IEEE P802.11
Wireless LANs

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| 802.11 TGm Proposed Resolution for CIDs 12011-12020 |
| Date: 2011-05-11 |
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Abstract

These comments were the result of the roll-in review of the TGv MIB. Joe Kwak reviewed the MIB after roll in and noted errors which the editor could not correct. Adrian submitted these comments on behalf of this reviewer. Changes for MIB text within this document are noted using MS Word Track Changes.

# The Comments

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| --- | --- | --- | --- | --- |
| 12011 | 2017.53 | C.3 | From Joe Kwak: Obtuse definition wording. Result of design by committee in resolving other comments?? Main problem is separation of "transmitted" adjective from its "frames" object 6 lines away. This affects several MIB definitions that use this similar wording. | I suggest making this an open action item for Joe Kwak.JK: suggested changed wording is below. |
| 12012 | 2034.55 | C.3 | From Joe Kwak: Missing request entry for Destination URI. Add it to list, and do a suitable variable definition(s). | I suggest making this an open action item for Joe Kwak.JK: suggested changed wording is below. |
| 12013 | 2037.53 | C.3 | From Joe Kwak: Description is incomplete. | Replace description with "This attribute indicates the time interval, expressed in the units indicatedin the Location Civic Request Service Interval Units field, at which the STArequests to receive Location Civic Reports. A Location Civic Request Service Intervalof 0 indicates that only a single Location Civic Report isrequested." |
| 12014 | 2038.26 | C.3 | From Joe Kwak: Referenced variable name is incorrect. | Replace "Location Service" with "Location Indentifier Request Service" in 2 PLACES. |
| 12015 | 2045.01 | C.3 | From Joe Kwak: There is no candidate list size to set. | Replace "candidate list size is set to 0" with "candidate list is null". |
| 12016 | 2046.60 | C.3 | From Joe Kwak: Missing default value. | Insert new line "DEFVAL { ''H }". |
| 12017 | 2069.53 | C.3 | From Joe Kwak: Missing default value. | Insert new line "DEFVAL { ''H }". |
| 12018 | 2079.03 | C.3 | From Joe Kwak: Inconsistent status syntax. | Replace SYNTAX line with "SYNTAX INTEGER {successful(0),requestFailed(1),requestRefused(2),requestIncapable(3),detectedFrequentTransition(4)}". |
| 12019 | 2079.61 | C.3 | From Joe Kwak: Missing Neighbor Report Candidate List Entries, see Fig 8-380 (D7.01). | I suggest making this an open action item for Joe Kwak.JK: suggested changed wording is below. |
| 12020 | 2080.33 | C.3 | From Joe Kwak: SYNTAX incomplete. See Table 8-227 (D7.01). | I suggest making this an open action item for Joe Kwak.JK: suggested changed wording is below. |

# Proposed resolution

Agree in principle to all. Make changes as indicated below, following the proposed changes listed above

# Discussion

When the change is not obvious, additional discussion items are included below for each listed CID.

# The Changes

### CID12011:

dot11MgmtOptionTODImplemented OBJECT-TYPE(11v)

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.

Its value is determined by device capabilities.

This attribute, when true, indicates that the station implementation is

capable of supporting Time Of Departure for Clause 15 (DSSS

PHY specification for the 2.4 GHz band designated for ISM applications) transmitted frames,Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification

(11y)) transmitted frames, Clause 16 (High Rate direct sequence spread spectrum (HR/

DSSS) PHY specification) transmitted frames, Clause 18 (Extended Rate PHY (ERP) specification(#

1468)(#1729)) transmitted frames and Clause 19 (High Throughput (HT) PHY specification(

11n)) transmitted frames when the dot11WirelessManagementImplemented is set to

true."

::= { dot11WirelessMgmtOptionsEntry 26 }

### CID12012:

Discussion:

TGv Event Request frame and Diagnostic Request frame each contain an optional field called Destination URI. This was a last minute TGv change and the purpose of this Destination URI is described in new Annex W. However the MIB does not contain a WNM request element to describe the Destination URI. The missing request element is added here.

Changes:

Dot11WNMRequestEntry ::=(11v)

SEQUENCE {

dot11WNMRqstIndex Unsigned32,

dot11WNMRqstRowStatus RowStatus,

dot11WNMRqstToken OCTET STRING,

dot11WNMRqstIfIndex InterfaceIndex,

dot11WNMRqstType INTEGER,

dot11WNMRqstTargetAdd MacAddress,

dot11WNMRqstTimeStamp TimeTicks,

dot11WNMRqstRndInterval Unsigned32,

dot11WNMRqstDuration Unsigned32,

dot11WNMRqstMcstGroup MacAddress,

dot11WNMRqstMcstTrigCon OCTET STRING,

dot11WNMRqstMcstTrigInactivityTimeout INTEGER,

dot11WNMRqstMcstTrigReactDelay INTEGER,

dot11WNMRqstLCRRqstSubject INTEGER,

dot11WNMRqstLCRIntervalUnits INTEGER,

dot11WNMRqstLCRServiceInterval INTEGER,

dot11WNMRqstLIRRqstSubject INTEGER,

dot11WNMRqstLIRIntervalUnits INTEGER,

dot11WNMRqstLIRServiceInterval INTEGER,

dot11WNMRqstEventToken INTEGER,

dot11WNMRqstEventType INTEGER,

dot11WNMRqstEventResponseLimit INTEGER,

dot11WNMRqstEventTargetBssid MacAddress,

dot11WNMRqstEventSourceBssid MacAddress,

dot11WNMRqstEventTransitTimeThresh INTEGER,

dot11WNMRqstEventTransitMatchValue OCTET STRING,

dot11WNMRqstEventFreqTransitCountThresh INTEGER,

dot11WNMRqstEventFreqTransitInterval INTEGER,

dot11WNMRqstEventRsnaAuthType OCTET STRING,

dot11WNMRqstEapType INTEGER,

dot11WNMRqstEapVendorId OCTET STRING,

dot11WNMRqstEapVendorType OCTET STRING,

dot11WNMRqstEventRsnaMatchValue OCTET STRING,

dot11WNMRqstEventPeerMacAddress MacAddress,

dot11WNMRqstRegulatoryClass INTEGER,

dot11WNMRqstChanNumber INTEGER,

dot11WNMRqstDiagToken INTEGER,

dot11WNMRqstDiagType INTEGER,

dot11WNMRqstDiagTimeout INTEGER,

dot11WNMRqstDiagBssid MacAddress,

dot11WNMRqstDiagProfileId INTEGER,

dot11WNMRqstDiagCredentials INTEGER,

dot11WNMRqstLocConfigLocIndParams OCTET STRING,

dot11WNMRqstLocConfigChanList OCTET STRING,

dot11WNMRqstLocConfigBcastRate INTEGER,

dot11WNMRqstLocConfigOptions OCTET STRING,

dot11WNMRqstBssTransitQueryReason INTEGER,

dot11WNMRqstBssTransitReqMode OCTET STRING,

dot11WNMRqstBssTransitDisocTimer INTEGER,

dot11WNMRqstBssTransitSessInfoURL OCTET STRING,

dot11WNMRqstBssTransitCandidateList OCTET STRING,

dot11WNMRqstColocInterfAutoEnable TruthValue,

dot11WNMRqstColocInterfRptTimeout INTEGER,

dot11WNMRqstVendorSpecific OCTET STRING,

dot11WNMRqstDestinationURI OCTET STRING

 }

. . . .

dot11WNMRqstVendorSpecific OBJECT-TYPE(11v)

SYNTAX OCTET STRING (SIZE(0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This attribute provides an envelope for any optional vendor specific subelements

that may be included in a WNM request element. Zero length is the

null default for this attribute."

DEFVAL { ''H }

::= { dot11WNMRequestEntry 54}

dot11WNMRqstDestinationURI OBJECT-TYPE(11v)

SYNTAX OCTET STRING (SIZE(0..253))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This attribute provides the Destination URI which defines an alternate destination for the WNM request. The alternate destination may be an internet address on an Ethernet adapter, for example, to be used when the wireless link to the requesting entity is unavailable or unreliable.

The default value is null."

DEFVAL { ''H }

::= { dot11WNMRequestEntry 55}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \* End of dot11WNMRequest TABLE

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### CID12013:

dot11WNMRqstLCRServiceInterval OBJECT-TYPE(11v)

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This attribute indicates the time interval, expressed in the units indicated in the Location Civic Request Service Interval Units field, at which the STA requests to receive Location Civic Reports. A Location Civic Request Service Intervalof 0 indicates that only a single Location Civic Report is requested."

::= { dot11WNMRequestEntry 16 }

### CID12014:

dot11WNMRqstLIRIntervalUnits OBJECT-TYPE(11v)

SYNTAX INTEGER {

seconds(0),

minutes(1),

hours(2)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This attribute indicates the units used in the Location Identifier

Request Service Interval."

::= { dot11WNMRequestEntry 18 }

dot11WNMRqstLIRServiceInterval OBJECT-TYPE(11v)

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This attribute indicates the time interval, expressed in the units indicated

in the Location Identifier Request Interval Units field, at which the STA

requests to receive Location Identifier Reports. A Location Identifier Request Service Interval

of 0 indicates that only a single Location Identifier Report is

requested."

::= { dot11WNMRequestEntry 19 }

### CID12015:

dot11WNMRqstBssTransitCandidateList OBJECT-TYPE(11v)

SYNTAX OCTET STRING (SIZE(0..2304))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This attribute lists one or more Neighbor Report elements described in

8.4.2.39 (Neighbor Report element(11k)). If the STA has no Transition Candidate

information in response to the BSS Transition Management Query

frame, the candidate list is null. "

::= { dot11WNMRequestEntry 51 }

### CID12016:

dot11WNMVendorSpecificRprtContent OBJECT-TYPE(11v)

SYNTAX OCTET STRING (SIZE(0..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute provides an envelope for all the vendor specific subelements

that may be included in a WNM Vendor Specific request element. The default value is null. "

DEFVAL { ''H }

::= { dot11WNMVendorSpecificReportEntry 4 }

### CID12017:

dot11WNMDiagConfigProfRprtSupportedOperatingClasses OBJECT-TYPE(11v)

SYNTAX OCTET STRING (SIZE(0..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the current Operating Class followed by a

list of each Supported Operating Class, as defined in 8.4.2.56 (Supported

Operating Classes(#2113) element(11y)). Each octet contains an

integer representing a operating class. Operating Classes are

defined in Annex E. The default value is null. "

DEFVAL { ''H }

::= { dot11WNMDiagConfigProfReportEntry 6 }

### CID12018:

Discussion:

Changes:

dot11WNMLocConfigRprtStatusResult OBJECT-TYPE(11v)

SYNTAX INTEGER {

successful(0),

requestFailed(1),

requestRefused(2),

requestIncapable(3),

detectedFrequentTransition(4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute contains the resulting status of the Location Configuration

Request frame for the indicated Location Parameter subelement ID, as

listed in Table 8-132 (Peer-to-Peer Link Event Request subelement(11v)),

Event Report Status."

::= { dot11WNMLocConfigReportEntry 9 }

### CID12019:

Discussion:

Changes:

Dot11WNMBssTransitReportEntry ::=

SEQUENCE {

dot11WNMBssTransitRprtIndex Unsigned32,

dot11WNMBssTransitRprtRqstToken OCTET STRING,

dot11WNMBssTransitRprtIfIndex InterfaceIndex,

dot11WNMBssTransitRprtStatusCode INTEGER,

dot11WNMBssTransitRprtBSSTerminationDelay INTEGER,

dot11WNMBssTransitRprtTargetBssid MacAddress,

dot11WNMBssTransitRprtCandidateList OCTET STRING }

. . . .

dot11WNMBssTransitRprtTargetBssid OBJECT-TYPE(11v)

SYNTAX MacAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the target BSSID for this BSS Transition

Report."

::= { dot11WNMBssTransitReportEntry 6 }

dot11WNMBssTransitRprtCandidateList OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..2304))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This attribute lists one or more Neighbor Report elements which are BSS transition candidates for this request. The Neighbore Report elements are described in

8.4.2.39. "

::= { dot11WNMBssTransitReportEntry 7 }

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \* End of dot11WNMBssTransitReport TABLE

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### CID12020:

Discussion:

Changes:

dot11WNMBssTransitRprtStatusCode OBJECT-TYPE(11v)

SYNTAX INTEGER {

accept(0),

rejectUnspecified(1),

rejectInsufficientBeacons(2),

rejectInsufficientCapacity(3),

rejectBssTerminationUndesired(4),

rejectBssTerminationDelayRequest(5),rejectBssTransitionCandidateListProvided(6),

rejectNoSuitableBssTransitionCandidates(7),

rejectLeavingEss(8)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the status of this BSS Transition report."

::= { dot11WNMBssTransitReportEntry 4 }

**NOTE TO EDITOR**: Please change “Zero length is the null default for this attribute.” To “The default value is null.” In all places in the MIB. Also at P2078.19 & P2079.21 insert “DEFVAL { ''H }”.