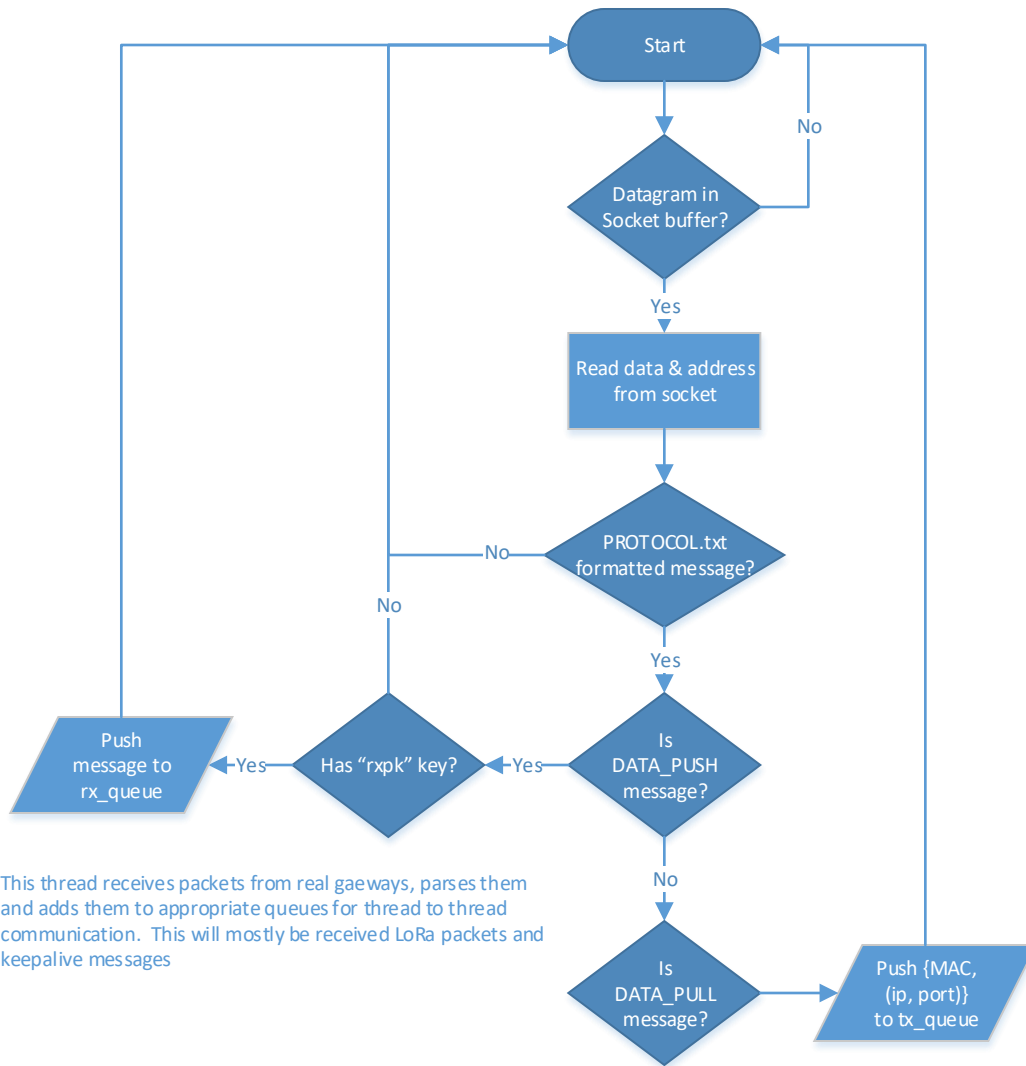
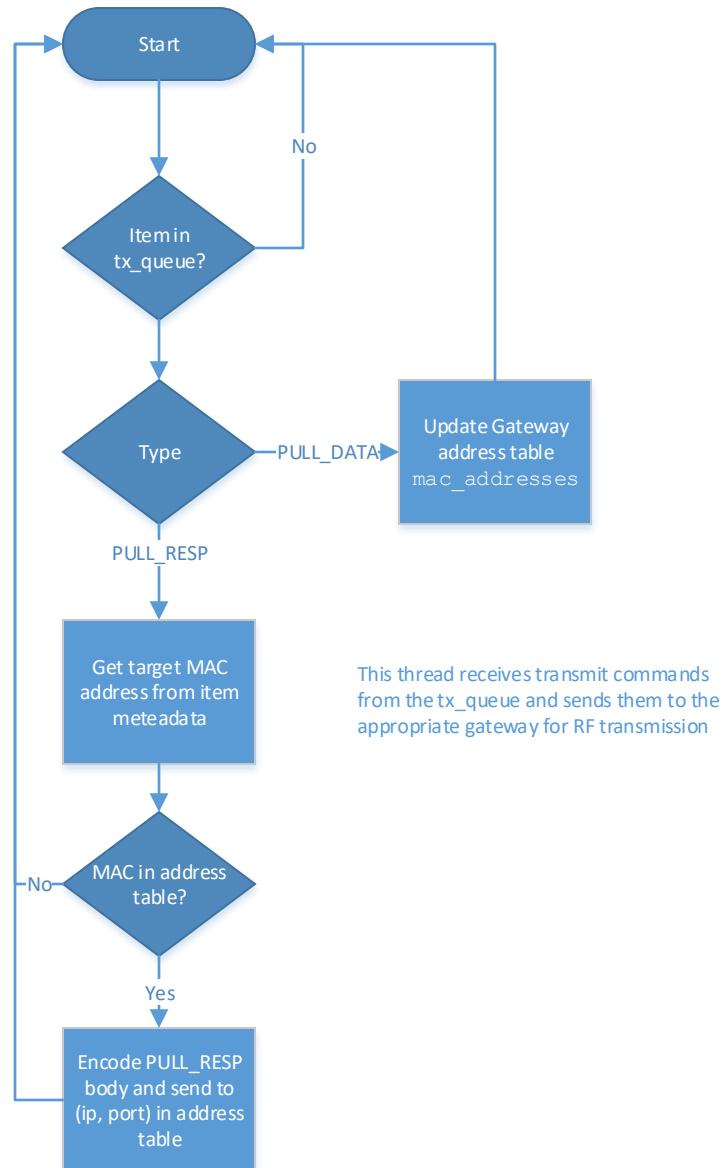


Server.py:listen()

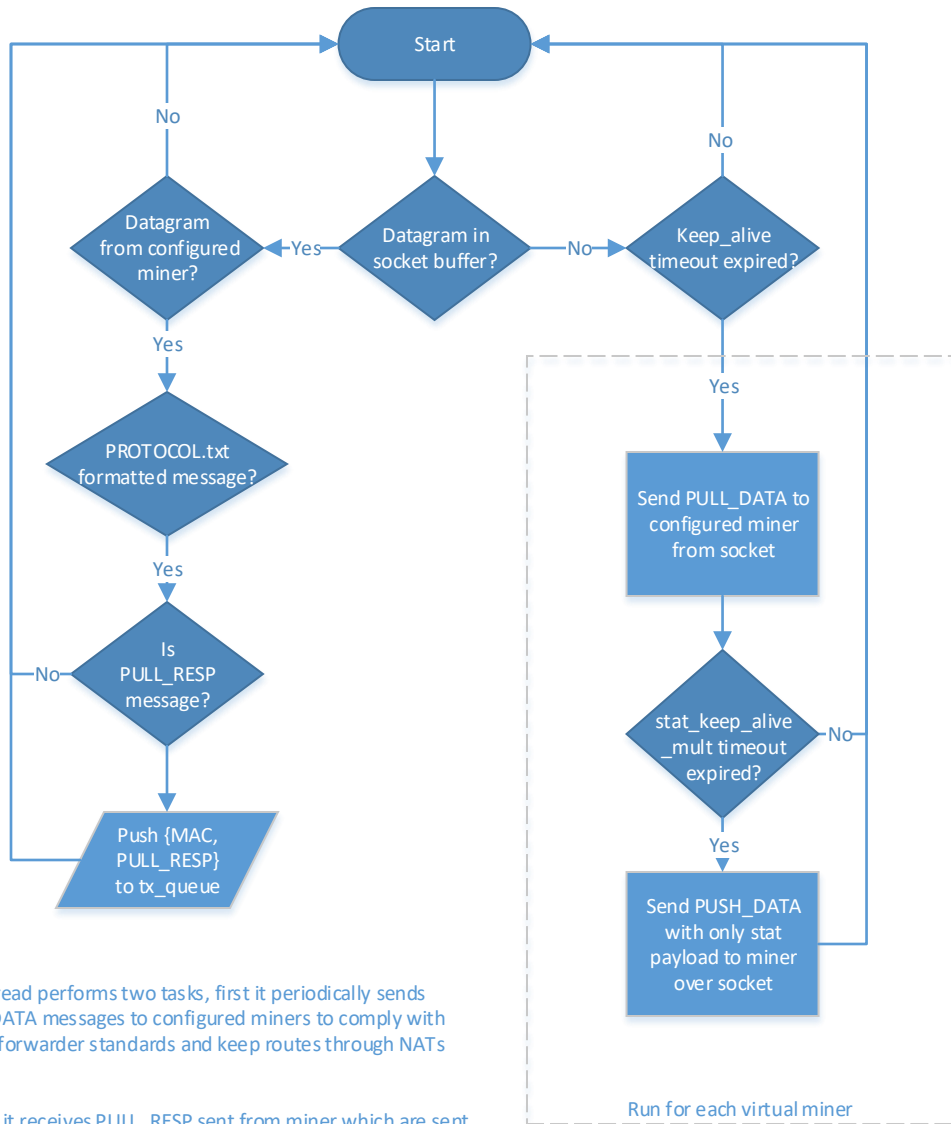


This thread receives packets from real gateways, parses them and adds them to appropriate queues for thread to thread communication. This will mostly be received LoRa packets and keepalive messages

Server.py:transmit()



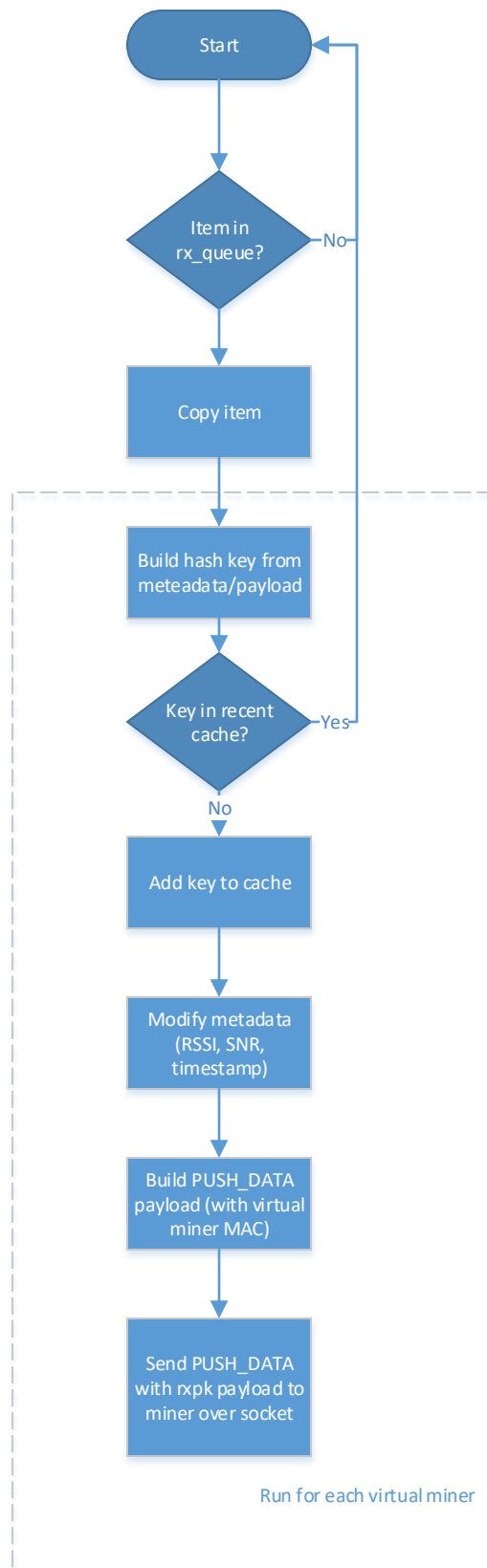
Virtual_gateway.py:handle_pull()



This thread performs two tasks, first it periodically sends **PULL_DATA** messages to configured miners to comply with packet forwarder standards and keep routes through NATs open.

Second it receives **PULL_RESP** sent from miner which are sent asynchronously when a LoRa transmit is needed. These are pushed on the `tx_queue`.

Virtual_gateway.py:handle_push()



This thread is responsible for taking received LoRa packets from any gateway and sending copies to each virtual miner. These virtual miners perform de-duplication, metadata modification as required to pass PoC thresholds and sends in a UDP datagram to miners.