

IEEE 802.11 Wireless Access Method and Physical Layer Specifications

Title: **Outcome of MIB Ad-hoc Meeting**

Symbionics Developments Ltd
St John's Innovation Park
Cowley Road
Cambridge, UK
CB4 4WS

Presented by: Tim Phipps
Tel: +44 1223 421025
Fax: +44 1223 421031
Email: tgcp@symbionics.co.uk

0.0.0.0.1. oSMT

SMT MANAGED OBJECT CLASS
DERIVED FROM "ISO/IEC 10165-2":top;
CHARACTERIZED BY

 pSMT_base

 PACKAGE

 BEHAVIOUR

 bSMT_base BEHAVIOUR

 DEFINED AS "The SMT object class provides the necessary support at the station to manage the processes in the station such that the station may work cooperatively as a part of an 802.11 network.";

 ATTRIBUTES

aStation_ID	GET,
aActing_as_AP_Status	GET,
aCurrent_AP_MAC_Address	GET,
aCurrent_BSS_ID	GET,
aCurrent_ESS_ID	GET-REPLACE,
aKnown_APs	GET, (1 to N deep)
aAuthentication_Algorithms	GET,
aPrivacy_Algorithms	GET,
aSelected_Authentication_Algorithm	GET,
aSelected_Privacy_Algorithm	GET,
aAuthentication_Handshake_State	GET,
aPrivacy_Handshake_State	GET,
aAuthentication_State	GET,
aPrivacy_State	GET,
aMin_Authentication_Required	GET,
aMin_Privacy_Required	GET,
aAssociated_State	GET,
aBeacon_Period	GET-REPLACE,
aPower_Mgt_State	GET-REPLACE,
aPower_Mgt_Capability	GET;

ATTRIBUTE GROUPS

agStation_Config_grp,
agAuthentication_grp,
agPrivacy_grp;

ACTIONS

acSMT_init,
acSMT_reset;

NOTIFICATIONS

nAssociate;
nDisassociate;

REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(xxxx) smt(0) };

0.0.0.1. MAC Object Class**0.0.0.1.1. oMAC**

MAC MANAGED OBJECT CLASS

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

CHARACTERIZED BY

pMAC_base

PACKAGE

BEHAVIOUR

bMAC_base BEHAVIOUR

DEFINED AS "The MAC object class provides the necessary support for the access control, generation and verification of frame check sequences, and proper delivery of valid data to upper layers.";

ATTRIBUTES

aMAC_Address	GET,
aGroup_Addresses	GET-REPLACE,
aPromiscuous_Status	GET,
aTransmitted_Frame_Count	GET-REPLACE,
aOctets_Transmitted_Count	GET-REPLACE,
aMulticast_Transmitted_Frame_Count	GET-REPLACE,
aBroadcast_Frame_Count	GET-REPLACE,
aFailed_Count	GET-REPLACE,
aFrame Exchange Error Count	Collision_Count GET-REPLACE,
aSingle Frame Exchange Error Count	Single_Collision_Count GET-REPLACE,
aMultiple Frame Exchange Error Count	Multiple_Collision_Count GET-REPLACE,
aReceived_Frame_Count	GET-REPLACE,
aOctets_Received_Count	GET-REPLACE,
aMulticast_Received_Frame_Count	GET-REPLACE,
aBroadcast_Received_Frame_Count	GET-REPLACE,
aReceived_Frame_Error_Count	GET-REPLACE,
aFCS_Error_Count	GET-REPLACE,
aLength_Mismatch_Count	GET-REPLACE,
aFrame_Too_Long_Count	GET-REPLACE,
aFrame With Protocol Error Count	GET-REPLACE,
aMAC_Enable_Status	GET,
aTransmit_Enable_Status	GET,
aNAV	GET,
aNAV_max	GET,
aRate_Factor	GET,
aHandshake_Overhead	GET,
aSIFS	GET, <u>Note: May need modification to include 94/124</u>
aPIFS	GET, <u>Note: May need modification to include 94/124</u>
aDIFS	GET, <u>Note: May need modification to include 94/124</u>

aRTS_Threshold	GET-REPLACE,
aTotal_Accumulated_Backoff_Time	GET-REPLACE,
aSlot_Time	GET,
CW_max	GET-REPLACE,
aCW_min	GET-REPLACE,
aCTS_Time	GET,
aACK_Time	GET,
aRTS_Retry_max	GET-REPLACE,
aDATA_Retry_max	GET-REPLACE,
aMax_Frame_Length	GET,
aFragmentation_Threshold	GET-REPLACE,
aManufacturer_ID	GET,
aProduct_ID	GET;

ATTRIBUTE GROUPS

- agCapabilities_grp,
- agConfig_grp,
- agAddress_grp,
- agOperation_grp,
- agCounters_grp,
- agFrame_Error_Condition_grp,
- agStatus_grp;

ACTIONS

- acMAC_init,
- acMAC_reset;

NOTIFICATIONS

- nFrame_Error_Rate_Exceeded;

REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(xxxx) mac(1) };

