**Simulator Log example**

**\*\* Event #1780 T=3.841289221357 *sim.host[1].net* (BaseNetwLayer, id=26), on `BROADCAST\_REPLY\_MESSAGE' (ApplPkt, id=495)**

**in encaps...**

**Node 1 sending message: network layer,MAC and Phy**

**CInfo removed, netw addr=50**

**netw 26 sending packet**

**sendDown: get the MAC address**

**host[0]::BaseArp: for host[4]: netwAddr 50; MAC address 51**

**pkt encapsulated**

**\*\* Event #1781 T=3.841289221357 sim.host[1].nic.mac (Mac80211, id=28), on `BROADCAST\_REPLY\_MESSAGE' (NetwPkt, id=1037)**

**Mac80211::handleUpperMsg BROADCAST\_REPLY\_MESSAGE**

**CInfo removed, mac addr=51**

**pkt encapsulated, length: 1328**

**packet (NetwPkt)BROADCAST\_REPLY\_MESSAGE received from higher layer, dest=51, encapsulated**

**state IDLE --> CONTEND**

**[Host 1] - PhyLayer(Decider): Creating RSSI map.**

**3.841289221357 do contention: medium = [idle with rssi of 1e-11], backoff = 0**

**\*\* Event #1782 T=3.841289221357 sim.host[1].nic.phy (PhyLayer, id=29), on `contention' (ChannelSenseRequest, id=8)**

\*\* Event #1783 T=3.841317221357 sim.host[1].nic.phy (PhyLayer, id=29), on selfmsg `contention' (ChannelSenseRequest, id=8)

[Host 1] - PhyLayer(Decider): Creating RSSI map.

\*\* Event #1784 T=3.841317221357 sim.host[1].nic.mac (Mac80211, id=28), on `contention' (ChannelSenseRequest, id=8)

3.841317221357 handleLowerControl contention

Mac80211::**sendRTSframe duration: 0.000058666666** br: 6e+06

**Node 1 : sending RTS frame, waiting for CTS**

Mac80211::timeOut RTS 0.000119334332

**state CONTEND --> WFCTS**

\*\* Event #1785 T=3.841317221357 sim.host[1].nic.mac (Mac80211, id=28), on `{Radio switching over}' (cMessage, id=1039)

3.841317221357 handleLowerControl Radio switching over

\*\* Event #1786 T=3.841317221357 sim.host[1].nic.phy (PhyLayer, id=29), on `wlan-rts' (Mac80211Pkt, id=1040)

AirFrame encapsulated, length: 352

host[1]::PhyLayer: sendToChannel: sending to gates

\*\* Event #1787 T=3.841317221357 sim.host[2].nic.phy (PhyLayer, id=37), on `{}' (AirFrame, id=1042)

**host[2]::PhyLayer: Received new AirFrame with ID 59 from channel**

**Node 2 : receiving frame , path loss is computed and signal is strong enough**

**PhyLayer(SimplePathlossModel): sqrdistance is: 18500**

**PhyLayer(SimplePathlossModel): wavelength is: 0.124292**

**PhyLayer(SimplePathlossModel): distance factor is: 1.85028e-11**

**[Host 2] - PhyLayer(Decider): Processing AirFrame...**

**[Host 2] - PhyLayer(Decider): Signal is strong enough (3.14739e-11 > 1.12202e-12) -> Trying to receive AirFrame.**

host[2]::PhyLayer: Handed AirFrame with ID 59 to Decider. Next handling in 0.000058666666s.

\*\* Event #1788 T=3.841317221357 sim.host[3].nic.phy (PhyLayer, id=45), on `{}' (AirFrame, id=1043)

host[3]::PhyLayer: Received new AirFrame with ID 59 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 25000

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.01321e-11

[Host 3] - PhyLayer(Decider): Processing AirFrame...

[Host 3] - PhyLayer(Decider): Signal is strong enough (1.72351e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[3]::PhyLayer: Handed AirFrame with ID 59 to Decider. Next handling in 0.000058666666s.

\*\* Event #1789 T=3.841317221357 sim.host[4].nic.phy (PhyLayer, id=53), on `{}' (AirFrame, id=1044)

host[4]::PhyLayer: Received new AirFrame with ID 59 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 14900

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 2.85238e-11

[Host 4] - PhyLayer(Decider): Processing AirFrame...

[Host 4] - PhyLayer(Decider): Signal is strong enough (4.85201e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[4]::PhyLayer: Handed AirFrame with ID 59 to Decider. Next handling in 0.000058666666s.

\*\* Event #1790 T=3.841317221357 sim.host[5].nic.phy (PhyLayer, id=61), on `{}' (AirFrame, id=1045)

host[5]::PhyLayer: Received new AirFrame with ID 59 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 51200

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 2.41569e-12

[Host 5] - PhyLayer(Decider): Processing AirFrame...

[Host 5] - PhyLayer(Decider): Signal is strong enough (4.10917e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[5]::PhyLayer: Handed AirFrame with ID 59 to Decider. Next handling in 0.000058666666s.

\*\* Event #1791 T=3.841317221357 sim.host[6].nic.phy (PhyLayer, id=69), on `{}' (AirFrame, id=1046)

host[6]::PhyLayer: Received new AirFrame with ID 59 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 19625

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.64422e-11

[Host 6] - PhyLayer(Decider): Processing AirFrame...

[Host 6] - PhyLayer(Decider): Signal is strong enough (2.79688e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[6]::PhyLayer: Handed AirFrame with ID 59 to Decider. Next handling in 0.000058666666s.

\*\* Event #1792 T=3.841317221357 sim.host[7].nic.phy (PhyLayer, id=77), on `{}' (AirFrame, id=1047)

host[7]::PhyLayer: Received new AirFrame with ID 59 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 16000

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 2.47366e-11

[Host 7] - PhyLayer(Decider): Processing AirFrame...

[Host 7] - PhyLayer(Decider): Signal is strong enough (4.20779e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[7]::PhyLayer: Handed AirFrame with ID 59 to Decider. Next handling in 0.000058666666s.

\*\* Event #1793 T=3.841317221357 sim.host[8].nic.phy (PhyLayer, id=85), on `{}' (AirFrame, id=1048)

host[8]::PhyLayer: Received new AirFrame with ID 59 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 57809

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.89491e-12

[Host 8] - PhyLayer(Decider): Processing AirFrame...

[Host 8] - PhyLayer(Decider): Signal is strong enough (3.22332e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[8]::PhyLayer: Handed AirFrame with ID 59 to Decider. Next handling in 0.000058666666s.

\*\* Event #1794 T=3.841317221357 sim.host[9].nic.phy (PhyLayer, id=93), on `{}' (AirFrame, id=1041)

host[9]::PhyLayer: Received new AirFrame with ID 59 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 39200

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 4.12105e-12

[Host 9] - PhyLayer(Decider): Processing AirFrame...

[Host 9] - PhyLayer(Decider): Signal is strong enough (7.01006e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[9]::PhyLayer: Handed AirFrame with ID 59 to Decider. Next handling in 0.000058666666s.

**\*\* Event #1795 T=3.841375888023 sim.host[1].nic.phy (PhyLayer, id=29), on selfmsg `{transmission over}' (cMessage, id=53)**

**\*\* Event #1796 T=3.841375888023 sim.host[1].nic.mac (Mac80211, id=28), on `{Transmission over}' (cMessage, id=1049)**

**Node 1 : sending RTS frame complete**

**3.841375888023 handleLowerControl Transmission over**

**PHY indicated transmission over**

**transmission of packet is over**

\*\* Event #1797 T=3.841375888023 sim.host[1].nic.mac (Mac80211, id=28), on `{Radio switching over}' (cMessage, id=1050)

3.841375888023 handleLowerControl Radio switching over

\*\* Event #1798 T=3.841375888023 sim.host[2].nic.phy (PhyLayer, id=37), on selfmsg `{}' (AirFrame, id=1042)

[Host 2] - PhyLayer(Decider): Processing AirFrame...

**[Host 2] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 59**

**snrMin: 3.11888**

**Node 2 : SINR is computed, random decode model : packet is received correctly but destination isn't node 2**

**berHeader: 1.52733e-05 berMPDU: 2.11603e-10**

**packet was received correctly, it is now handed to upper layer...**

host[2]::PhyLayer: Decapsulating MacPacket from Airframe with ID 59 and sending it up to MAC.

host[2]::PhyLayer: End of Airframe with ID 59.

**\*\* Event #1799 T=3.841375888023 sim.host[2].nic.mac (Mac80211, id=36), on `wlan-rts' (Mac80211Pkt, id=1051)**

handleLowerMsg frame (Mac80211Pkt)wlan-rts received

updated information for neighbor: 27 snr: 3.11888 bitrate: 1.2e+07

**handle msg not for me wlan-rts**

NAV timer started, not QUIET: 0.000384666665

state IDLE --> QUIET

cannot beginNewCycle until NAV expires at t 3.841760554688

\*\* Event #1800 T=3.841375888023 sim.host[3].nic.phy (PhyLayer, id=45), on selfmsg `{}' (AirFrame, id=1043)

[Host 3] - PhyLayer(Decider): Processing AirFrame...

[Host 3] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 59

snrMin: 1.7079

berHeader: 0.00168475 berMPDU: 3.42015e-06

packet was received correctly, it is now handed to upper layer...

host[3]::PhyLayer: Decapsulating MacPacket from Airframe with ID 59 and sending it up to MAC.

host[3]::PhyLayer: End of Airframe with ID 59.

\*\* Event #1801 T=3.841375888023 sim.host[3].nic.mac (Mac80211, id=44), on `wlan-rts' (Mac80211Pkt, id=1052)

handleLowerMsg frame (Mac80211Pkt)wlan-rts received

updated information for neighbor: 27 snr: 1.7079 bitrate: 9e+06

handle msg not for me wlan-rts

NAV timer started, not QUIET: 0.000384666665

state IDLE --> QUIET

cannot beginNewCycle until NAV expires at t 3.841760554688

\*\* Event #1802 T=3.841375888023 sim.host[4].nic.phy (PhyLayer, id=53), on selfmsg `{}' (AirFrame, id=1044)

[Host 4] - PhyLayer(Decider): Processing AirFrame...

[Host 4] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 59

snrMin: 4.80805

berHeader: 5.47776e-08 berMPDU: 2.20915e-15

packet was received correctly, it is now handed to upper layer...

host[4]::PhyLayer: Decapsulating MacPacket from Airframe with ID 59 and sending it up to MAC.

**host[4]::PhyLayer: End of Airframe with ID 59.**

**\*\* Event #1803 T=3.841375888023 sim.host[4].nic.mac (Mac80211, id=52), on `wlan-rts' (Mac80211Pkt, id=1053)**

**Node 4 receives RTS packet**

**handleLowerMsg frame (Mac80211Pkt)wlan-rts received**

**updated information for neighbor: 27 snr: 4.80805 bitrate: 1.8e+07**

**handle msg for me wlan-rts in IDLE**

\*\* Event #1804 T=3.841375888023 sim.host[4].nic.phy (PhyLayer, id=53), on `{end SIFS}' (ChannelSenseRequest, id=24)

\*\* Event #1805 T=3.841375888023 sim.host[5].nic.phy (PhyLayer, id=61), on selfmsg `{}' (AirFrame, id=1045)

**[Host 5] - PhyLayer(Decider): Processing AirFrame...**

**[Host 5] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 59**

**snrMin: 0.407194**

**Node 5 : SINR is computed, random decode model : packet is not received correctly (SINR too small)**

**berHeader: 0.128676 berMPDU: 0.0371289**

**Packet has BIT ERRORS! It is lost!**

packet was not received correctly, sending it as control message to upper layer

host[5]::PhyLayer: End of Airframe with ID 59.

\*\* Event #1806 T=3.841375888023 sim.host[5].nic.mac (Mac80211, id=60), on `ERROR' (Mac80211Pkt, id=1054)

3.841375888023 handleLowerControl ERROR

handle msg not for me ERROR

staying in state IDLE

\*\* Event #1807 T=3.841375888023 sim.host[6].nic.phy (PhyLayer, id=69), on selfmsg `{}' (AirFrame, id=1046)

[Host 6] - PhyLayer(Decider): Processing AirFrame...

[Host 6] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 59

snrMin: 2.77155

berHeader: 4.86121e-05 berMPDU: 2.26784e-09

packet was received correctly, it is now handed to upper layer...

host[6]::PhyLayer: Decapsulating MacPacket from Airframe with ID 59 and sending it up to MAC.

host[6]::PhyLayer: End of Airframe with ID 59.

\*\* Event #1808 T=3.841375888023 sim.host[6].nic.mac (Mac80211, id=68), on `wlan-rts' (Mac80211Pkt, id=1055)

handleLowerMsg frame (Mac80211Pkt)wlan-rts received

updated information for neighbor: 27 snr: 2.77155 bitrate: 1.2e+07

handle msg not for me wlan-rts

NAV timer started, not QUIET: 0.000384666665

state IDLE --> QUIET

cannot beginNewCycle until NAV expires at t 3.841760554688

\*\* Event #1809 T=3.841375888023 sim.host[7].nic.phy (PhyLayer, id=77), on selfmsg `{}' (AirFrame, id=1047)

[Host 7] - PhyLayer(Decider): Processing AirFrame...

[Host 7] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 59

snrMin: 4.16967

berHeader: 4.59997e-07 berMPDU: 1.66918e-13

packet was received correctly, it is now handed to upper layer...

host[7]::PhyLayer: Decapsulating MacPacket from Airframe with ID 59 and sending it up to MAC.

host[7]::PhyLayer: End of Airframe with ID 59.

\*\* Event #1810 T=3.841375888023 sim.host[7].nic.mac (Mac80211, id=76), on `wlan-rts' (Mac80211Pkt, id=1056)

handleLowerMsg frame (Mac80211Pkt)wlan-rts received

updated information for neighbor: 27 snr: 4.16967 bitrate: 1.8e+07

handle msg not for me wlan-rts

NAV timer started, not QUIET: 0.000384666665

state IDLE --> QUIET

cannot beginNewCycle until NAV expires at t 3.841760554688

\*\* Event #1811 T=3.841375888023 sim.host[8].nic.phy (PhyLayer, id=85), on selfmsg `{}' (AirFrame, id=1048)

[Host 8] - PhyLayer(Decider): Processing AirFrame...

[Host 8] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 59

snrMin: 0.319412

berHeader: 0.172415 berMPDU: 0.0732131

Packet has BIT ERRORS! It is lost!

packet was not received correctly, sending it as control message to upper layer

host[8]::PhyLayer: End of Airframe with ID 59.

\*\* Event #1812 T=3.841375888023 sim.host[8].nic.mac (Mac80211, id=84), on `ERROR' (Mac80211Pkt, id=1057)

3.841375888023 handleLowerControl ERROR

handle msg not for me ERROR

staying in state IDLE

\*\* Event #1813 T=3.841375888023 sim.host[9].nic.phy (PhyLayer, id=93), on selfmsg `{}' (AirFrame, id=1041)

[Host 9] - PhyLayer(Decider): Processing AirFrame...

[Host 9] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 59

snrMin: 0.694655

berHeader: 0.0493575 berMPDU: 0.00438653

Packet has BIT ERRORS! It is lost!

packet was not received correctly, sending it as control message to upper layer

host[9]::PhyLayer: End of Airframe with ID 59.

\*\* Event #1814 T=3.841375888023 sim.host[9].nic.mac (Mac80211, id=92), on `ERROR' (Mac80211Pkt, id=1040)

3.841375888023 handleLowerControl ERROR

handle msg not for me ERROR

staying in state IDLE

\*\* Event #1815 T=3.841385888023 sim.host[4].nic.phy (PhyLayer, id=53), on selfmsg `{end SIFS}' (ChannelSenseRequest, id=24)

[Host 4] - PhyLayer(Decider): Creating RSSI map.

**\*\* Event #1816 T=3.841385888023 sim.host[4].nic.mac (Mac80211, id=52), on `{end SIFS}' (ChannelSenseRequest, id=24)**

**Node 4 : sending CTS**

**3.841385888023 handleLowerControl end SIFS**

**Mac80211::sendCTSframe duration: 0.000050666666 br: 6e+06**

**state IDLE --> WFDATA**

\*\* Event #1817 T=3.841385888023 sim.host[4].nic.mac (Mac80211, id=52), on `{Radio switching over}' (cMessage, id=1058)

3.841385888023 handleLowerControl Radio switching over

\*\* Event #1818 T=3.841385888023 sim.host[4].nic.phy (PhyLayer, id=53), on `wlan-cts' (Mac80211Pkt, id=1059)

AirFrame encapsulated, length: 304

host[4]::PhyLayer: sendToChannel: sending to gates

\*\* Event #1819 T=3.841385888023 sim.host[1].nic.phy (PhyLayer, id=29), on `{}' (AirFrame, id=1061)

host[1]::PhyLayer: Received new AirFrame with ID 60 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 14900

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 2.85238e-11

[Host 1] - PhyLayer(Decider): Processing AirFrame...

[Host 1] - PhyLayer(Decider): Signal is strong enough (4.85201e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[1]::PhyLayer: Handed AirFrame with ID 60 to Decider. Next handling in 0.000050666666s.

\*\* Event #1820 T=3.841385888023 sim.host[0].nic.phy (PhyLayer, id=21), on `{}' (AirFrame, id=1062)

host[0]::PhyLayer: Received new AirFrame with ID 60 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 36325

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 4.7992e-12

[Host 0] - PhyLayer(Decider): Processing AirFrame...

[Host 0] - PhyLayer(Decider): Signal is strong enough (8.16362e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[0]::PhyLayer: Handed AirFrame with ID 60 to Decider. Next handling in 0.000050666666s.

\*\* Event #1821 T=3.841385888023 sim.host[2].nic.phy (PhyLayer, id=37), on `{}' (AirFrame, id=1063)

host[2]::PhyLayer: Received new AirFrame with ID 60 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 43600

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 3.33125e-12

[Host 2] - PhyLayer(Decider): Processing AirFrame...

[Host 2] - PhyLayer(Decider): Signal is strong enough (5.66658e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[2]::PhyLayer: Handed AirFrame with ID 60 to Decider. Next handling in 0.000050666666s.

\*\* Event #1822 T=3.841385888023 sim.host[3].nic.phy (PhyLayer, id=45), on `{}' (AirFrame, id=1064)

host[3]::PhyLayer: Received new AirFrame with ID 60 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 26500

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 9.01755e-12

[Host 3] - PhyLayer(Decider): Processing AirFrame...

[Host 3] - PhyLayer(Decider): Signal is strong enough (1.53392e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[3]::PhyLayer: Handed AirFrame with ID 60 to Decider. Next handling in 0.000050666666s.

\*\* Event #1823 T=3.841385888023 sim.host[6].nic.phy (PhyLayer, id=69), on `{}' (AirFrame, id=1065)

host[6]::PhyLayer: Received new AirFrame with ID 60 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 13925

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 3.2658e-11

[Host 6] - PhyLayer(Decider): Processing AirFrame...

[Host 6] - PhyLayer(Decider): Signal is strong enough (5.55525e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[6]::PhyLayer: Handed AirFrame with ID 60 to Decider. Next handling in 0.000050666666s.

\*\* Event #1824 T=3.841385888023 sim.host[7].nic.phy (PhyLayer, id=77), on `{}' (AirFrame, id=1066)

host[7]::PhyLayer: Received new AirFrame with ID 60 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 60500

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.73009e-12

[Host 7] - PhyLayer(Decider): Processing AirFrame...

[Host 7] - PhyLayer(Decider): Signal is strong enough (2.94295e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[7]::PhyLayer: Handed AirFrame with ID 60 to Decider. Next handling in 0.000050666666s.

\*\* Event #1825 T=3.841385888023 sim.host[8].nic.phy (PhyLayer, id=85), on `{}' (AirFrame, id=1067)

host[8]::PhyLayer: Received new AirFrame with ID 60 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 61309

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.68474e-12

[Host 8] - PhyLayer(Decider): Processing AirFrame...

[Host 8] - PhyLayer(Decider): Signal is strong enough (2.8658e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[8]::PhyLayer: Handed AirFrame with ID 60 to Decider. Next handling in 0.000050666666s.

\*\* Event #1826 T=3.841385888023 sim.host[9].nic.phy (PhyLayer, id=93), on `{}' (AirFrame, id=1060)

host[9]::PhyLayer: Received new AirFrame with ID 60 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 62500

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.62114e-12

[Host 9] - PhyLayer(Decider): Processing AirFrame...

[Host 9] - PhyLayer(Decider): Signal is strong enough (2.75762e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[9]::PhyLayer: Handed AirFrame with ID 60 to Decider. Next handling in 0.000050666666s.

\*\* Event #1827 T=3.841436554689 sim.host[4].nic.phy (PhyLayer, id=53), on selfmsg `{transmission over}' (cMessage, id=59)

\*\* Event #1828 T=3.841436554689 sim.host[4].nic.mac (Mac80211, id=52), on `{Transmission over}' (cMessage, id=1068)

3.841436554689 handleLowerControl Transmission over

PHY indicated transmission over

transmission of packet is over

\*\* Event #1829 T=3.841436554689 sim.host[4].nic.mac (Mac80211, id=52), on `{Radio switching over}' (cMessage, id=1069)

3.841436554689 handleLowerControl Radio switching over

\*\* Event #1830 T=3.841436554689 sim.host[1].nic.phy (PhyLayer, id=29), on selfmsg `{}' (AirFrame, id=1061)

[Host 1] - PhyLayer(Decider): Processing AirFrame...

[Host 1] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 60

snrMin: 4.80805

berHeader: 5.47776e-08 berMPDU: 2.20915e-15

packet was received correctly, it is now handed to upper layer...

host[1]::PhyLayer: Decapsulating MacPacket from Airframe with ID 60 and sending it up to MAC.

host[1]::PhyLayer: End of Airframe with ID 60.

**\*\* Event #1831 T=3.841436554689 sim.host[1].nic.mac (Mac80211, id=28), on `wlan-cts' (Mac80211Pkt, id=1070)**

**Node 1 : received CTS**

**handleLowerMsg frame (Mac80211Pkt)wlan-cts received**

**updated information for neighbor: 51 snr: 4.80805 bitrate: 1.8e+07**

**handle msg for me wlan-cts in WFCTS**

\*\* Event #1832 T=3.841436554689 sim.host[1].nic.phy (PhyLayer, id=29), on `{end SIFS}' (ChannelSenseRequest, id=9)

\*\* Event #1833 T=3.841436554689 sim.host[0].nic.phy (PhyLayer, id=21), on selfmsg `{}' (AirFrame, id=1062)

[Host 0] - PhyLayer(Decider): Processing AirFrame...

[Host 0] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 60

snrMin: 0.808966

berHeader: 0.0337188 berMPDU: 0.00191735

Packet has BIT ERRORS! It is lost!

packet was not received correctly, sending it as control message to upper layer

host[0]::PhyLayer: End of Airframe with ID 60.

\*\* Event #1834 T=3.841436554689 sim.host[0].nic.mac (Mac80211, id=20), on `ERROR' (Mac80211Pkt, id=1071)

3.841436554689 handleLowerControl ERROR

handle msg not for me ERROR

staying in state IDLE

\*\* Event #1835 T=3.841436554689 sim.host[2].nic.phy (PhyLayer, id=37), on selfmsg `{}' (AirFrame, id=1063)

[Host 2] - PhyLayer(Decider): Processing AirFrame...

[Host 2] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 60

snrMin: 0.561524

berHeader: 0.0769272 berMPDU: 0.0116524

Packet has BIT ERRORS! It is lost!

packet was not received correctly, sending it as control message to upper layer

host[2]::PhyLayer: End of Airframe with ID 60.

\*\* Event #1836 T=3.841436554689 sim.host[2].nic.mac (Mac80211, id=36), on `ERROR' (Mac80211Pkt, id=1072)

3.841436554689 handleLowerControl ERROR

handle msg not for me ERROR

cannot beginNewCycle until NAV expires at t 3.841760554688

\*\* Event #1837 T=3.841436554689 sim.host[3].nic.phy (PhyLayer, id=45), on selfmsg `{}' (AirFrame, id=1064)

[Host 3] - PhyLayer(Decider): Processing AirFrame...

[Host 3] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 60

snrMin: 1.52002

berHeader: 0.00315147 berMPDU: 1.26288e-05

packet was received correctly, it is now handed to upper layer...

host[3]::PhyLayer: Decapsulating MacPacket from Airframe with ID 60 and sending it up to MAC.

host[3]::PhyLayer: End of Airframe with ID 60.

\*\* Event #1838 T=3.841436554689 sim.host[3].nic.mac (Mac80211, id=44), on `wlan-cts' (Mac80211Pkt, id=1073)

handleLowerMsg frame (Mac80211Pkt)wlan-cts received

updated information for neighbor: 51 snr: 1.52002 bitrate: 9e+06

handle msg not for me wlan-cts

cannot beginNewCycle until NAV expires at t 3.841760554688

\*\* Event #1839 T=3.841436554689 sim.host[6].nic.phy (PhyLayer, id=69), on selfmsg `{}' (AirFrame, id=1065)

[Host 6] - PhyLayer(Decider): Processing AirFrame...

[Host 6] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 60

snrMin: 5.50492

berHeader: 5.36758e-09 berMPDU: 1.98603e-17

packet was received correctly, it is now handed to upper layer...

host[6]::PhyLayer: Decapsulating MacPacket from Airframe with ID 60 and sending it up to MAC.

host[6]::PhyLayer: End of Airframe with ID 60.

\*\* Event #1840 T=3.841436554689 sim.host[6].nic.mac (Mac80211, id=68), on `wlan-cts' (Mac80211Pkt, id=1074)

handleLowerMsg frame (Mac80211Pkt)wlan-cts received

updated information for neighbor: 51 snr: 5.50492 bitrate: 1.8e+07

handle msg not for me wlan-cts

cannot beginNewCycle until NAV expires at t 3.841760554688

\*\* Event #1841 T=3.841436554689 sim.host[7].nic.phy (PhyLayer, id=77), on selfmsg `{}' (AirFrame, id=1066)

[Host 7] - PhyLayer(Decider): Processing AirFrame...

[Host 7] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 60

snrMin: 0.291629

berHeader: 0.189144 berMPDU: 0.0911645

Packet has BIT ERRORS! It is lost!

packet was not received correctly, sending it as control message to upper layer

host[7]::PhyLayer: End of Airframe with ID 60.

\*\* Event #1842 T=3.841436554689 sim.host[7].nic.mac (Mac80211, id=76), on `ERROR' (Mac80211Pkt, id=1075)

3.841436554689 handleLowerControl ERROR

handle msg not for me ERROR

cannot beginNewCycle until NAV expires at t 3.841760554688

\*\* Event #1843 T=3.841436554689 sim.host[8].nic.phy (PhyLayer, id=85), on selfmsg `{}' (AirFrame, id=1067)

[Host 8] - PhyLayer(Decider): Processing AirFrame...

[Host 8] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 60

snrMin: 0.283984

berHeader: 0.194027 berMPDU: 0.0968798

Packet has BIT ERRORS! It is lost!

packet was not received correctly, sending it as control message to upper layer

host[8]::PhyLayer: End of Airframe with ID 60.

\*\* Event #1844 T=3.841436554689 sim.host[8].nic.mac (Mac80211, id=84), on `ERROR' (Mac80211Pkt, id=1076)

3.841436554689 handleLowerControl ERROR

handle msg not for me ERROR

staying in state IDLE

\*\* Event #1845 T=3.841436554689 sim.host[9].nic.phy (PhyLayer, id=93), on selfmsg `{}' (AirFrame, id=1060)

[Host 9] - PhyLayer(Decider): Processing AirFrame...

[Host 9] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 60

snrMin: 0.273263

berHeader: 0.201085 berMPDU: 0.10554

Packet has BIT ERRORS! It is lost!

packet was not received correctly, sending it as control message to upper layer

host[9]::PhyLayer: End of Airframe with ID 60.

\*\* Event #1846 T=3.841436554689 sim.host[9].nic.mac (Mac80211, id=92), on `ERROR' (Mac80211Pkt, id=1059)

3.841436554689 handleLowerControl ERROR

handle msg not for me ERROR

staying in state IDLE

\*\* Event #1847 T=3.841446554689 sim.host[1].nic.phy (PhyLayer, id=29), on selfmsg `{end SIFS}' (ChannelSenseRequest, id=9)

**[Host 1] - PhyLayer(Decider): Creating RSSI map.**

**\*\* Event #1848 T=3.841446554689 sim.host[1].nic.mac (Mac80211, id=28), on `{end SIFS}' (ChannelSenseRequest, id=9)**

**3.841446554689 handleLowerControl end SIFS**

**Node 1 : sending DATA, waiting for ack**

**Mac80211::timeOut DATA 0.000314000999**

**sending DATA to 51 with bitrate 6e+06**

**state WFCTS --> WFACK**

\*\* Event #1849 T=3.841446554689 sim.host[1].nic.mac (Mac80211, id=28), on `{Radio switching over}' (cMessage, id=1077)

3.841446554689 handleLowerControl Radio switching over

\*\* Event #1850 T=3.841446554689 sim.host[1].nic.phy (PhyLayer, id=29), on `BROADCAST\_REPLY\_MESSAGE' (Mac80211Pkt, id=1078)

AirFrame encapsulated, length: 1520

host[1]::PhyLayer: sendToChannel: sending to gates

\*\* Event #1851 T=3.841446554689 sim.host[2].nic.phy (PhyLayer, id=37), on `{}' (AirFrame, id=1080)

host[2]::PhyLayer: Received new AirFrame with ID 61 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 18500

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.85028e-11

[Host 2] - PhyLayer(Decider): Processing AirFrame...

[Host 2] - PhyLayer(Decider): Signal is strong enough (3.14739e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[2]::PhyLayer: Handed AirFrame with ID 61 to Decider. Next handling in 0.000253333333s.

\*\* Event #1852 T=3.841446554689 sim.host[3].nic.phy (PhyLayer, id=45), on `{}' (AirFrame, id=1081)

host[3]::PhyLayer: Received new AirFrame with ID 61 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 25000

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.01321e-11

[Host 3] - PhyLayer(Decider): Processing AirFrame...

[Host 3] - PhyLayer(Decider): Signal is strong enough (1.72351e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[3]::PhyLayer: Handed AirFrame with ID 61 to Decider. Next handling in 0.000253333333s.

\*\* Event #1853 T=3.841446554689 sim.host[4].nic.phy (PhyLayer, id=53), on `{}' (AirFrame, id=1082)

host[4]::PhyLayer: Received new AirFrame with ID 61 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 14900

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 2.85238e-11

[Host 4] - PhyLayer(Decider): Processing AirFrame...

[Host 4] - PhyLayer(Decider): Signal is strong enough (4.85201e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[4]::PhyLayer: Handed AirFrame with ID 61 to Decider. Next handling in 0.000253333333s.

\*\* Event #1854 T=3.841446554689 sim.host[5].nic.phy (PhyLayer, id=61), on `{}' (AirFrame, id=1083)

host[5]::PhyLayer: Received new AirFrame with ID 61 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 51200

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 2.41569e-12

[Host 5] - PhyLayer(Decider): Processing AirFrame...

[Host 5] - PhyLayer(Decider): Signal is strong enough (4.10917e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[5]::PhyLayer: Handed AirFrame with ID 61 to Decider. Next handling in 0.000253333333s.

\*\* Event #1855 T=3.841446554689 sim.host[6].nic.phy (PhyLayer, id=69), on `{}' (AirFrame, id=1084)

host[6]::PhyLayer: Received new AirFrame with ID 61 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 19625

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.64422e-11

[Host 6] - PhyLayer(Decider): Processing AirFrame...

[Host 6] - PhyLayer(Decider): Signal is strong enough (2.79688e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[6]::PhyLayer: Handed AirFrame with ID 61 to Decider. Next handling in 0.000253333333s.

\*\* Event #1856 T=3.841446554689 sim.host[7].nic.phy (PhyLayer, id=77), on `{}' (AirFrame, id=1085)

host[7]::PhyLayer: Received new AirFrame with ID 61 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 16000

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 2.47366e-11

[Host 7] - PhyLayer(Decider): Processing AirFrame...

[Host 7] - PhyLayer(Decider): Signal is strong enough (4.20779e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[7]::PhyLayer: Handed AirFrame with ID 61 to Decider. Next handling in 0.000253333333s.

\*\* Event #1857 T=3.841446554689 sim.host[8].nic.phy (PhyLayer, id=85), on `{}' (AirFrame, id=1086)

host[8]::PhyLayer: Received new AirFrame with ID 61 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 57809

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.89491e-12

[Host 8] - PhyLayer(Decider): Processing AirFrame...

[Host 8] - PhyLayer(Decider): Signal is strong enough (3.22332e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[8]::PhyLayer: Handed AirFrame with ID 61 to Decider. Next handling in 0.000253333333s.

\*\* Event #1858 T=3.841446554689 sim.host[9].nic.phy (PhyLayer, id=93), on `{}' (AirFrame, id=1079)

host[9]::PhyLayer: Received new AirFrame with ID 61 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 39200

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 4.12105e-12

[Host 9] - PhyLayer(Decider): Processing AirFrame...

[Host 9] - PhyLayer(Decider): Signal is strong enough (7.01006e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[9]::PhyLayer: Handed AirFrame with ID 61 to Decider. Next handling in 0.000253333333s.

\*\* Event #1859 T=3.841699888022 sim.host[1].nic.phy (PhyLayer, id=29), on selfmsg `{transmission over}' (cMessage, id=53)

\*\* Event #1860 T=3.841699888022 sim.host[1].nic.mac (Mac80211, id=28), on `{Transmission over}' (cMessage, id=1087)

3.841699888022 handleLowerControl Transmission over

PHY indicated transmission over

transmission of packet is over

\*\* Event #1861 T=3.841699888022 sim.host[1].nic.mac (Mac80211, id=28), on `{Radio switching over}' (cMessage, id=1088)

3.841699888022 handleLowerControl Radio switching over

\*\* Event #1862 T=3.841699888022 sim.host[2].nic.phy (PhyLayer, id=37), on selfmsg `{}' (AirFrame, id=1080)

[Host 2] - PhyLayer(Decider): Processing AirFrame...

[Host 2] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 61

snrMin: 3.11888

berHeader: 1.52733e-05 berMPDU: 2.11603e-10

packet was received correctly, it is now handed to upper layer...

host[2]::PhyLayer: Decapsulating MacPacket from Airframe with ID 61 and sending it up to MAC.

host[2]::PhyLayer: End of Airframe with ID 61.

\*\* Event #1863 T=3.841699888022 sim.host[2].nic.mac (Mac80211, id=36), on `BROADCAST\_REPLY\_MESSAGE' (Mac80211Pkt, id=1089)

handleLowerMsg frame (Mac80211Pkt)BROADCAST\_REPLY\_MESSAGE received

updated information for neighbor: 27 snr: 3.11888 bitrate: 1.2e+07

handle msg not for me BROADCAST\_REPLY\_MESSAGE

cannot beginNewCycle until NAV expires at t 3.841760554688

\*\* Event #1864 T=3.841699888022 sim.host[3].nic.phy (PhyLayer, id=45), on selfmsg `{}' (AirFrame, id=1081)

[Host 3] - PhyLayer(Decider): Processing AirFrame...

[Host 3] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 61

snrMin: 1.7079

berHeader: 0.00168475 berMPDU: 3.42015e-06

packet was received correctly, it is now handed to upper layer...

host[3]::PhyLayer: Decapsulating MacPacket from Airframe with ID 61 and sending it up to MAC.

host[3]::PhyLayer: End of Airframe with ID 61.

\*\* Event #1865 T=3.841699888022 sim.host[3].nic.mac (Mac80211, id=44), on `BROADCAST\_REPLY\_MESSAGE' (Mac80211Pkt, id=1090)

handleLowerMsg frame (Mac80211Pkt)BROADCAST\_REPLY\_MESSAGE received

updated information for neighbor: 27 snr: 1.7079 bitrate: 9e+06

handle msg not for me BROADCAST\_REPLY\_MESSAGE

cannot beginNewCycle until NAV expires at t 3.841760554688

\*\* Event #1866 T=3.841699888022 sim.host[4].nic.phy (PhyLayer, id=53), on selfmsg `{}' (AirFrame, id=1082)

[Host 4] - PhyLayer(Decider): Processing AirFrame...

[Host 4] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 61

snrMin: 4.80805

**Node 4 : receiving DATA**

berHeader: 5.47776e-08 berMPDU: 2.20915e-15

packet was received correctly, it is now handed to upper layer...

host[4]::PhyLayer: Decapsulating MacPacket from Airframe with ID 61 and sending it up to MAC.

host[4]::PhyLayer: End of Airframe with ID 61.

\*\* Event #1867 T=3.841699888022 sim.host[4].nic.mac (Mac80211, id=52), on `BROADCAST\_REPLY\_MESSAGE' (Mac80211Pkt, id=1091)

handleLowerMsg frame (Mac80211Pkt)BROADCAST\_REPLY\_MESSAGE received

updated information for neighbor: 27 snr: 4.80805 bitrate: 1.8e+07

handle msg for me BROADCAST\_REPLY\_MESSAGE in WFDATA

message decapsulated

\*\* Event #1868 T=3.841699888022 sim.host[4].net (BaseNetwLayer, id=50), on `BROADCAST\_REPLY\_MESSAGE' (NetwPkt, id=1092)

handling packet from 26

\*\* Event #1869 T=3.841699888022 sim.host[4].nic.phy (PhyLayer, id=53), on `{end SIFS}' (ChannelSenseRequest, id=24)

\*\* Event #1870 T=3.841699888022 sim.host[4].appl (BurstApplLayer, id=48), on `BROADCAST\_REPLY\_MESSAGE' (ApplPkt, id=1093)

Received reply from host[1]; delete msg

\*\* Event #1871 T=3.841699888022 sim.host[5].nic.phy (PhyLayer, id=61), on selfmsg `{}' (AirFrame, id=1083)

[Host 5] - PhyLayer(Decider): Processing AirFrame...

[Host 5] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 61

snrMin: 0.407194

berHeader: 0.128676 berMPDU: 0.0371289

Packet has BIT ERRORS! It is lost!

packet was not received correctly, sending it as control message to upper layer

host[5]::PhyLayer: End of Airframe with ID 61.

\*\* Event #1872 T=3.841699888022 sim.host[5].nic.mac (Mac80211, id=60), on `ERROR' (Mac80211Pkt, id=1094)

3.841699888022 handleLowerControl ERROR

handle msg not for me ERROR

staying in state IDLE

\*\* Event #1873 T=3.841699888022 sim.host[6].nic.phy (PhyLayer, id=69), on selfmsg `{}' (AirFrame, id=1084)

[Host 6] - PhyLayer(Decider): Processing AirFrame...

[Host 6] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 61

snrMin: 2.77155

berHeader: 4.86121e-05 berMPDU: 2.26784e-09

packet was received correctly, it is now handed to upper layer...

host[6]::PhyLayer: Decapsulating MacPacket from Airframe with ID 61 and sending it up to MAC.

host[6]::PhyLayer: End of Airframe with ID 61.

\*\* Event #1874 T=3.841699888022 sim.host[6].nic.mac (Mac80211, id=68), on `BROADCAST\_REPLY\_MESSAGE' (Mac80211Pkt, id=1095)

handleLowerMsg frame (Mac80211Pkt)BROADCAST\_REPLY\_MESSAGE received

updated information for neighbor: 27 snr: 2.77155 bitrate: 1.2e+07

handle msg not for me BROADCAST\_REPLY\_MESSAGE

cannot beginNewCycle until NAV expires at t 3.841760554688

\*\* Event #1875 T=3.841699888022 sim.host[7].nic.phy (PhyLayer, id=77), on selfmsg `{}' (AirFrame, id=1085)

[Host 7] - PhyLayer(Decider): Processing AirFrame...

[Host 7] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 61

snrMin: 4.16967

berHeader: 4.59997e-07 berMPDU: 1.66918e-13

packet was received correctly, it is now handed to upper layer...

host[7]::PhyLayer: Decapsulating MacPacket from Airframe with ID 61 and sending it up to MAC.

host[7]::PhyLayer: End of Airframe with ID 61.

\*\* Event #1876 T=3.841699888022 sim.host[7].nic.mac (Mac80211, id=76), on `BROADCAST\_REPLY\_MESSAGE' (Mac80211Pkt, id=1096)

handleLowerMsg frame (Mac80211Pkt)BROADCAST\_REPLY\_MESSAGE received

updated information for neighbor: 27 snr: 4.16967 bitrate: 1.8e+07

handle msg not for me BROADCAST\_REPLY\_MESSAGE

cannot beginNewCycle until NAV expires at t 3.841760554688

\*\* Event #1877 T=3.841699888022 sim.host[8].nic.phy (PhyLayer, id=85), on selfmsg `{}' (AirFrame, id=1086)

[Host 8] - PhyLayer(Decider): Processing AirFrame...

[Host 8] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 61

snrMin: 0.319412

berHeader: 0.172415 berMPDU: 0.0732131

Packet has BIT ERRORS! It is lost!

packet was not received correctly, sending it as control message to upper layer

host[8]::PhyLayer: End of Airframe with ID 61.

\*\* Event #1878 T=3.841699888022 sim.host[8].nic.mac (Mac80211, id=84), on `ERROR' (Mac80211Pkt, id=1097)

3.841699888022 handleLowerControl ERROR

handle msg not for me ERROR

staying in state IDLE

\*\* Event #1879 T=3.841699888022 sim.host[9].nic.phy (PhyLayer, id=93), on selfmsg `{}' (AirFrame, id=1079)

[Host 9] - PhyLayer(Decider): Processing AirFrame...

[Host 9] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 61

snrMin: 0.694655

berHeader: 0.0493575 berMPDU: 0.00438653

Packet has BIT ERRORS! It is lost!

packet was not received correctly, sending it as control message to upper layer

host[9]::PhyLayer: End of Airframe with ID 61.

\*\* Event #1880 T=3.841699888022 sim.host[9].nic.mac (Mac80211, id=92), on `ERROR' (Mac80211Pkt, id=1078)

3.841699888022 handleLowerControl ERROR

handle msg not for me ERROR

staying in state IDLE

**\*\* Event #1881 T=3.841709888022 sim.host[4].nic.phy (PhyLayer, id=53), on selfmsg `{end SIFS}' (ChannelSenseRequest, id=24)**

**[Host 4] - PhyLayer(Decider): Creating RSSI map.**

**\*\* Event #1882 T=3.841709888022 sim.host[4].nic.mac (Mac80211, id=52), on `{end SIFS}' (ChannelSenseRequest, id=24)**

**3.841709888022 handleLowerControl end SIFS**

**Node 4 : sending ACK**

**sent ACK frame!**

**state WFDATA --> BUSY**

**\*\* Event #1883 T=3.841709888022 sim.host[4].nic.mac (Mac80211, id=52), on `{Radio switching over}' (cMessage, id=1098)**

**3.841709888022 handleLowerControl Radio switching over**

**\*\* Event #1884 T=3.841709888022 sim.host[4].nic.phy (PhyLayer, id=53), on `wlan-ack' (Mac80211Pkt, id=1099)**

**AirFrame encapsulated, length: 304**

**host[4]::PhyLayer: sendToChannel: sending to gates**

\*\* Event #1885 T=3.841709888022 sim.host[1].nic.phy (PhyLayer, id=29), on `{}' (AirFrame, id=1101)

host[1]::PhyLayer: Received new AirFrame with ID 62 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 14900

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 2.85238e-11

[Host 1] - PhyLayer(Decider): Processing AirFrame...

[Host 1] - PhyLayer(Decider): Signal is strong enough (4.85201e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[1]::PhyLayer: Handed AirFrame with ID 62 to Decider. Next handling in 0.000050666666s.

\*\* Event #1886 T=3.841709888022 sim.host[0].nic.phy (PhyLayer, id=21), on `{}' (AirFrame, id=1102)

host[0]::PhyLayer: Received new AirFrame with ID 62 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 36325

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 4.7992e-12

[Host 0] - PhyLayer(Decider): Processing AirFrame...

[Host 0] - PhyLayer(Decider): Signal is strong enough (8.16362e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[0]::PhyLayer: Handed AirFrame with ID 62 to Decider. Next handling in 0.000050666666s.

\*\* Event #1887 T=3.841709888022 sim.host[2].nic.phy (PhyLayer, id=37), on `{}' (AirFrame, id=1103)

host[2]::PhyLayer: Received new AirFrame with ID 62 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 43600

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 3.33125e-12

[Host 2] - PhyLayer(Decider): Processing AirFrame...

[Host 2] - PhyLayer(Decider): Signal is strong enough (5.66658e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[2]::PhyLayer: Handed AirFrame with ID 62 to Decider. Next handling in 0.000050666666s.

\*\* Event #1888 T=3.841709888022 sim.host[3].nic.phy (PhyLayer, id=45), on `{}' (AirFrame, id=1104)

host[3]::PhyLayer: Received new AirFrame with ID 62 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 26500

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 9.01755e-12

[Host 3] - PhyLayer(Decider): Processing AirFrame...

[Host 3] - PhyLayer(Decider): Signal is strong enough (1.53392e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[3]::PhyLayer: Handed AirFrame with ID 62 to Decider. Next handling in 0.000050666666s.

\*\* Event #1889 T=3.841709888022 sim.host[6].nic.phy (PhyLayer, id=69), on `{}' (AirFrame, id=1105)

host[6]::PhyLayer: Received new AirFrame with ID 62 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 13925

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 3.2658e-11

[Host 6] - PhyLayer(Decider): Processing AirFrame...

[Host 6] - PhyLayer(Decider): Signal is strong enough (5.55525e-11 > 1.12202e-12) -> Trying to receive AirFrame.

host[6]::PhyLayer: Handed AirFrame with ID 62 to Decider. Next handling in 0.000050666666s.

\*\* Event #1890 T=3.841709888022 sim.host[7].nic.phy (PhyLayer, id=77), on `{}' (AirFrame, id=1106)

host[7]::PhyLayer: Received new AirFrame with ID 62 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 60500

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.73009e-12

[Host 7] - PhyLayer(Decider): Processing AirFrame...

[Host 7] - PhyLayer(Decider): Signal is strong enough (2.94295e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[7]::PhyLayer: Handed AirFrame with ID 62 to Decider. Next handling in 0.000050666666s.

\*\* Event #1891 T=3.841709888022 sim.host[8].nic.phy (PhyLayer, id=85), on `{}' (AirFrame, id=1107)

host[8]::PhyLayer: Received new AirFrame with ID 62 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 61309

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.68474e-12

[Host 8] - PhyLayer(Decider): Processing AirFrame...

[Host 8] - PhyLayer(Decider): Signal is strong enough (2.8658e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[8]::PhyLayer: Handed AirFrame with ID 62 to Decider. Next handling in 0.000050666666s.

\*\* Event #1892 T=3.841709888022 sim.host[9].nic.phy (PhyLayer, id=93), on `{}' (AirFrame, id=1100)

host[9]::PhyLayer: Received new AirFrame with ID 62 from channel

PhyLayer(SimplePathlossModel): sqrdistance is: 62500

PhyLayer(SimplePathlossModel): wavelength is: 0.124292

PhyLayer(SimplePathlossModel): distance factor is: 1.62114e-12

[Host 9] - PhyLayer(Decider): Processing AirFrame...

[Host 9] - PhyLayer(Decider): Signal is strong enough (2.75762e-12 > 1.12202e-12) -> Trying to receive AirFrame.

host[9]::PhyLayer: Handed AirFrame with ID 62 to Decider. Next handling in 0.000050666666s.

\*\* Event #1893 T=3.841760554688 sim.host[2].nic.mac (Mac80211, id=36), on selfmsg `NAV' (cMessage, id=12)

3.841760554688 handleSelfMsg NAV

state QUIET --> IDLE

\*\* Event #1894 T=3.841760554688 sim.host[3].nic.mac (Mac80211, id=44), on selfmsg `NAV' (cMessage, id=17)

3.841760554688 handleSelfMsg NAV

state QUIET --> IDLE

\*\* Event #1895 T=3.841760554688 sim.host[6].nic.mac (Mac80211, id=68), on selfmsg `NAV' (cMessage, id=32)

3.841760554688 handleSelfMsg NAV

state QUIET --> IDLE

\*\* Event #1896 T=3.841760554688 sim.host[7].nic.mac (Mac80211, id=76), on selfmsg `NAV' (cMessage, id=37)

3.841760554688 handleSelfMsg NAV

state QUIET --> IDLE

\*\* Event #1897 T=3.841760554688 sim.host[4].nic.phy (PhyLayer, id=53), on selfmsg `{transmission over}' (cMessage, id=59)

\*\* Event #1898 T=3.841760554688 sim.host[4].nic.mac (Mac80211, id=52), on `{Transmission over}' (cMessage, id=1108)

3.841760554688 handleLowerControl Transmission over

PHY indicated transmission over

transmission of packet is over

3.841760554688 random backoff = 0.000009

[Host 4] - PhyLayer(Decider): Creating RSSI map.

3.841760554688 do contention: medium = [idle with rssi of 1e-11], backoff = 0.000009

state BUSY --> IDLE

\*\* Event #1899 T=3.841760554688 sim.host[4].nic.mac (Mac80211, id=52), on `{Radio switching over}' (cMessage, id=1109)

3.841760554688 handleLowerControl Radio switching over

\*\* Event #1900 T=3.841760554688 sim.host[4].nic.phy (PhyLayer, id=53), on `contention' (ChannelSenseRequest, id=23)

\*\* Event #1901 T=3.841760554688 sim.host[1].nic.phy (PhyLayer, id=29), on selfmsg `{}' (AirFrame, id=1101)

**[Host 1] - PhyLayer(Decider): Processing AirFrame...**

**[Host 1] - PhyLayer(Decider): Creating RSSI map excluding AirFrame with id 62**

**snrMin: 4.80805**

**Node 1 : received ACK, random backoff**

**berHeader: 5.47776e-08 berMPDU: 2.20915e-15**

**packet was received correctly, it is now handed to upper layer...**

**host[1]::PhyLayer: Decapsulating MacPacket from Airframe with ID 62 and sending it up to MAC.**

**host[1]::PhyLayer: End of Airframe with ID 62.**

**\*\* Event #1902 T=3.841760554688 sim.host[1].nic.mac (Mac80211, id=28), on `wlan-ack' (Mac80211Pkt, id=1110)**

**handleLowerMsg frame (Mac80211Pkt)wlan-ack received**

**updated information for neighbor: 51 snr: 4.80805 bitrate: 1.8e+07**

**handle msg for me wlan-ack in WFACK**

**3.841760554688 random backoff = 0.000126**

**[Host 1] - PhyLayer(Decider): Creating RSSI map.**

**3.841760554688 do contention: medium = [idle with rssi of 1e-11], backoff = 0.000126**

**state WFACK --> IDLE**