DSSSPhy.c

NETSIM\_ID in = fn\_NetSim\_Stack\_GetConnectedInterface(nDeviceId, nInterfaceId, nReceiverId);

double power=GET\_RX\_POWER\_dbm(nDeviceId, nInterfaceId, nReceiverId, in, time);

**fprintf(stderr, "\n Rx Power = %lf \n", power);**

int i;

for(i=MAX\_RATE\_INDEX;i>=MIN\_RATE\_INDEX;i--)

{

if(power >= struPhyParameters[i].dRxSensitivity || i==MIN\_RATE\_INDEX)

{

pstruPhy->PHY\_TYPE.dsssPhy.dDataRate = struPhyParameters[i].dDataRate;

pstruPhy->dCurrentRxSensitivity\_dbm = struPhyParameters[i].dRxSensitivity;

pstruPhy->PHY\_TYPE.dsssPhy.modulation = struPhyParameters[i].nModulation;

pstruPhy->PHY\_TYPE.dsssPhy.dsssrate = struPhyParameters[i].dsssRate;

pstruPhy->PHY\_TYPE.dsssPhy.dProcessingGain = struPhyParameters[i].processingGain;

break;

}

}

**fprintf(stderr, "\n.................Data Rate = %lf\n", struPhyParameters[i].dDataRate);**

**fprintf(stderr, "\n.................Sensitivity = %lf\n", struPhyParameters[i].dRxSensitivity);**

}

}

else // Broadcast packets

HTPhy.c

NETSIM\_ID in = fn\_NetSim\_Stack\_GetConnectedInterface(nDeviceId, nInterfaceId, nReceiverId);

double power = GET\_RX\_POWER\_dbm(nDeviceId, nInterfaceId, nReceiverId, in, time);

**fprintf(stderr, "\n Rx Power = %lf \n", power);**

int i;

for(i=get\_max\_index(pstruPhy);i>=MIN\_RATE\_INDEX;i--)

{

if(struPhyParameters[i].dDataRate<=0)

continue; //Invalid

if(power >= struPhyParameters[i].dRxSensitivity || i==MIN\_RATE\_INDEX)

{

pstruPhy->PHY\_TYPE.ofdmPhy\_11n.dDataRate = struPhyParameters[i].dDataRate;

pstruPhy->dCurrentRxSensitivity\_dbm = struPhyParameters[i].dRxSensitivity;

pstruPhy->PHY\_TYPE.ofdmPhy\_11n.modulation = struPhyParameters[i].nModulation;

pstruPhy->PHY\_TYPE.ofdmPhy\_11n.coding = struPhyParameters[i].nCodingRate;

pstruPhy->PHY\_TYPE.ofdmPhy\_11n.nNBPSC = struPhyParameters[i].nNBPSC;

mcs = struPhyParameters[i].MCS;

pstruPhy->dControlFrameDataRate = struPhyParameters[MIN\_RATE\_INDEX].dDataRate;

break;

}

}

**fprintf(stderr, "\n.................Data Rate = %lf\n", struPhyParameters[i].dDataRate, struPhyParameters[i].dRxSensitivity);**

**fprintf(stderr, "\n.................Sensitivity = %lf\n", struPhyParameters[i].dRxSensitivity);**

}

}

else // Broadcast packets

{