

Knobs, Dials and Sliders

- or -

the Management Information Base

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Abstract: An initial description of the structure and definition of the Management Information Base is presented.

Action: Adopt motion requesting 802 to obtain identifying number from ANSI for 802.11 MIB. Adopt the preliminary information in this submission as the work framework for the MIB.

1. MIB Structure

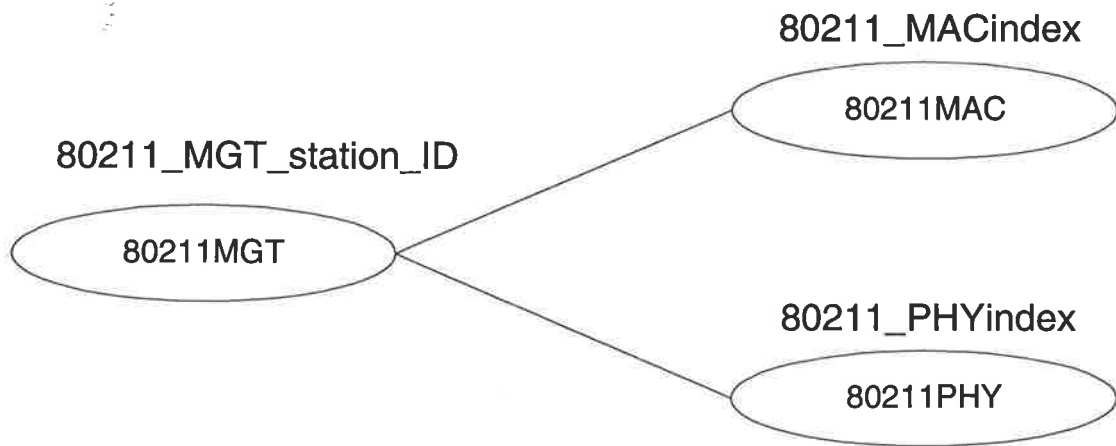


Figure - 802.11 Naming Tree

1.1. Attributes

1.1.1. Station Management Attributes

1.1.1.1. agStation_ID_grp

1.1.1.2. agStation_Config_grp

1.1.1.3. agStatus_grp

1.1.1.4. agMIB_Operation_grp

1.1.2. MAC Attributes

1.1.2.1. agCapabilities_grp

1.1.2.2. agConfig_grp

1.1.2.3. agAddress_grp

1.1.2.4. agOperation_grp

1.1.2.5. agCounters_grp

1.1.2.6. agFrame_Error_Condition_grp

1.1.2.7. agStatus_grp

1.1.3. PHY Attributes

1.1.3.1. agConfig_grp

1.1.3.2. agOperation_grp

1.1.3.3. agError_Counters_grp

1.1.3.4. agBER_grp

1.1.3.5. agStatus_grp

1.2. Actions

1.2.1.SMT_Actions

1.2.2.MAC_Actions

1.2.3.PHY_Actions

1.3. Notifications

1.3.1.SMT_Notifications

1.3.2.MAC_Notifications

1.3.3.PHY_Notifications

1.4. Managed Object Class Templates

1.4.1.SMT Object Class

1.4.1.1. o80211_Mgt

1.4.2.MAC Object Class

1.4.2.1. o80211_MAC

1.4.3.PHY Object Class

1.4.3.1. o80211_PHY

1.5. Attribute Group Templates

1.5.1. Station Management Attributes

1.5.1.1. agStation_ID_grp

1.5.1.2. agStation_Config_grp

1.5.1.3. agStatus_grp

1.5.1.4. agMIB_Operation_grp

1.5.2. MAC Attributes

1.5.2.1. agCapabilities_grp

1.5.2.2. agConfig_grp

1.5.2.3. agAddress_grp

1.5.2.4. agOperation_grp

1.5.2.5. agCounters_grp

1.5.2.6. agFrame_Error_Condition_grp

1.5.2.7. agStatus_grp

1.6. Attribute Templates

1.6.1. SMT Attributes

1.6.1.1. aStation_ID

Station_ID ATTRIBUTE

DERIVED FROM

IEEE802CommonDefinitions.MACAddress;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) SMT(0) attribute(7) station_id(0) }

1.6.1.2. aResourceTypeIDName

ATTRIBUTE

DERIVED FROM

IEEE802CommonDefinitions.ResourceTypeIDName;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) SMT(0) attribute(7) resourcetypeidname(1) };

1.6.1.3. aResourceInfo

ResourceInfo ATTRIBUTE

DERIVED FROM

IEEE802CommonDefinitions.ResourceInfo;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) SMT(0) attribute(7) resourceinfo(3) };

1.6.1.4. aActing_as_AP_Status

Acting_as_AP_Status ATTRIBUTE

WITH APPROPRIATE SYNTAX

boolean;

BEHAVIOUR DEFINED AS

"True if this station is acting as an access point, false otherwise.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) SMT(0) attribute(7) acting_as_ap_status(4) };

1.6.1.5. aAP_Address

AP_Address ATTRIBUTE

DERIVED FROM

IEEE802CommonDefinitions.MACAddress;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) SMT(0) attribute(7) ap_address(5) };

1.6.1.6. aBSS_ID

BSS_ID ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

"This attribute identifies the basic service set (BSS) with which the station is currently associated.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) SMT(0) attribute(7) bss_id(6) };

1.6.1.7. aESS_ID

ESS_ID ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

"This attribute identifies the extended service set (ESS) with which the station is associated, if any.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) SMT(0) attribute(7) ess_id(7) };

1.6.1.8. aKnown_APs

Known_APs ATTRIBUTE

WITH APPROPRIATE SYNTAX

A sequence of 32 data structures that including the MAC address, BSS_ID, ESS_ID and PHY specific information required to identify the most recent 32 access points encountered.";

BEHAVIOUR DEFINED AS

;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) SMT(0) attribute(7) known_aps(8) };

1.6.1.9.

ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

REGISTERED AS
{ };

1.6.2. MAC Attributes

1.6.2.1. aMAC_Address

MAC_Address ATTRIBUTE

DERIVED FROM

IEEE802CommonDefinitions.MACAddress;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) mac_address(0) };

1.6.2.2. aGroup_Addresses (set)

Group_Addresses ATTRIBUTE

DERIVED FROM

IEEE802CommonDefinitions.MACAddress;

BEHAVIOUR DEFINED AS

"A sequence of X?X?X? MAC_Addresses identifying the multicast addresses for which this station will receive frames."

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) group_addresses(1) };

1.6.2.3. aPromiscuous_Status

Promiscuous_Status ATTRIBUTE

WITH APPROPRIATE SYNTAX

Boolean;

BEHAVIOUR DEFINED AS

"This attribute is true when the station is enabled to receive all frames promiscuously. It is false otherwise.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) promiscuous_status(2) };

1.6.2.4. aTransmitted_Frame_Count

Transmitted_Frame_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":pdusSentCounter;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7)
transmitted_frame_count(3) };

1.6.2.5. aOctets_Transmitted_Count

Octets_Transmitted_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":octetsSentCounter;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7)
octets_transmitted_count(4) };

1.6.2.6. aMulticast_Transmitted_Frame_Count

Multicast_Transmitted_Frame_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":pdusSentCounter;

BEHAVIOUR DEFINED AS

"This counter shall increment only when the multicast/broadcast bit is set in the destination MAC address and the destination MAC address is not the broadcast address.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7)
multicast_transmitted_frame_count(5) };

1.6.2.7. aBroadcast_Transmitted_Frame_Count

Broadcast_Transmitted_Frame_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":pdusSentCounter;

BEHAVIOUR DEFINED AS

"This counter shall increment only when the destination MAC address is the broadcast address.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7)
broadcast_transmitted_frame_count(6) };

1.6.2.8. aFailed_Count

Failed_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":counter;

BEHAVIOUR DEFINED AS

"This counter shall increment when a frame is not transmitted due to the number of transmit attempts exceeding the retry_max value.";

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) failed_count(7) };
```

1.6.2.9. aCollision_count

Collision_count ATTRIBUTE

DERIVED FROM;

"ISO/IEC 10165-2":counter

BEHAVIOUR DEFINED AS

"This counter shall increment when a collision is detected.";

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) collision_count(8) };
```

1.6.2.10. aSingle_Collision_Count

Single_Collision_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":counter;

BEHAVIOUR DEFINED AS

"This counter shall increment when a frame is successfully transmitted after a single collision.";

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7)
single_collision_count(9) };
```

1.6.2.11. aMultiple_Collision_Count

Multiple_Collision_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":counter;

BEHAVIOUR DEFINED AS

"This counter shall increment when a frame is successfully transmitted after more than one collision.";

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7)
multiple_collision_count(10) };
```

1.6.2.12. aReceived_Frame_Count

Received_Frame_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":pdusReceivedCounter;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7)
received_frame_count(11) };

1.6.2.13. aOctets_Received_Count

Octets_Received_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":octetsReceivedCounter;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7)
octets_received_count(12) };

1.6.2.14. aMulticast_Received_Frame_Count

Multicast_Received_Frame_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":pdusReceivedCounter;

BEHAVIOUR DEFINED AS

"This counter shall increment when a frame is received with the multicast/broadcast bit set in the destination MAC address, the destination MAC address is not the broadcast address and the destination address is in the set of Group_Addresses.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7)
multicast_received_frame_count(13) };

1.6.2.15. aBroadcast_Received_Frame_Count

Broadcast_Received_Frame_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":pdusReceivedCounter;

BEHAVIOUR DEFINED AS

"This counter shall increment when a frame is received with the destination MAC address equal to the broadcast address.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7)
broadcast_received_frame_count(14) };

1.6.2.16. aError_Count

Error_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":corruptedPDUsReceivedCounter;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) error_count(15) };

1.6.2.17. aFCS_Error_Count

FCS_Error_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":counter;

BEHAVIOUR DEFINED AS

"This counter shall increment when an FCS error is detected in a received frame.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) fcs_error_count(16) };

1.6.2.18. aLength_Mismatch_Count

Length_Mismatch_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":counter;

BEHAVIOUR DEFINED AS

"This counter shall increment when a frame is received and the number of bytes in the frame does not equal the value in the length field of the frame.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) length_mismatch_count(17) };

1.6.2.19. aFrame_Too_Long_Count

Frame_Too_Long_Count ATTRIBUTE

DERIVED FROM

"ISO/IEC 10165-2":counter;

BEHAVIOUR DEFINED AS

"This counter shall increment when a received frame that exceeds Max_Frame_Length is detected.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) frame_too_long_count(18) };

1.6.2.20. aMAC_Enable_Status

MAC_Enable_Status ATTRIBUTE

WITH APPROPRIATE SYNTAX

Boolean;

BEHAVIOUR DEFINED AS

"This attribute is true when the MAC sublayer is enabled. It is false otherwise. Setting this attribute true causes the MAC to become operational in the idle state.";

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) mac_enable_status(19)
};
```

1.6.2.21. aTransmit_Enable_Status

Transmit_Enable_Status ATTRIBUTE

WITH APPROPRIATE SYNTAX

Boolean;

BEHAVIOUR DEFINED AS

"This attribute is true when transmission is enabled. It is false otherwise. Setting this attribute to true allows the MAC to transmit frames.";

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7)
transmit_enable_status(20) };
```

1.6.2.22. aNAV

NAV ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

"This attribute indicates the amount of time remaining that the station will consider the medium to be in use by another station. This attribute is updated whenever there is a change in the MAC network allocation vector.";

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) nav(21) };
```

1.6.2.23. aNAV_max (superframe time less min contention area)

NAV_max (superframe time less min contention area) ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

"This is the maximum allowable value for the NAV.";

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) nav_max(22) };
```

1.6.2.24. aRate_factor

Rate_factor ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

"This attribute indicates the current rate (in bytes per second) at which data is transferred across the medium.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) rate_factor(23) };

1.6.2.25. aHandshake_overhead (# bytes, time?)

Handshake_overhead (# bytes, time?) ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) handshake_overhead(24) };

1.6.2.26. aSIFS (time)

SIFS (time) ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) sifs(25) };

1.6.2.27. aPIFS (time)

PIFS (time) ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) pifs(26) };

1.6.2.28. aDIFS (time)

DIFS (time) ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) difs(27) };

1.6.2.29. aRTS_Threshold (# bytes)

RTS_Threshold (# bytes) ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

"This attribute causes the MAC to transmit a full RTS/CTS handshake prior to transmission of an individually addressed Data frame if the number of bytes in the MSDU is greater than the value of this attribute. A Data frame may be transmitted without the RTS/CTS handshake otherwise.";

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) rts_threshold(28) };

1.6.2.30. aTotal_Backoff_Time (# slots)

Total_Backoff_Time (# slots) ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) total_backoff_time(29) };

1.6.2.31. aSlot_time

Slot_time ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) slot_time(30) };

1.6.2.32. aCW_max

CW_max ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) cw_max(31) };

1.6.2.33. aCW_min

CW_min ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) cw_min(32) };

1.6.2.34. aCTS_Time

CTS_Time ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) cts_time(33) };

1.6.2.35. aACK_Time

ACK_Time ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) rts_time(34) };

1.6.2.36. aRetry_max

Retry_max ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) retry_max(35) };
```

1.6.2.37. aMax_Frame_Length

Max_Frame_Length ATTRIBUTE

WITH APPROPRIATE SYNTAX

Integer;

BEHAVIOUR DEFINED AS

"This attribute specifies the maximum MSDU length that will be accepted for transmission. If a frame is received with a length that exceeds this value, a Frame_Too_Long error will be reported.";

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) max_frame_length(36) };
```

1.6.2.38. aManufacturer_ID

Manufacturer_ID ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) manufacturer_id(37) };
```

1.6.2.39. aProduct_ID

Product_ID ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) MAC(1) attribute(7) product_id(38) };
```

1.6.3.PHY Attributes

1.6.3.1. aPHY_Type

PHY_Type ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) PHY(1) attribute(7) phy_type(0) };
```

1.6.3.2. aPHY_Data_Rate

PHY_Data_Rate ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) PHY(1) attribute(7) phy_data_rate(1) };
```

1.6.3.3. aChannel_Capability

Channel_Capability ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) PHY(1) attribute(7) channel_capability(2) };
```

1.6.3.4. aCurrent_Channel

Current_Channel ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) PHY(1) attribute(7) curretn_channel(3) };
```

1.6.3.5. aChannel_List

Channel_List ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) PHY(1) attribute(7) channel_list(4) };

1.6.3.6. aDiversity_Capability

Diversity_Capability ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) PHY(1) attribute(7) diversity_capability(5) };

1.6.3.7.

ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

{ };

1.6.3.8. aBER_Estimate

BER_Estimate ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) PHY(1) attribute(7) ber_estimate(7) };

1.6.3.9. aPHY_Turnaround_Time (components?)

PHY_Turnaround_Time (components?) ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) PHY(1) attribute(7)
  phy_turnaround_time(8) };
```

1.6.3.10. a(other stuff from Michael)

(other stuff from Michael) ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

```
{ };
```

1.6.3.11. aManufacturer_ID

Manufacturer_ID ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) PHY(1) attribute(7) manufacturer_id(10) };
```

1.6.3.12. aProduct_ID

Product_ID ATTRIBUTE

WITH APPROPRIATE SYNTAX

;

BEHAVIOUR DEFINED AS

;

REGISTERED AS

```
{ iso(1) member-body(2) us(840) ieee802dot11(xxxx) PHY(1) attribute(7) product_id(11) };
```

1.7. Action Templates

1.7.1.SMT Actions

1.7.1.1. ac80211_Initialize_SMT

1.7.2.MAC Actions

1.7.2.1. ac80211_Initialize_MAC

1.7.2.2. ac80211_Add_Group_Address

1.7.2.3. ac80211_Delete_Group_Address

1.7.2.4. ac80211_Execute_Self_Test

1.7.3.PHY Actions

1.7.3.1. ac80211_Initialize_PHY

1.7.3.2. ac80211_Execute_Self_Test

1.8. Notification Templates

1.8.1.SMT Notifications

n80211_Associate

n80211_Disassociate

1.8.2.MAC Notifications

n80211_Frame_Error_Ratio_Exceeded

1.8.3.PHY Notifications

n80211_BER_Exceeded

1.9. ASN.1 Definitions

1.9.1. Common Definitions

Counter (32 bits)

Address (48 bits canonical?)

Station_Identifier (64 bits canonical?)

Flag (boolean)

Time (32 bits, resolution?)

Timer_2s_Complement (x bits, resolution?)

1.9.2. SMT Definitions

1.9.3. MAC Definitions

1.9.4. PHY Definitions

1.10. Name Binding

1.10.1. MAC Naming

1.10.2. PHY Naming

Motion #1: I move that the chairman of 802.11 be authorized and directed to submit a request for an "object identifier arc" to the 802 Executive Committee in accordance with paragraph C.3 of IEEE Std. 802.1F-1993.

Motion #2: I move that this submission be adopted as the framework for the MIB description.