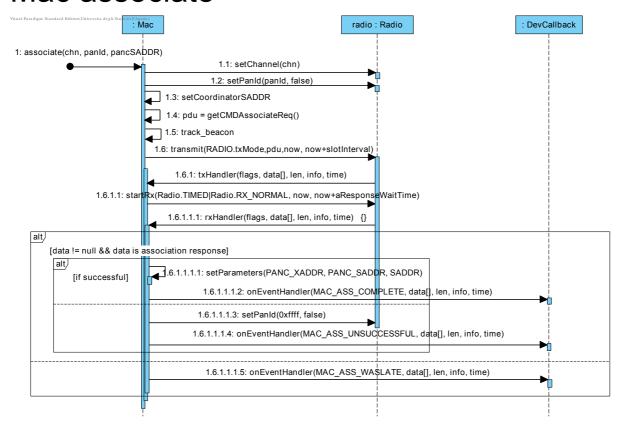
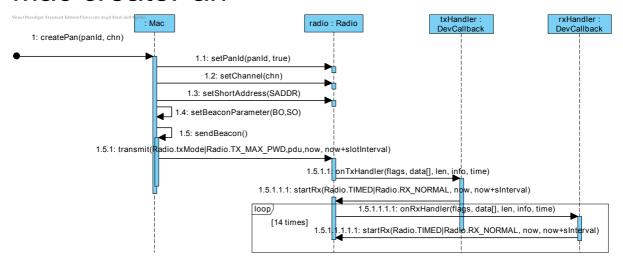
Mac associate



- 🕇 : Mac
- ₹ radio : Radio
- 🖶 : DevCallback
- data != null && data is association response
- Operand8
- **Operand9**
- if successful
- Operand 10
- Operand11

Mac createPan



Details

₱ : Mac

₹radio : Radio

₹txHandler : DevCallback

₹rxHandler : DevCallback

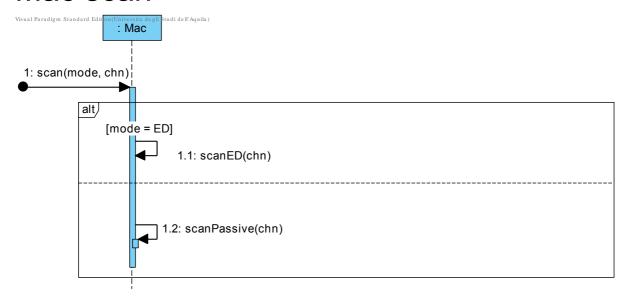
14 times

Operand

Sequence Diagram Mac disassociate

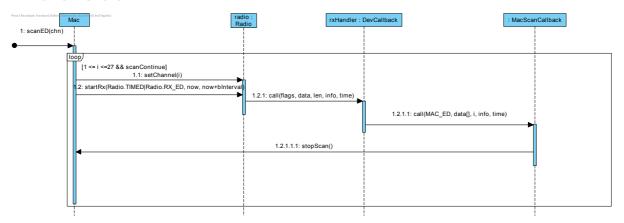
Mac enable

Mac scan



- ₹ : Mac
- ■mode = ED
- **Operand12**
- **Operand13**

Mac scanED



Details

₹ Mac

₹radio : Radio

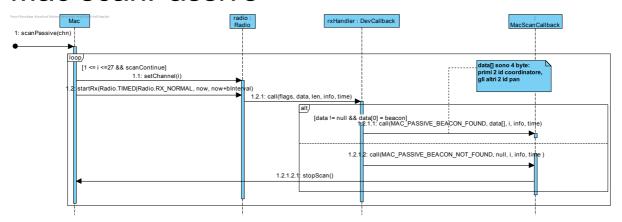
☐ rxHandler : DevCallback

: MacScanCallback

■1 <= i <=27 && scanContinue</p>

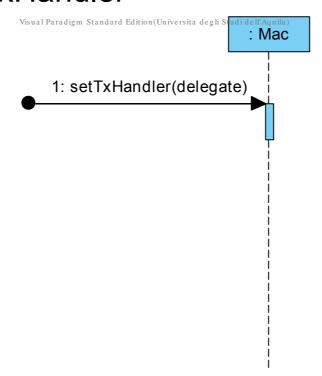
Operand

Mac scanPassive



- ₹ Mac
- ₹radio : Radio
- TrxHandler: DevCallback
- : MacScanCallback
- ■1 <= i <=27 && scanContinue</p>
- Operand
- data != null && data[0] = beacon
- Operand2
- **Operand3**
- N/A

Mac setTxHandler

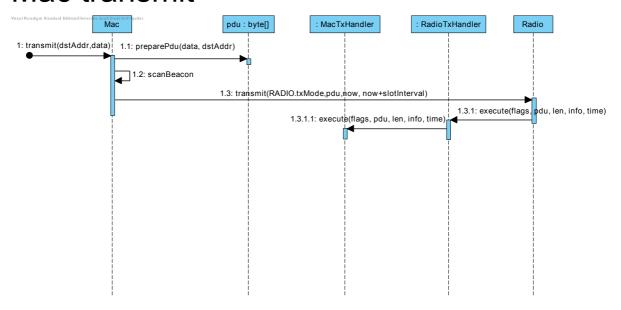


Details



₹ : Mac

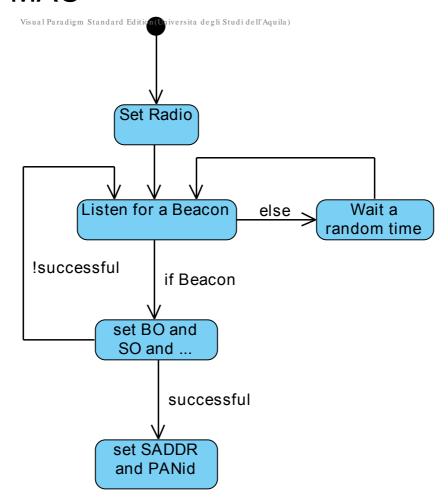
Mac transmit



- ₹ Mac
- ₹pdu:byte[]
- **Radio**
- : RadioTxHandler
- : MacTxHandler

State Machine Diagram

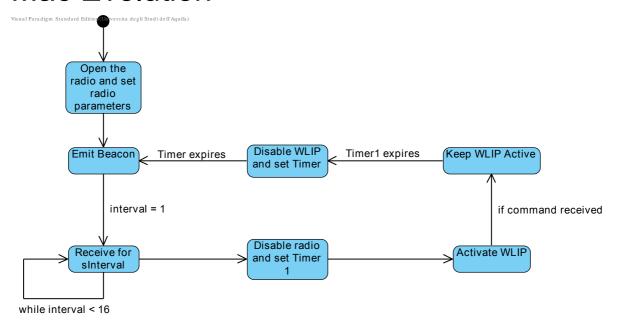
Base MAC



- N/A
- Set Radio
- Listen for a Beacon
- set BO and SO and require association
- set SADDR and PANid
- Wait a random time

State Machine Diagram

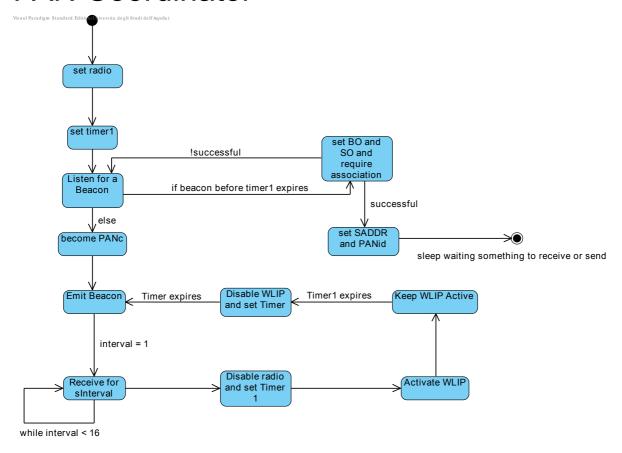
Mac Evolution



- N/A
- Open the radio and set radio parameters
- Emit Beacon
- Receive for sInterval
- Disable radio and set Timer 1
- Activate WLIP
- Keep WLIP Active
- Disable WLIP and set Timer

State Machine Diagram

PAN Coordinator

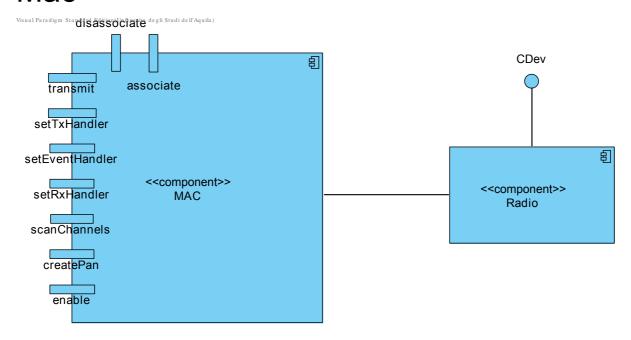


- N/A
- set radio
- set timer1
- Listen for a Beacon
- set BO and SO and require association
- set SADDR and PANid
- sleep waiting something to receive or send
- become PANc
- Emit Beacon
- Receive for sInterval

- Disable radio and set Timer 1
- Activate WLIP
- Keep WLIP Active
- Disable WLIP and set Timer

Component Diagram

Mac



- disassociate
- associate
- **MAC**
- **1** transmit
- **■** CDev
- setTxHandler
- setEventHandler
- Radio
- setRxHandler
- scanChannels
- createPan
- enable