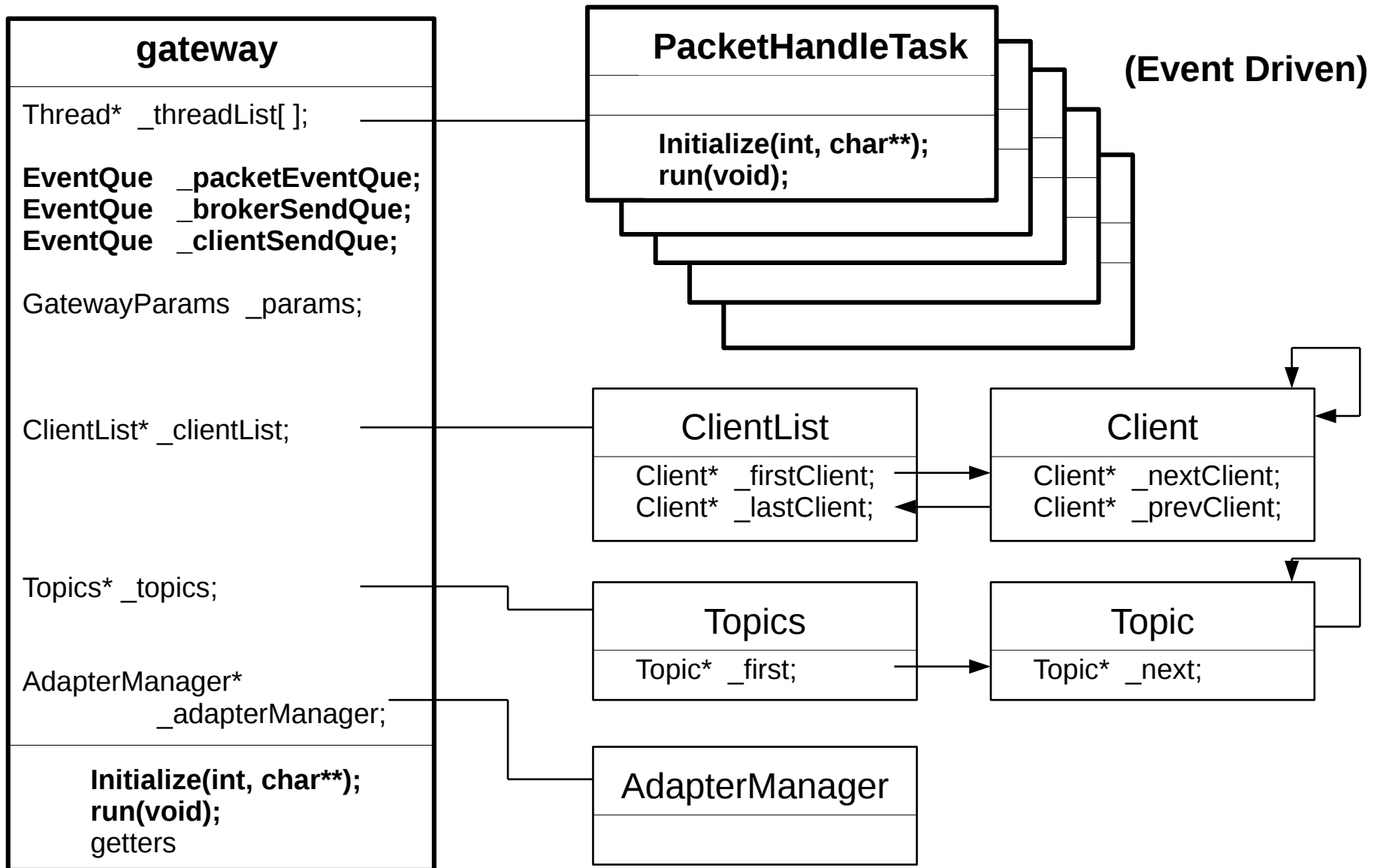
See MQTTSNGateway.h

1-2. MultiTaskProcess Class

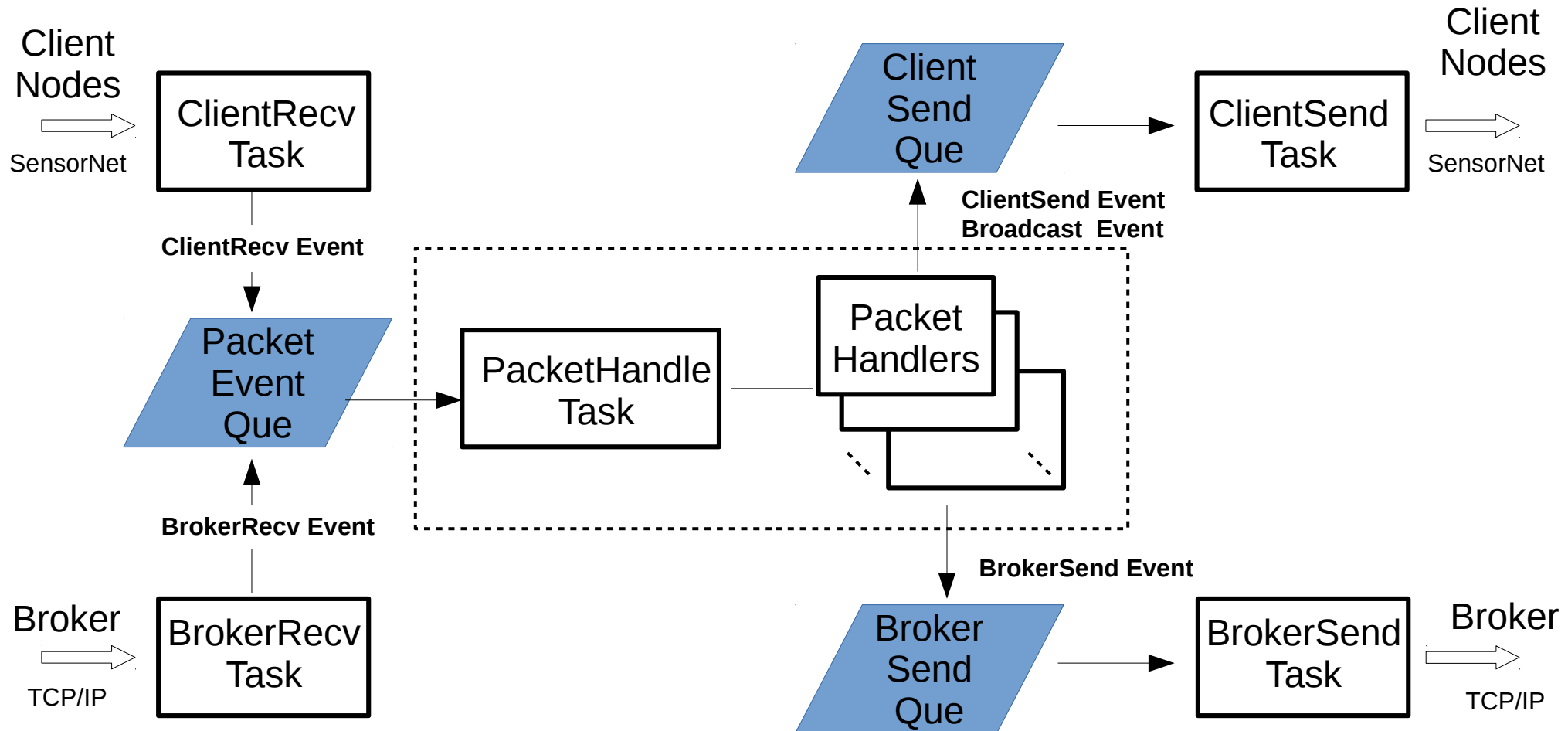


See MQTTSNGWProcess.h

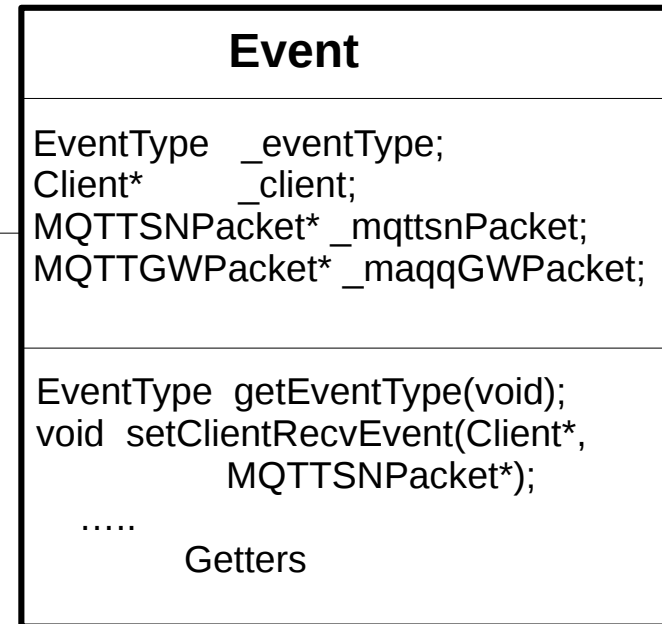
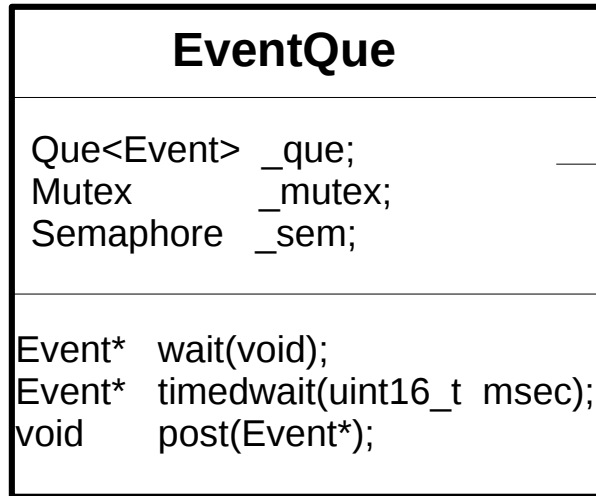
1-3. Instances created by 'mainGateway.cpp'



1-4. Event Flow and Task Linkage

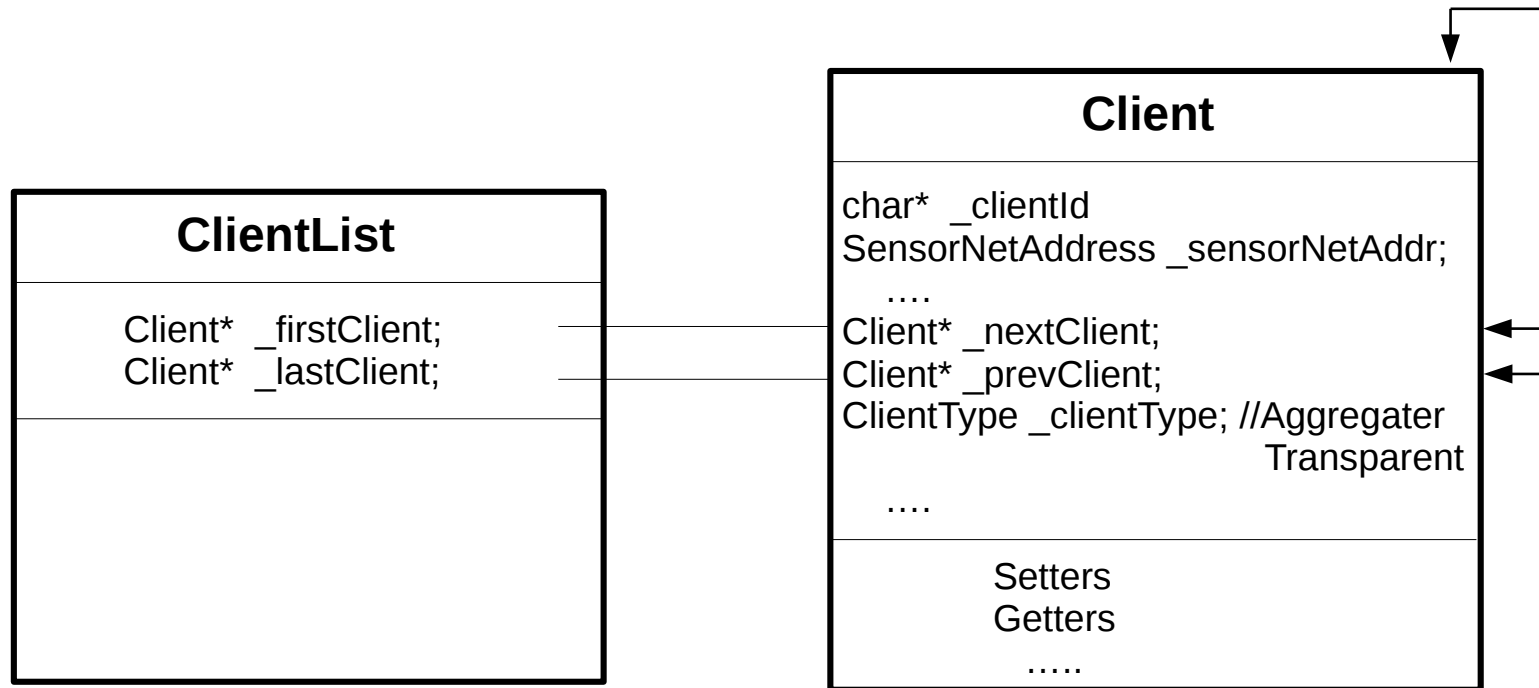


1-5. Event and Event Que



See MQTTSNGateway.h
MQTTSNGWProcess.h

1-6. Client and ClientList Class



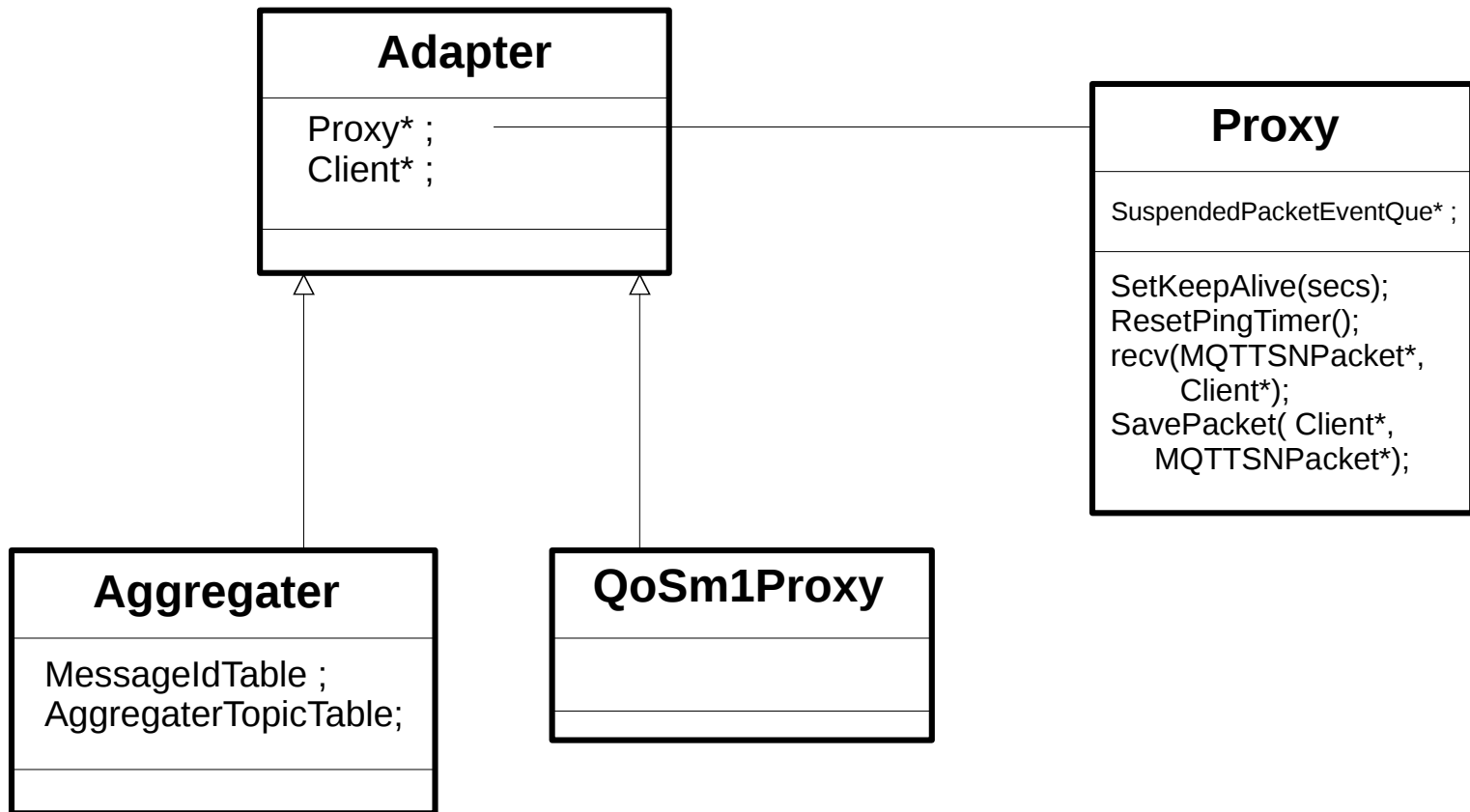
Client is a most complicated Class.
It should be refactered.

See MQTTSNGWClientList.h
MQTTSNGWClient.h

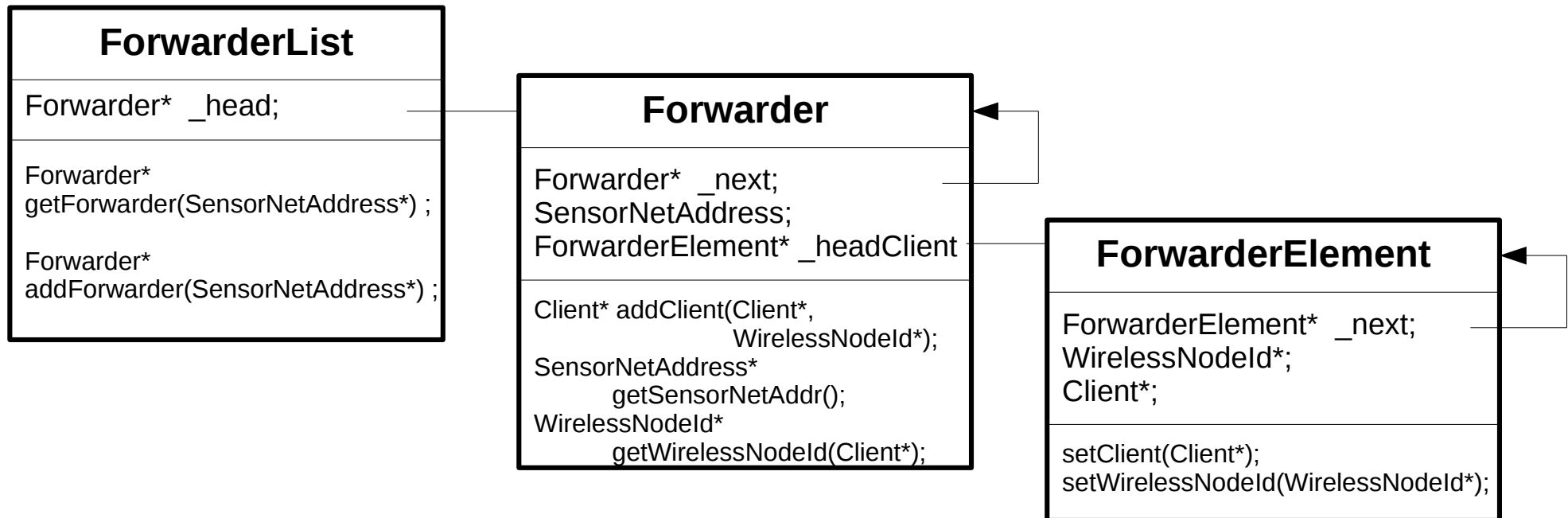
1-7.AdapterManager

AdapterManager
ForwaderList QoS1Proxy Aggregater Gateway*
bool isAggregatedClient(Client*); bool isAggregaterActive(); Client* getClient(Client*); Client* convertClient(uint16_t msgId, uint16_t* clientMsgId); int unicastToClient(Client*, MQTTSNPacket*, ClientSendTask*);

1-8. Aggregater & QoS1Proxy



1-9. Forwarder



2. Tasks

