

## ns3::lorawan::LoraMac

# m\_cannotSendBecauseDutyCycle # m\_receivedPacket # m\_sentNewPacket # m\_phy # m\_device

# m\_channelHelper # m\_sfForDataRate # m\_bandwidthForDataRate

# m\_maxAppPayloadForDataRate # m\_nPreambleSymbols

# m\_txDbmForTxPower # m\_replyDataRateMatrix

+ LoraMac()

+ ~LoraMac() + SetPhy()

+ GetPhy()

+ Send()

+ Receive()+ FailedReception()

+ TxFinished() + SetDevice()

+ GetDevice()

+ GetLogicalLoraChannelHelper() + SetLogicalLoraChannelHelper()

+ GetSfFromDataRate()

+ GetBandwidthFromDataRate()

+ GetDbmForTxPower()
+ SetSfForDataRate()

+ SetBandwidthForDataRate()

+ SetMaxAppPayloadForDataRate()

+ SetTxDbmForTxPower() + SetReplyDataRateMatrix()

+ SetNPreambleSymbols()

+ GetNPreambleSymbols()

+ GetTypeId()

ns3::lorawan::GatewayLoraMac

- + GatewayLoraMac()
  + ~GatewayLoraMac()
- + ~GatewayLoraMac() + Send()
  - + IsTransmitting() + Receive()
  - + FailedReception()
  - + TxFinished()+ GetWaitingTime()
- + GetTypeId()