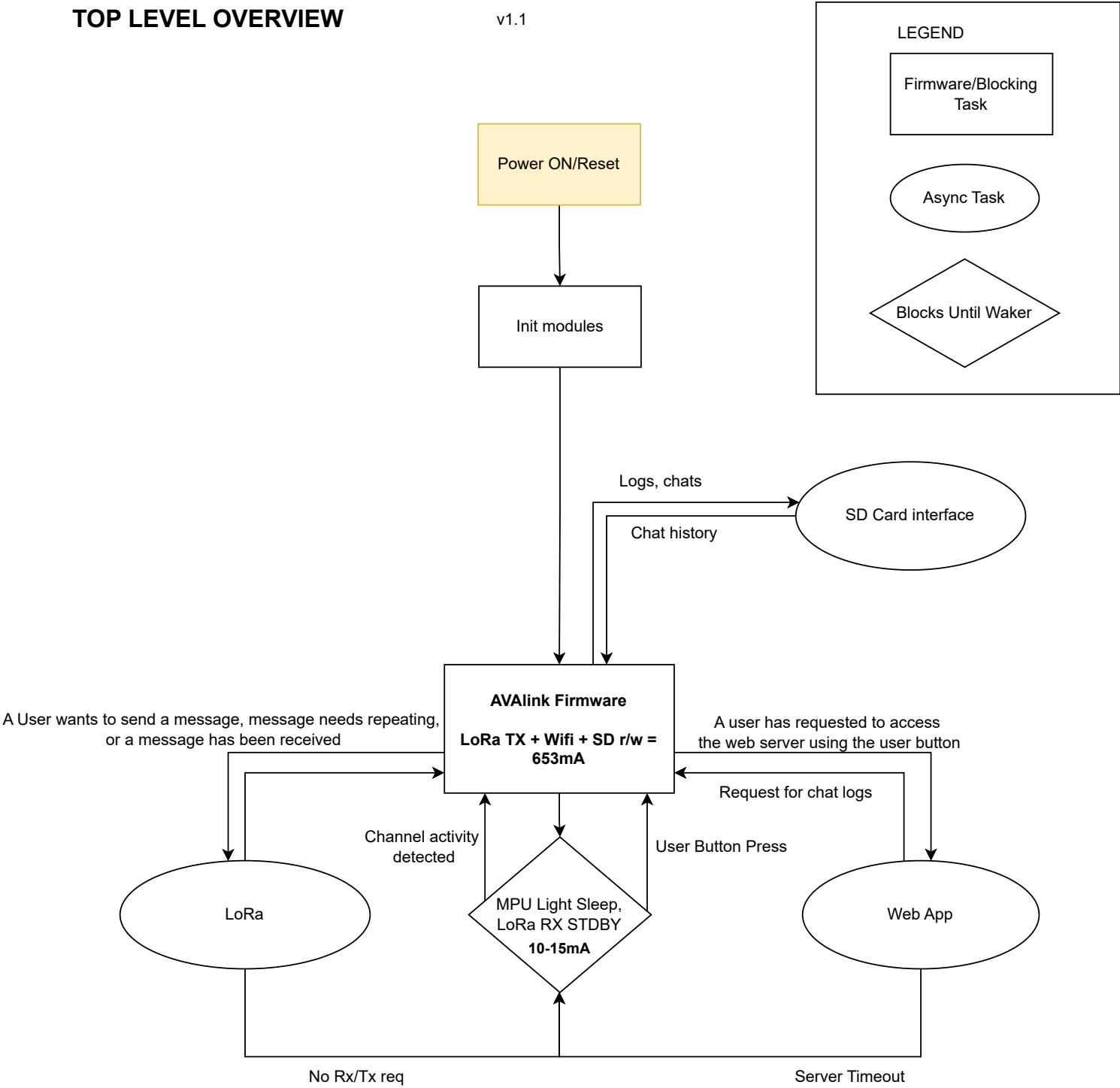
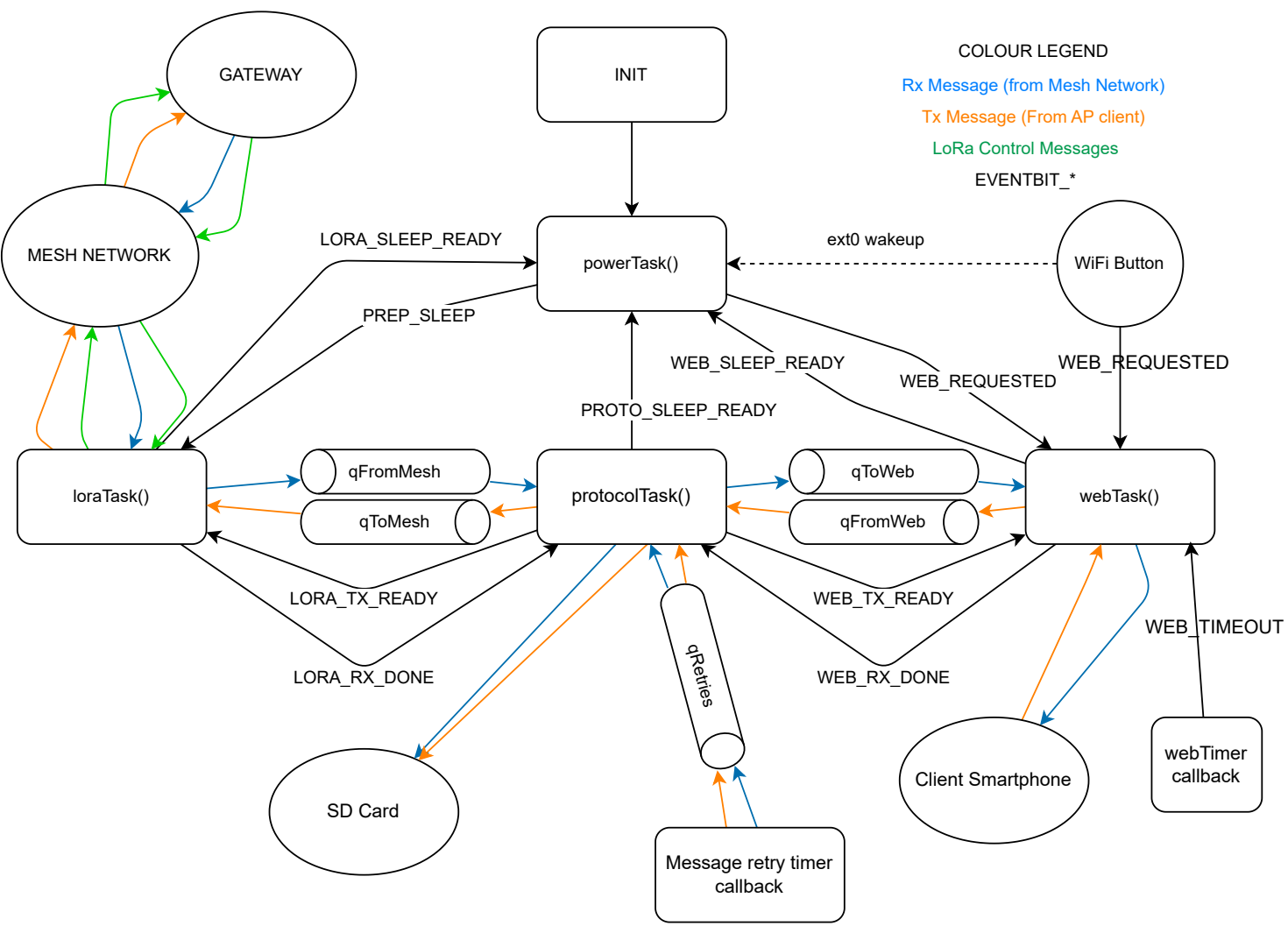


TOP LEVEL OVERVIEW

v1.1

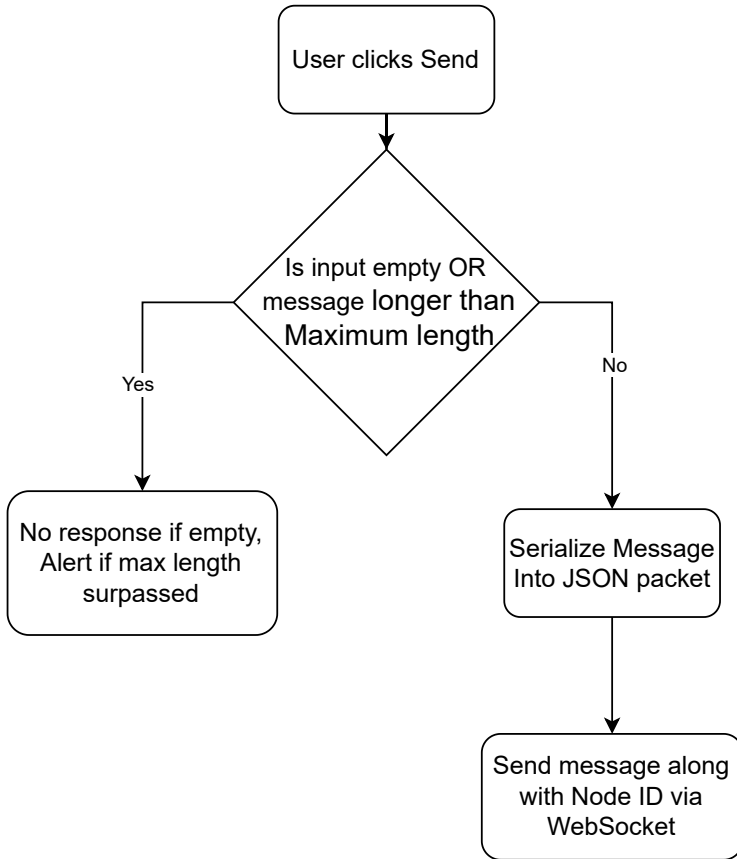




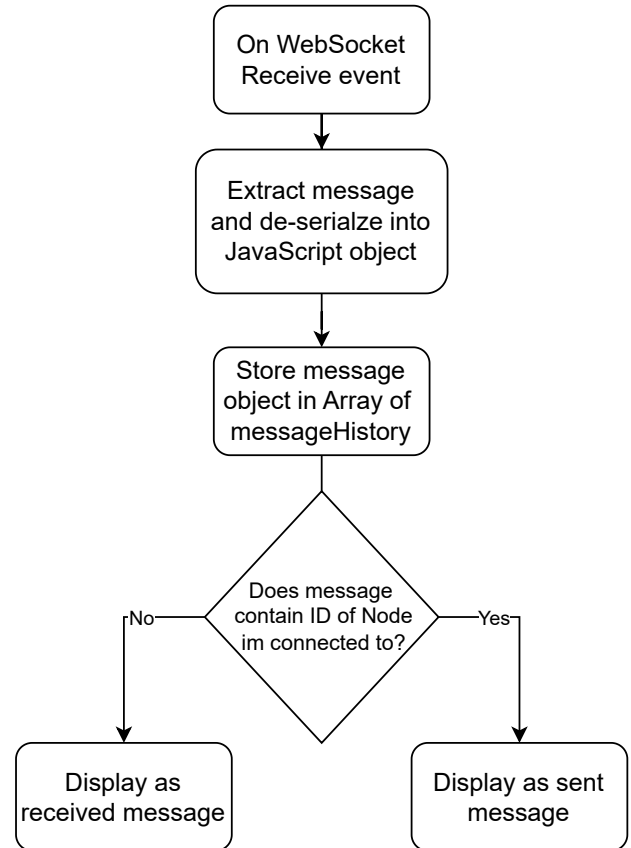
Web App Overview

v1.1

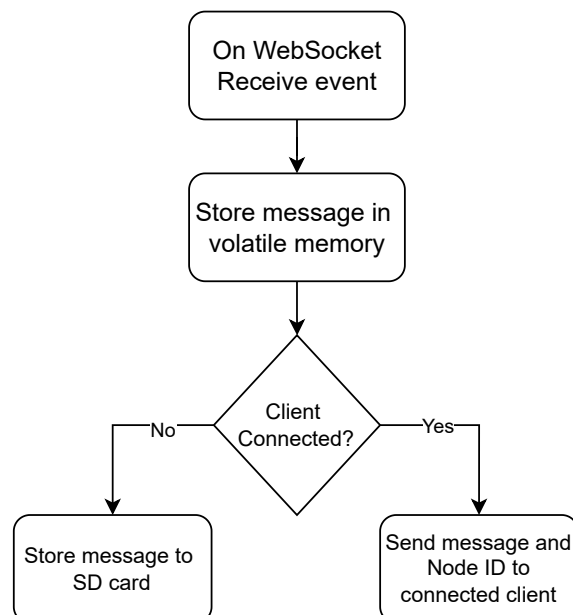
Client Send



Client Receive

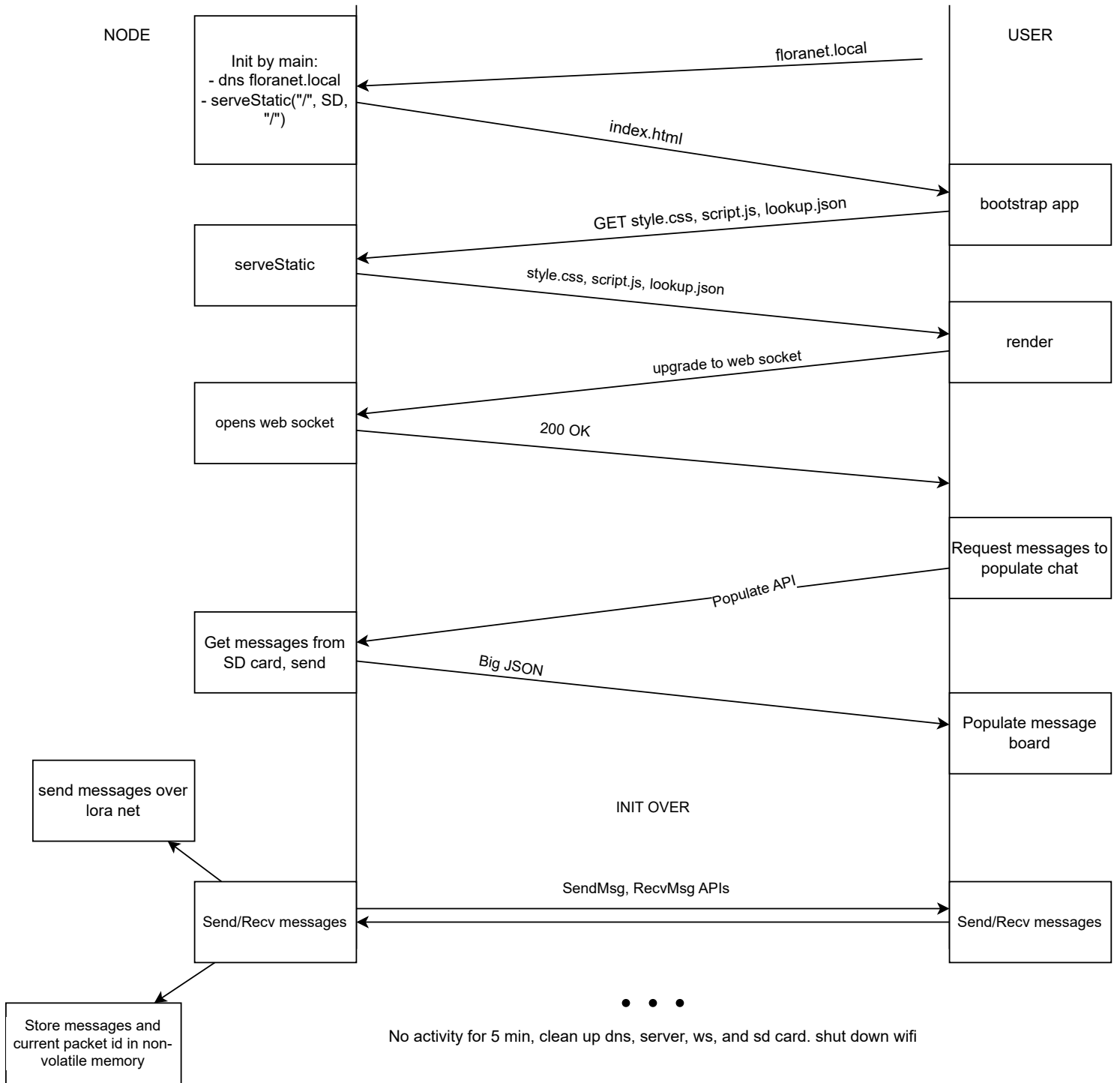


Server Transactions



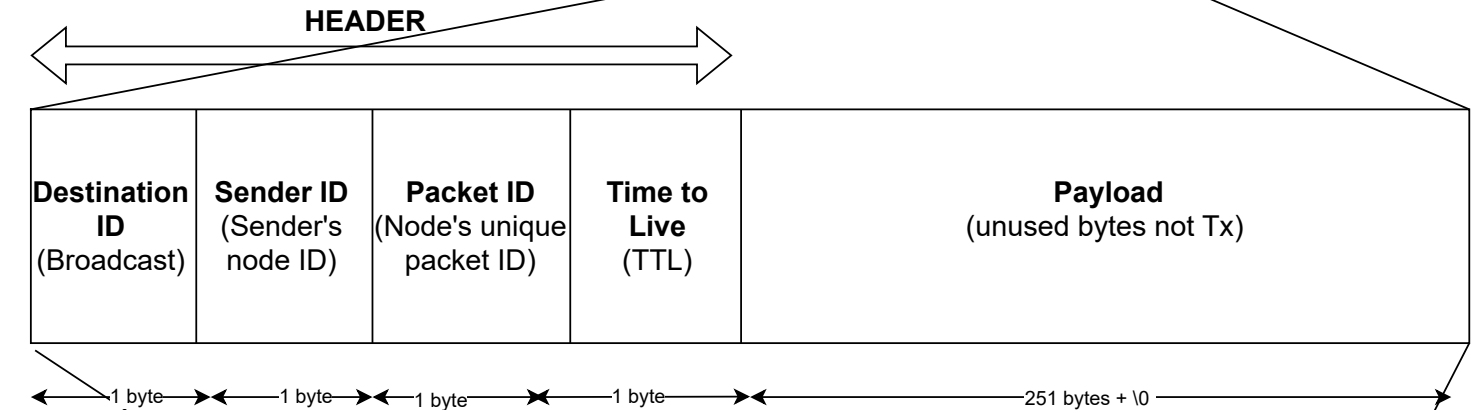
Application Layer

v1.2 - December 14 2024



Layer 3
APPLICATION (Web Task)

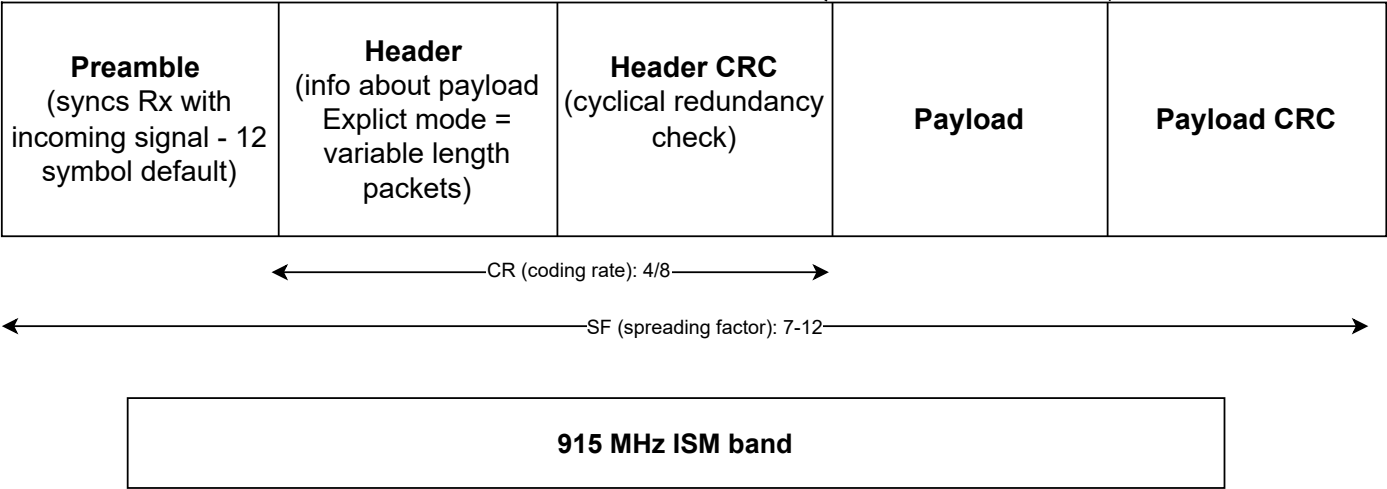
Layer 2
TRANSPORT (Protocol & LoRa Tasks)



Layer 1
PHYSICAL

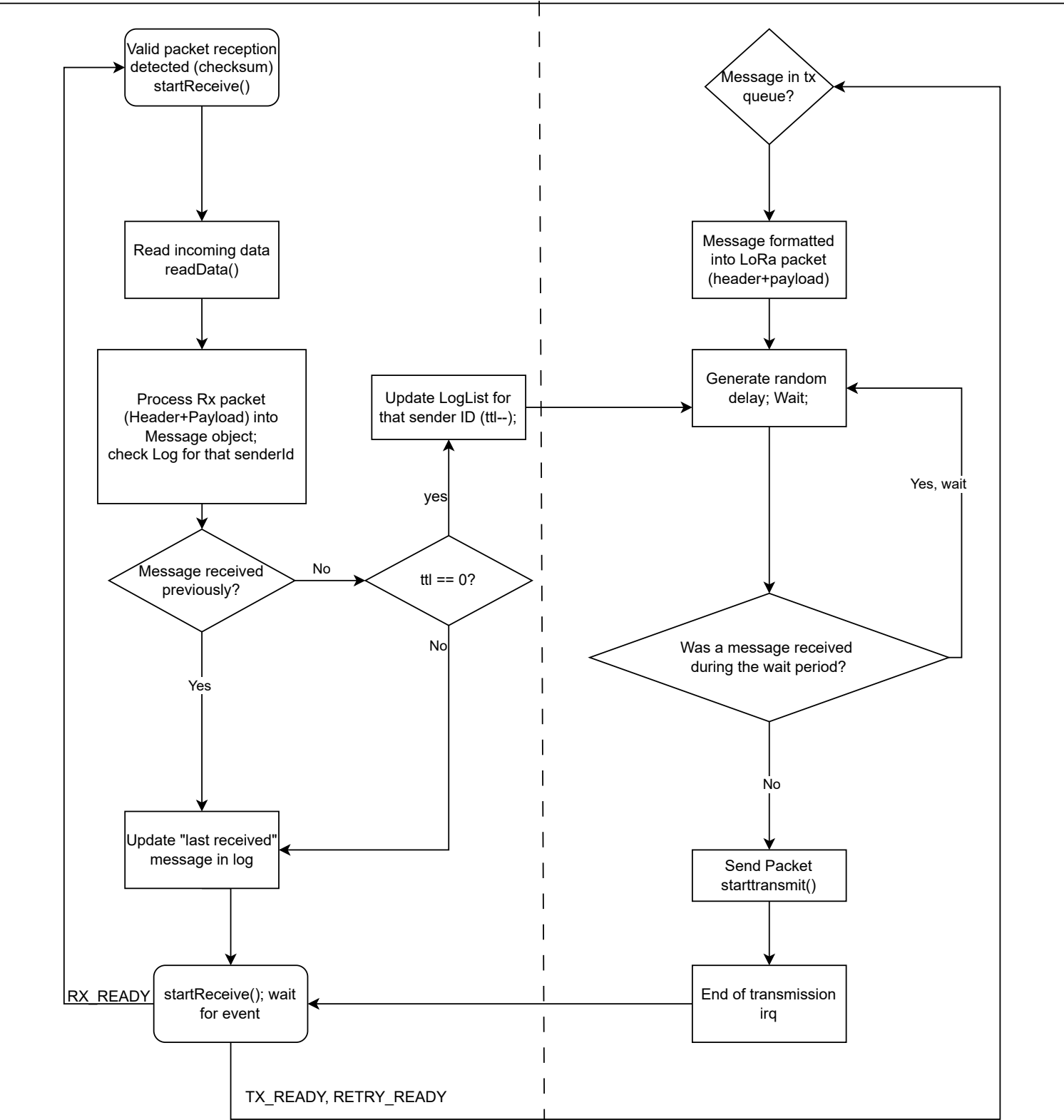
HANDLED BY SEMTECH SX1262

RadioLib (interfacing library between Layer 1&2)
LONG FAST (high resilience to noise)
Frequency: 915Mhz
Preamble size: 16bit
Sync word: custom
data rate: 1.07 kbps
SF/symbols: 11/2048
CR: 4/5
BW: 250 kHz
Power: 30dB
(meshtastic/firmware/src/mesh/sx126xinterface.cpp)
(meshtastic/firmware/src/mesh/RadioLibRF95.cpp)

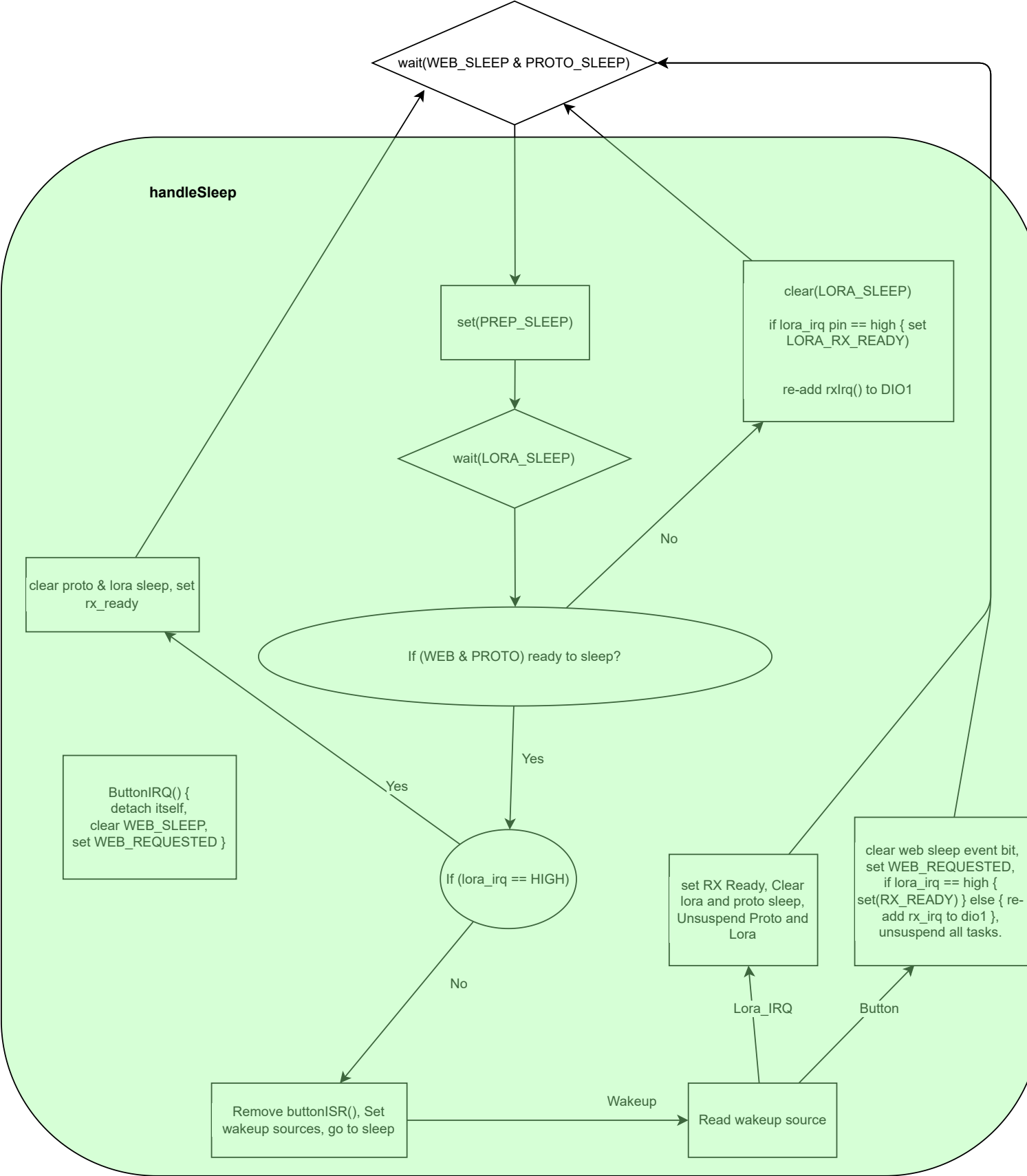


Rx

Tx



Power Management Task (FloraNetPower.cpp)



Needs access to:

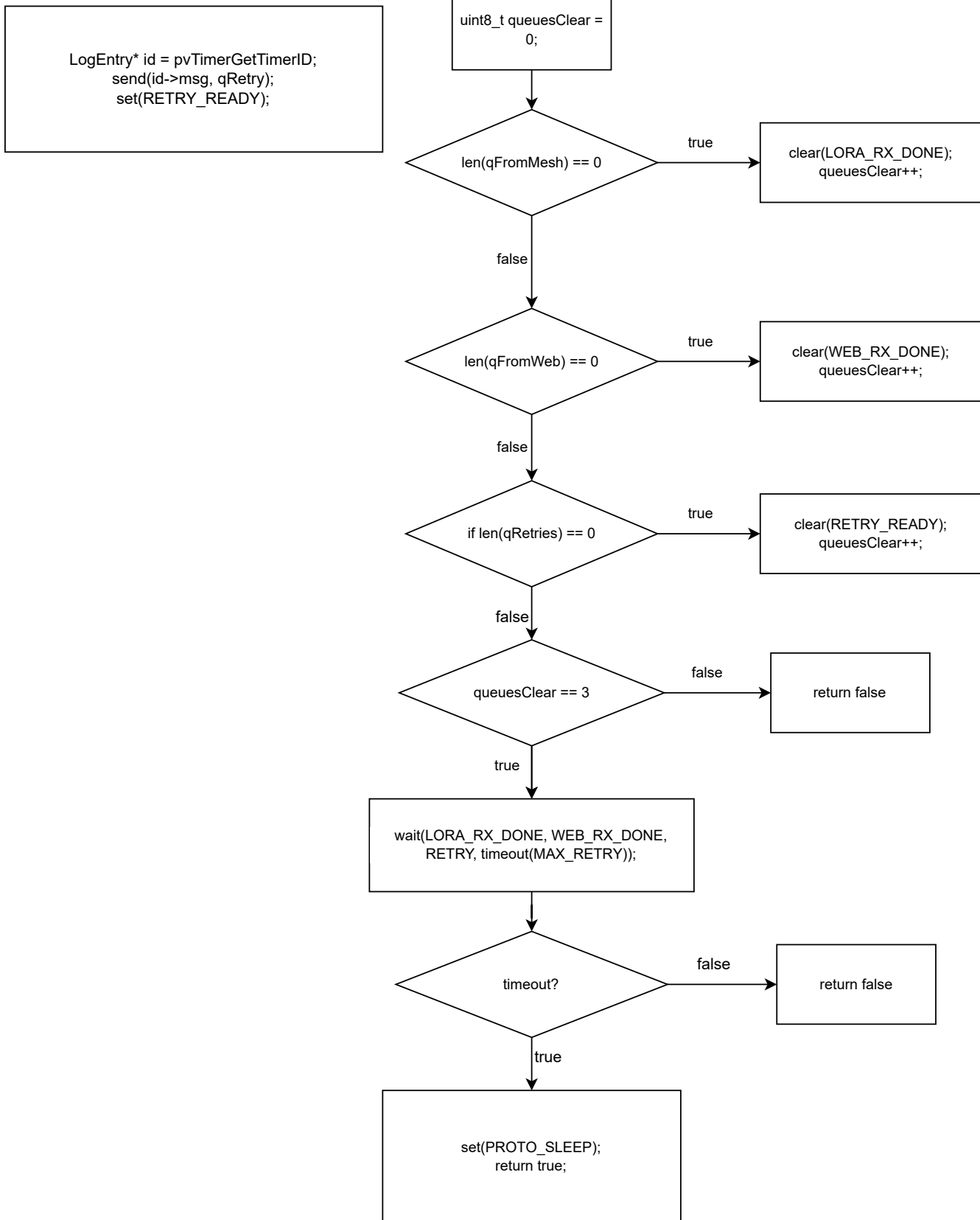
Sx1262
all task handles
isrs

Protocol Task (FloraNetProto.cpp)

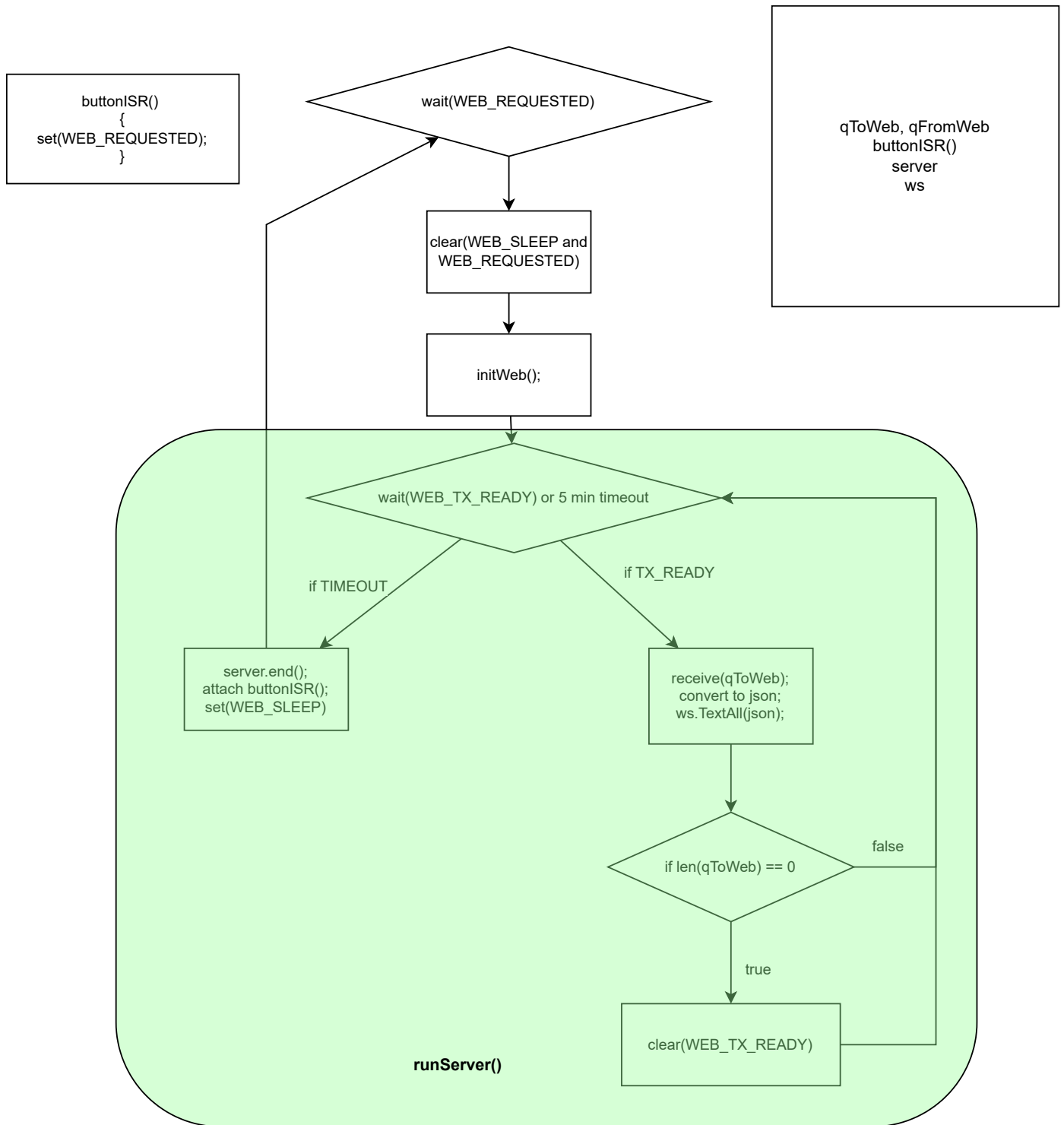


Timer callback

bool readyToSleep()

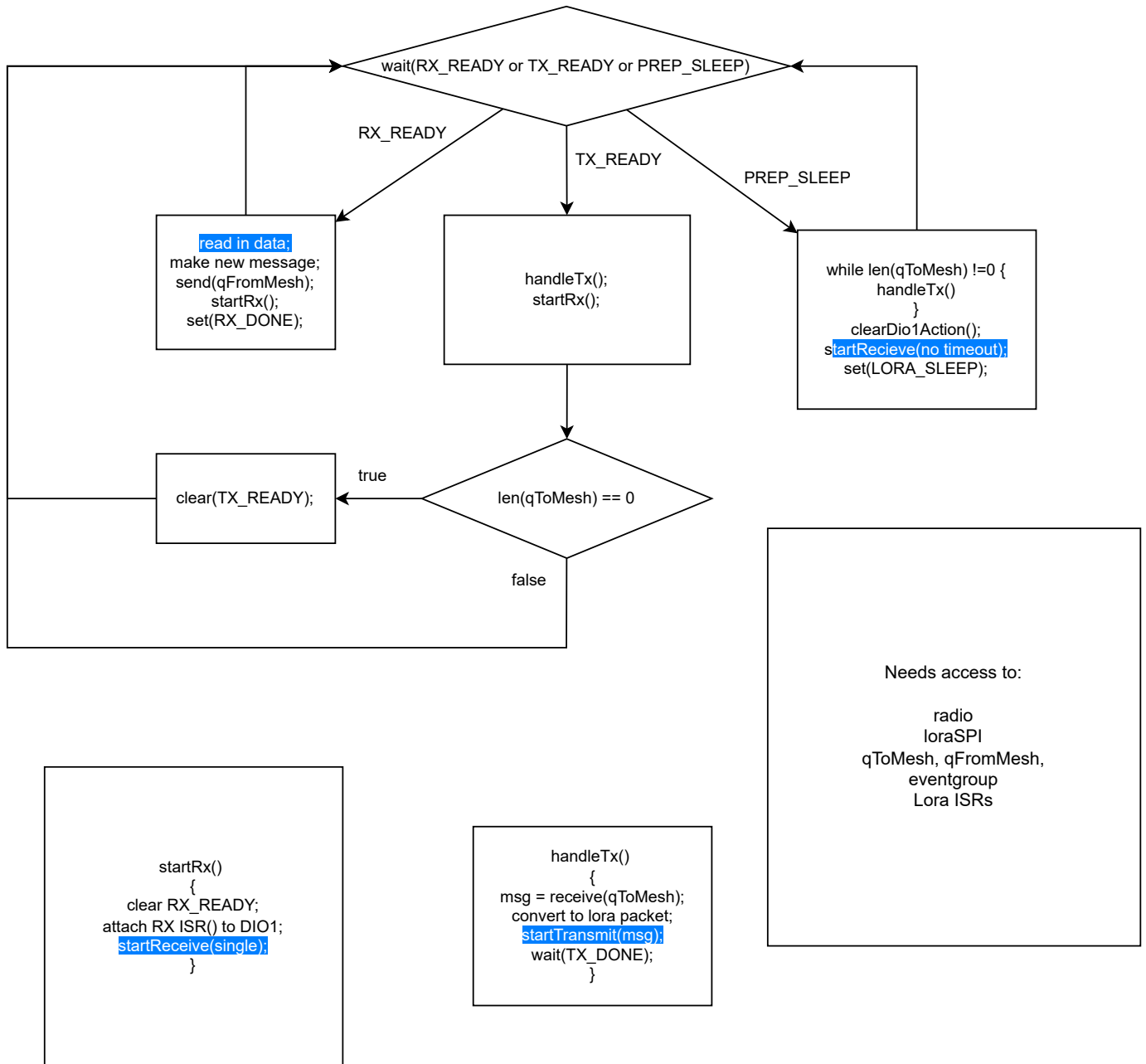


Web Task (FloraNetWeb.cpp)



LoRa Task (FloraNetRadio.cpp)

CRITICAL SECTION



#include Filetree

