IEEE P802.11  
Wireless LANs

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| PDT-Joint-MIB | | | | |
| Date: 2024-12-25 | | | | |
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Abstract

This document contains Proposed Draft Text (PDT) for the Management Information Base(MIB) feature of the proposed TGbn (UHR, Ultra High Reliability) amendment to the 802.11 standard.

# Revision information

The following is a summary of the important changes that occurred within each revision of this document:

|  |  |
| --- | --- |
| **Revision** | **Major changes** |
| 0 | Initial revision |
| 1 | Modify ‘dot11CoRTwtOptionImplemented’ into ‘dot11CoRTWTOptionImplemented’ |
|  |  |
|  |  |

**Annex C**

(normative)

**ASN.1 encoding of the MAC and PHY MIB**

**C.3 MIB Detail**

**Change the comment list following the dot11smt definition as follows (not all lines shown):**

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

-- \* Major sections

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

-- Station ManagemenT (SMT) Attributes

-- 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 IEEE 802.11

-- network."

dot11smt OBJECT IDENTIFIER ::= { ieee802dot11 1 }

-- dot11smt GROUPS

-- ...

-- dot11EBSCTrafficStreamTable ::= ( dot11smt 48 )

-- dot11UHRSTAConfigTable ::= ( dot11smt 49 )

**Insert the following after the dot11EBSCTrafficStream TABLE:**

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

-- \* dot11UHRSTAConfig TABLE

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

dot11UHRSTAConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot11UHRSTAConfigEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Station Configuration attributes. In tabular form to allow for multiple

instances on an agent."

::= { dot11smt 49 }

dot11UHRSTAConfigEntry OBJECT-TYPE

SYNTAX Dot11UHRStationConfigEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry (conceptual row) in the dot11UHRStationConfig Table.

ifIndex - Each IEEE 802.11 interface is represented by an ifEntry. Interface tables in this MIB module

are indexed by ifIndex."

INDEX { ifIndex }

::= { dot11UHRSTAConfigTable 1 }

Dot11UHRSTAConfigEntry ::=

SEQUENCE {

dot11CoRTWTOptionImplemented TruthValue,

dot11NPCAOptionImplemented TruthValue,

dot11DUOOptionImplemented TruthValue

}

dot11CoRTWTOptionImplemented OBJECT-TYPE

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 STA implementation is

capable of supporting CoRTWT operation."

::= { dot11UHRSTAConfigEntry 1 }

dot11NPCAOptionImplemented OBJECT-TYPE

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 STA implementation is

capable of supporting NPCA operation."

::= { dot11UHRSTAConfigEntry 2 }

dot11DUOOptionImplemented OBJECT-TYPE

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 STA implementation is

capable of supporting DUO operation."

::= { dot11UHRSTAConfigEntry 3 }

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

-- \* End of dot11UHRSTAConfig TABLE

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

**References:**

1. 11-24-1966-02-00bn-pdt-mac-crtwt, Giovanni Chisci(Qualcomm Technologies Inc.)
2. 11-24-1762-11-00bn-pdt-mac-npca, Matthew Fischer(Broadcom)
3. 11-24-2040-02-00bn-pdt-mac-coexistence, Laurent Cariou(Intel)