

1. Physical Layer Management

This section describes the attribute definitions and templates of PHY layer management. This includes both the PHY-dependent and the PHY-independent portions of the PHY-layer Management Information Base. Not all attributes in the following section are supported by every PHY. Each PHY contains a Managed Object list which defines the PHY-specific values required for each PHY implementation.

1.1 PHY Management Information Base

1.1.1 Phy Attributes

1.1.1.1 agPhyOperation_grp

aPHY_Type,
aReg_Domains_Suprt,
aCurrent_Reg_Domain,
aSlot_time,
aCCA_Asmnt_Time,
aRxTx_Turnaround_Time,
aTx_PLCP_Delay,
aRxTx_Switch_Time,
aTxRamp_On_time,
aTx_RF_Delay,
aSIFS_Time,
aRx_RF_Delay,
aRx_PLCP_Delay,
aMAC_Prc_Delay,
aTxRamp_Off_Time,
aPreamble_Lngth,
aPLCP_Hdr_Lngth,
aMPDU_Duration_Factor,
aAir_Propagation_Time,
aTemp_Type;

1.1.1.2 agPhyRate_grp

aSuprt_Data_Rates_Tx,
aSuprt_Data_Rates_Rx;
aMPDU_Max_Lngth,

aPref_Max_MPDU_Frgmnt_Lngth

1.1.1.3 agPhyAntenna_grp

aSuprt_Tx_Antennas,
aCurrent_Tx_Antenna,
aSuprt_Rx_Antennas,
aDiversity_Suprt,
aDiversity_Slct_Rx;

1.1.1.4 agPhyTxPwr_grp

aNbr_Suprtd_Pwr_Lvls,
aTx_Pwr_Lvl1,
aTx_Pwr_Lvl2,
aTx_Pwr_Lvl3,
aTx_Pwr_Lvl4,
aTx_Pwr_Lvl5,
aTx_Pwr_Lvl6,
aTx_Pwr_Lvl7,
aTx_Pwr_Lvl8,
aCurrent_Tx_PwrLvl;

1.1.1.5 agPhyFHSS_grp

aHop_Time,
aCurrent_Channel_Nbr,
aMax_Dwell_Time,
aCurrent_Dwell_Time,
aCurrent_Set,
aCurrent_Pattern,
aCurrent_Index;

1.1.1.6 agPhyDSSS_grp

aCurrent_Channel,
aCCA_Mode_Suprt,
aCurrent_CCA_Mode,
aED_Threshold;

1.1.1.7 agPhyStatus_grp

aSynthesizer_Locked;

1.1.1.8 agPhyPwrSaving_grp

aCurrent_Pwr_State,
~~aSleep_Turnon_Time,~~
aDoze_Turnon_Time;

1.1.1.9 Not Grouped

1.1.2 PHY Object Class

PHY MANAGED OBJECT CLASS

DERIVED FROM "ISO/IEC 10165-2":top;

CHARACTERIZED BY

pPHY_base PACKAGE
 BEHAVIOR

bPHY_base BEHAVIOR

DEFINED AS "The PHY object class provides the necessary support for all the required PHY operational information which may vary from PHY to PHY and from STA to STA to be communicated to upper layers."

ATTRIBUTES

aPHY_Type	GET,
aReg_Domains_Suprt	GET,
aCurrent_Reg_Domain	GET-REPLACE,
aSlot_Time	GET,
aCCA_Asmnt_Time	GET,
aRxTx_Turnaround_Time	GET,
aTx_PLCP_Delay	GET,
aRxTx_Switch_Time	GET,
aTxRamp_On_Time	GET,
aTx_RF_Delay	GET,
aSIFS_Time	GET,
aRx_RF_Delay	GET,
aRx_PLCP_Delay	GET,
aMAC_Prc_Delay	GET,
aTxRamp_Off_Time	GET,
aPreamble_Lngth	GET,
aPLCP_Hdr_Lngth	GET,
aMPDU_Duration_Factor,	GET,
aSuprt_Data_Rates_Tx	GET,
aSuprt_Data_Rates_Rx	GET,
aMPDU_Max_Lngth	GET,
aPref_Max_MPDU_Frgmnt_Lngth	GET,
aSuprt_Tx_Antennas	GET,
aCurrent_Tx_Antenna	GET-REPLACE,
aSuprt_Rx_Antennas	GET,
aDiversity_Suprt	GET,
aDiversity_Slct_Rx	GET-REPLACE,
aNbr_Suprt_Pwr_Lvls	GET,
aTx_Pwr_Lvl1	GET,
aTx_Pwr_Lvl2	GET,
aTx_Pwr_Lvl3	GET,
aTx_Pwr_Lvl4	GET,
aTx_Pwr_Lvl5	GET,
aTx_Pwr_Lvl6	GET,
aTx_Pwr_Lvl7	GET,
aTx_Pwr_Lvl8	GET,
aCurrent_Tx_PwrLvl	GET-REPLACE,
aHop_Time	GET,

aCurrent_Channel_Nbr	GET-REPLACE,
aMax_Dwell_Time	GET,
aCurrent_Dwell_Time	GET-REPLACE,
aCurrent_Set	GET-REPLACE,
aCurrent_Pattern	GET-REPLACE,
aCurrent_Index	GET-REPLACE,
aCurrent_Channel	GET-REPLACE,
aCCA_Mode_Suprt	GET,
aCurrent_CCA_Mode	GET-REPLACE,
aED_Threshold	GET-REPLACE,
aCurrent_Pwr_State	GET-REPLACE,
aSleep_Turnon_Time	GET,
aDoze_Turnon_Time	GET,
aSynthesizer_Locked	GET;
ATTRIBUTE GROUPS	
agPhyOperation_grp,	
agPhyRate_grp,	
agPhyAntenna_grp,	
agPhyTxPwr_grp,	
agPhyFHSS_grp,	
agPhyDSSS_grp,	
agPhyPwrSaving_grp	
ACTIONS	
acPHY_reset;	
NOTIFICATIONS	

REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) };

1.1.3 PHY Attribute Group Templates

1.1.3.1 agPhyOperation_grp

PhyOperation_grp ATTRIBUTE GROUP
GROUP ELEMENTS

aPHY_Type,
aReg_Domains_Suprt,
aCurrent_Reg_Domain,
aSlot_time,
aCCA_Asmnt_Time,
aRxTx_Turnaround_Time,
aTx_PLCP_Delay,
aRxTx_Switch_Time,
aTxRamp_On_time,
aTx_RF_Delay,
aSIFS_Time,
aRx_RF_Delay,
aRx_PLCP_Delay,
aMAC_Prc_Delay,
aTxRamp_Off_Time,
aPreamble_Lngth,
aPLCP_Hdr_Lngth,
aMPDU_Duration_Factor,
aAir_Propagation_Time,

aTemp_Type;

REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) PhyOperation_grp(0) };

1.1.3.2 agPhyRate_grp

PhyRate_grp ATTRIBUTE GROUP

GROUP ELEMENTS

aSuprt_Data_Rates_Tx,
aSuprt_Data_Rates_Rx,
aMPDU_Max_Lngth,

aPref_Max_MPDU_Frgmnt_Lngth

REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) PhyRate_grp(1) };

1.1.3.3 agPhyAntenna_grp

PhyAntenna_grp ATTRIBUTE GROUP

GROUP ELEMENTS

aSuprt_Tx_Antennas,
aCurrent_Tx_Antenna,
aSuprt_Rx_Antennas,
aDiversity_Suprt,
aDiversity_Slct_Rx;

REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) PhyAntenna_grp(2) };

1.1.3.4 agPhyTxPwr_grp

PhyTxPwr_grp ATTRIBUTE GROUP

GROUP ELEMENTS

aNbr_Suprtd_Pwr_Lvls,
aTx_Pwr_Lvl1,
aTx_Pwr_Lvl2,
aTx_Pwr_Lvl3,
aTx_Pwr_Lvl4,
aTx_Pwr_Lvl5,
aTx_Pwr_Lvl6,
aTx_Pwr_Lvl7,
aTx_Pwr_Lvl8,
aCurrent_Tx_PwrLvl;

REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) PhyTxPwr_grp(3) };

1.1.3.5 agPhyFHSS_grp

PhyFHSS_grp ATTRIBUTE GROUP

GROUP ELEMENTS

aHop_Time,
aCurrent_Channel_Nbr,
aMax_Dwell_Time,
aCurrent_Dwell_Time,

aCurrent_Set,
aCurrent_Pattern,
aCurrent_Index;
REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) PhyFHSS_grp(14) };

1.1.3.6 agPhyDSSS_grp

PhyStatus_grp ATTRIBUTE GROUP
GROUP ELEMENTS
aCurrent_Channel,
aCCA_Mode_Suprt,
aCurrent_CCA_Mode,
aED_Threshold;
REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) PhyDSSS_grp(5) };

1.1.3.7 agPhyStatus_grp

PhyStatus_grp ATTRIBUTE GROUP
GROUP ELEMENTS
;
aSynthesizer_Locked;
REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) PhyStatus_grp(6) };

1.1.3.8 agPhyPwrSaving_grp

PhyStatus_grp ATTRIBUTE GROUP
GROUP ELEMENTS
aCurrent_Pwr_State,
aSleep_Turnon_Time,
aDoze_Turnon_Time;
REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) PhyPwrSaving_grp(7) };

1.1.4 PHY Attribute Templates

1.1.4.1 aPHY_Type

PHY_Type ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;
BEHAVIOR DEFINED AS
"This is a 8 bit integer value which identifies the PHY Type supported by the attached PLCP and PMD"
FHSS 2.4GHz = 01 , DSSS 2.4GHz = 02, IR Baseband = 03";
REGISTERED AS
{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) PHY_Type(10) };

1.1.4.2 aReg_Domains_Suprt

Reg_Domains_Suprt ATTRIBUTE
WITH APPROPRIATE SYNTAX

Null Terminated list of byte integers;

BEHAVIOR DEFINED AS

"There are different operational requirements dependent on the regulatory domain. This attribute list describes the regulatory domains the PLCP and PMD support in this implementation. Each integer is an 8 bit value as defined below:

FCC = 10, DOC = 20, ETSI = 30, MKK = 40";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Reg_Domains_Suprt(24) };

1.1.4.3 aCurrent_Reg_Domain

Current_Reg_Domain ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"This octet defines the current regulatory domain this implementation of the PMD is supporting. This octet corresponds to one of the Reg_Domains list in the Reg_Domains_Suprt attribute list";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Current_Reg_Domain(32) };

1.1.4.4 aSlot_Time

Slot_Time ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The time in microseconds the MAC will use for defining the PIFS and DIFS periods. The Slot_Time is defined as a function of the following the equation:

$CCA_Asmnt_Time + RxTx_Turnaround_Time + Air_Propagation_Time + aMAC_Prc_Delay.$
Air_Propagation_Time is defined as 1 usec.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Slot_Time(23) };

1.1.4.5 aCCA_Asmnt_Time

CCA_Asmnt_Time ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The minimum time in microseconds the CCA mechanism has available to assess the media within every slot to determine whether the media is clear or busy";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) CCA_Asmnt_Time(54) };

1.1.4.6 aRxTx_Turnaround_Time

RxTx_Turnaround_Time ATTRIBUTE

WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The maximum time in microseconds the PHY requires to change from receive to transmitting the start of the first symbol out on the air. The following equation is used to derive the RxTx_Turnaround_Time: $aTx_PLCP_Delay + aRxTx_Switch_Time + aTxRamp_On_Time + aTx_RF_Delay$.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) RxTx_Turnaround_Time(~~65~~) };

1.1.4.7 aTx_PLCP_Delay

Tx_PLCP_Delay ATTRIBUTE

WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The nominal time in microseconds the PLCP uses to deliver a symbol from the MAC interface to the transmit data path of the PMD";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Tx_PLCP_Delay(~~76~~) };

1.1.4.8 aRxTx_Switch_Time

RxTx_Switch_Time ATTRIBUTE

WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The nominal time in microseconds the PMD takes to switch from Receive to Transmit";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) RxTx_Switch_Time(~~87~~) };

1.1.4.9 aTxRamp_On_Time

TxRamp_On_Time ATTRIBUTE

WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The maximum time in microseconds the PMD takes to turn the Transmitter on";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) TxRamp_On_Time(~~98~~) };

1.1.4.10 aTx_RF_Delay

Tx_RF_Delay WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The nominal time in micronanoseconds the PMD uses to transfer a symbol through the Transmit path of the PMD";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Tx_RF_Delay(109) };

1.1.4.11 aSIFS_Time

SIFS_Time ATTRIBUTE

WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The time in microseconds the MAC and PHY will require to receive the last symbol of a frame at the air interface, process the frame and response with the first symbol on the air interface of the earliest possible response. The following equation is used to determine the SIFS_Time:

$$aRx_RF_Delay + aRx_PLCP_Delay + aMAC_Prc_Delay + aRxTx_Turnaround_Time";$$

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) SIFS_Time(110) };

1.1.4.12 aRx_RF_Delay

Rx_RF_Delay ATTRIBUTE

WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The nominal time in nanoseconds the PMD uses to deliver a symbol from the antenna to the PLCP.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Rx_RF_Delay(121) };

1.1.4.13 aRx_PLCP_Delay

Rx_PLCP_Delay ATTRIBUTE

WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The nominal time in nanoseconds the PLCP uses to deliver a bit from the PMD receive path to the MAC";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Rx_PLCP_Delay(132) };

1.1.4.14 aMAC_Prc_Time

MAC_Prc_Time ATTRIBUTE

WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The nominal time in microseconds the MAC uses to process a frame and prepare a response to the frame";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) MAC_Prc_Delay(143) };

1.1.4.15 aTxRamp_Off_Time

TxRamp_Off_Time ATTRIBUTE

WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The time in nanoseconds the PMD takes to turn the Transmit PA off";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) TxRamp_Off_Time(154) };

1.1.4.16 aPreamble_Length

Preamble_Length ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"This is an indication of the current PHY's Preamble Length in bits. ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Preamble_Lngth (165) };

1.1.4.17 aPLCP_Hdr_Lngth

PLCP_Header_Lngth ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"This is an indication of the current PHY's PLCP Header Length in bits. ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) PLCP_Hdr_Lngth (176) };

1.1.4.18 aMPDU_Duration_Factor

MPDU_Duration_Factor ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The parameter aMPDU_Duration_Factor defines the overhead added by the PHY to the MPDU as it is transmitted over the air. ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) MPDU_Duration_Factor(187) };

1.1.4.19 aAir_Propagation_Time

Air_Propagation_Time ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The parameter aAir_Propagation_Time is the time it takes a transmitted signal to go from the transmitting station to the receiving station.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Air_Propagation_Time(198) };

1.1.4.20 aTemp_Type

Temp_Type ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"This is an indication of the current PHY's operating temperature range capability. ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Temp_Type (2019) };

1.1.4.21 aSuprt_Data_Rates

Suprt_Data_Rates ATTRIBUTE
WITH APPROPRIATE SYNTAX

Null Terminated list of byte integers;

BEHAVIOR DEFINED AS

"The bit rates supported by the PLCP and PMD. The following list defines the supported data rates:

1M bps = 01, 2M bps = 02";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Suprt_Data_Rates (21~~0~~) };

1.1.4.22 aMPDU_Max_Lngth

MPDU_Max_Lngth ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The maximum number of octets in a MPDU that can be load into the PLCP_PDU when transmitting ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) MPDU_Max_Lngth (22~~+~~) };

1.1.4.23 aPref_Max_MPDU_Frgmnt_Lngth

Pref_Max_MPDU_Frgmnt_Lngth ATTRIBUTE
WITH APPROPRIATE SYNTAX

~~Null Terminated list of byte integers;~~

BEHAVIOR DEFINED AS

"The aPref_Max_MPDU_Frgmnt_Lngth managed object is the recommended maximum fragment length in octets.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Pref_Max_MPDU_Frgmnt_Lngth (22) };

1.1.4.24 aSuprt_Tx_Antennas

Suprt_Tx_Antennas ATTRIBUTE
WITH APPROPRIATE SYNTAX

Null terminated list of integers;

BEHAVIOR DEFINED AS

"This attribute represent a list of one or more antennas which can be used as the transmit antenna. Each antenna is define as an integer starting with antenna 1 to antenna N where N is < or = 255";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Suprt_Tx_Antennas (24~~3~~) };

1.1.4.25 aCurrent_Tx_Antenna

Current_Tx_Antenna ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The current antenna being used to transmit. This value is one of the attributes appearing in the list defined as the Suprt_Tx_Antennas.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) MPDU_Max_Lngth_1M (25~~4~~) };

1.1.4.26 aSuprt_Rx_Antennas

Suprt_Rx_Antennas ATTRIBUTE
WITH APPROPRIATE SYNTAX

Null terminated list of integers;

BEHAVIOR DEFINED AS

"This attribute represent a list of one or more antennas which can be used as the transmit antenna. Each antenna is define as an integer starting with antenna 1 to antenna N where N is < or = 255.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Suprt_Rx_Antennas (265) };

1.1.4.27 aDiversity_Suprt

Diversity_Suprt ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"This attribute defines this implementation's support for diversity. This attribute can have one of three values. 01h indicates that diversity is available and performed over a fixed list of antennas define in attribute Diversity_Slct_Rx. 02h indicates that diversity is not supported. 03h indicates that diversity is supported and that control of diversity is also available. Diversity control indicates that the Diversity_Slct_Rx can be dynamically modified by the LME.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) MPDU_Max_Lngth_1M (276) };

1.1.4.28 aDiversity_Slct_Rx

Diversity_Slct_Rx ATTRIBUTE
WITH APPROPRIATE SYNTAX

Null terminated list of integers;

BEHAVIOR DEFINED AS

"This attribute represent a list of one or more antennas which can be used as receive antennas. Each antenna is define as an integer starting with antenna 1 to antenna N where N is < or = 255.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Diversity_Slct_Rx (287) };

1.1.4.29 aNbr_Suprt_Pwr_Lvls

Nbr_Suprt_Pwr_Lvls ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"This defines the number of power levels supported by the PMD. This attribute can have a value of 1 to 8.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Nbr_Suprt_Pwr_Lvls (298) };

1.1.4.30 aTx_Pwr_Lvl_1

Tx_Pwr_Lvl_1 ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"This defines the transmit output power for LEVEL1 in mWatts. This is also the default power level.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Tx_Pwr_Lvl_1 (3029) };

1.1.4.31 aTx_Pwr_Lvl_2

Tx_Pwr_Lvl_2 ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This defines the transmit output power for LEVEL2 in mWatts.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Tx_Pwr_Lvl_2 (31~~0~~) };

1.1.4.32 aTx_Pwr_Lvl_3

Tx_Pwr_Lvl_3 ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This defines the transmit output power for LEVEL3 in mWatts.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Tx_Pwr_Lvl_3 (32~~1~~) };

1.1.4.33 aTx_Pwr_Lvl_4

Tx_Pwr_Lvl_4 ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This defines the transmit output power for LEVEL4 in mWatts.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Tx_Pwr_Lvl_4 (33~~2~~) };

1.1.4.34 aTx_Pwr_Lvl_5

Tx_Pwr_Lvl_5 ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This defines the transmit output power for LEVEL5 in mWatts.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Tx_Pwr_Lvl_5 (34~~3~~) };

1.1.4.35 aTx_Pwr_Lvl_6

Tx_Pwr_Lvl_6 ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This defines the transmit output power for LEVEL6 in mWatts.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Tx_Pwr_Lvl_6 (35~~4~~) };

1.1.4.36 aTx_Pwr_Lvl_7

Tx_Pwr_Lvl_7 ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This defines the transmit output power for LEVEL7 in mWatts.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Tx_Pwr_Lvl_7 (36~~5~~) };

1.1.4.37 aTx_Pwr_Lvl_8

Tx_Pwr_Lvl_8 ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This defines the transmit output power for LEVEL8 in mWatts.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Tx_Pwr_Lvl_8 (376) };

1.1.4.38 aCurrent_Tx_PwrLvl

Current_Tx_PwrLvl ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"The Tx_Pwr_Lvl_N currently being used to transmit data. Some PHYs also use this value to determine the receiver sensitivity requirements for CCA. ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Current_Tx_PwrLvl (387) };

1.1.4.39 aHop_Time

Hop_Time ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"The time in nanoseconds for the PMD to change from channel 2 to 80";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Hop_Time (398) };

1.1.4.40 aCurrent_Channel_Nbr

Current_Channel_Nbr ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This defines the current channel number of the frequency loaded in the RF synthesizer";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Current_Channel_Nbr (4039) };

1.1.4.41 aMax_Dwell_Time

Max_Dwell_Time ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"The maximum time in nanoseconds that the radio can operate on a single channel";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Max_Dwell_Time (410) };

1.1.4.42 aCurrent_Dwell_Time

Current_Dwell_Time ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"The current time in nanoseconds that the radio shall operate on a single channel set by the MAC";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Current_Dwell_Time (424) };

1.1.4.43 aCurrent_Set

Current_Set ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"This attribute represents the current set of patterns the PHY LME is using to determine the hop sequence.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Current_Set (432) };

1.1.4.44 aCurrent_Pattern

Current_Pattern ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"This attribute represents the current pattern the PHY LME is using to determine the hop sequence.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Current_Pattern (443) };

1.1.4.45 aCurrent_Index

Current_Index ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"This attribute represents the current index value the PHY LME is using to determine the

Current_Channel_Nbr.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Current_Index (454) };

1.1.4.46 aCurrent_Channel

Current_Channel ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"This is an indication of the current operating frequency channel of the DSSS PHY. ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Current_Channel (465) };

1.1.4.47 aCCA_Mode_Suprt

CCA_Mode_Suprt ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This is an indication of the DSSS PHY CCA modes which are supported. ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) CCA_Mode_Suprt (476) };

1.1.4.48 aCurrent_CCA_Mode

Current_CCA_Mode ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This is an indication of the current CCA method in operation. ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Current_CCA_Mode (487) };

1.1.4.49 aED_Threshold

ED_Threshold ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This is an indication of the current Energy Detect Threshold being used by the DSSS PHY. ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) ED_Threshold (498) };

1.1.4.50 aSynthesizer_Locked

Synthesizer_Locked ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This is an indication that the PMD's synthesizer is locked to the current channel specified in the

Current_Channel_Nbr. 00h represents unlocked while FFh represents locked. ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Synthesizer_Locked (50) };

1.1.4.51 ~~{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Synthesizer_Locked (49) };~~ aCurrent_Power_State

Current_Power_State ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;

BEHAVIOR DEFINED AS

"This is an indication of the current power state of the PHY. ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Current_Power_State (519) };

1.1.4.51 — aSleep_Turnon_Time

~~Sleep_Turnon_Time ATTRIBUTE
WITH APPROPRIATE SYNTAX~~

~~integer;~~

~~BEHAVIOR DEFINED AS~~

~~"This is an indication of the time in microseconds required by the PHY to progress from the SLEEP power down state to the ACTIVE operating state.";~~

~~REGISTERED AS~~

~~{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Sleep_Turnon_Time (51) };~~

1.1.4.51 — aDoze_Turnon_Time

Doze_Turnon_Time ATTRIBUTE
WITH APPROPRIATE SYNTAX

integer;

BEHAVIOR DEFINED AS

"This is an indication of the time in microseconds required by the PHY to progress from the Doze power down state to the ACTIVE operating state. ";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(10036) phy(3) attribute(7) Doze_Turnon_Time (532) };

