IEEE P802.11
Wireless LANs

LB133: Normative Text Changes for Annex Q				
Date: 2008-SEP-10				
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Abstract

This document contains normative text to add Annex Q to TGv draft. TGv PAR explicitly requires a management interface for TGv to permit access to TGv management functions to other network management entities. TGk had similar requirement and defined Annex Q to satisfy this requirement. This contribution modifies the 802.11k Annex Q to add new MIB tables and variables for the TGv management Requests and Reports. Note that not all TGv features and management features. TGv features which are related to new services FBMS, TFS, etc. and which are not management features are not included in Annex Q.

Annex Q

~~Insert the following new~~ Rename Annex and Modify **Annex Q** *as shown:*

(normative)

ASN.1 encoding of the ~~RRM~~ WNM MIB

```
-- ************************************************************************
-- * IEEE 802.11 RRM WNM MIB
-- ************************************************************************
-- * The primary interface to the Radio Resource Measurements is meant to be
-- * real-time information obtained through the request/response mechanisms of
-- * RRM.  A secondary interface to the measurements is through retention of
-- * information in the MIB.  The information, meant to be retained for later
-- * access, includes the MIB entries of Annex Q.  Non-SNMP requests for infor-
-- * mation are obtained via object IDs (OIDs) through the NDIS or "wireless"
-- * interfaces in the operating systems.  SNMP requests for information are
-- * obtained via SNMP SETs and GETs.
-- * The primary interface to the Radio Resource Measurements and Wireless
-- * Network Management functions is meant to be real-time information
-- * obtained through the request/response mechanisms of RRM and WNM.
-- * A secondary interface to the measurements is through retention of
-- * information in the MIB.  The information, meant to be retained for
-- * later access, includes the MIB entries of Annex Q.  Non-SNMP requests
-- * for information are obtained via object IDs (OIDs) through the NDIS
-- * or "wireless" interfaces in the operating systems.  SNMP requests for
-- *  information are obtained via SNMP SETs and GETs.


-- ************************************************************************
-- * Radio Resource Measurement
-- ************************************************************************

dot11RadioResourceMeasurement OBJECT IDENTIFIER ::= { dot11smt 14 }
-- ************************************************************************
-- *  dot11RRMRequest and dot11RRMReport Usage
-- *
-- * The dot11RRMRequest and dot11RRMReport portions of the RRM MIB
-- * provide access to the Radio Measurement service. By performing
-- * SET operations on the various dot11RRMRequest MIB objects,
-- * radio measurements may be initiated directly on the local STA or
-- * on any peer station within the same BSS. Subsequently, by
-- * performing GET operations on the various dot11RRMReport MIB
-- * objects the results of the requested measurements may be
-- * retrieved.
-- *
-- * In the diagram below, a radio measurement could be initiated
-- * for STA x by performing a MIB.set operation on the RRM MIB of
-- * STA x and specifying the MAC address of STA x in
-- * dot11RRMRqstTargetAdd. Additionally, it is possible to have STA x
-- * request a measurement from STA y by performing a MIB.set operation
-- * on the SME MIB of STA x and specifying the MAC address of STA y in
-- * dot11RRMRqstTargetAdd. In both cases the result of the measurements
-- * can be retrieved by performing a MIB.get operation on the RRM MIB
-- * of STA x upon completion of the measurement.
```

1

```
1    -- *
2    -- *
3    -- *      MIB.Set                                  MIB.Set
     -- *         or                                       or
4    -- *      MIB.Get                                  MIB.Get
5    -- *    +--------|---------+                     +--------|---------+
     -- *    | SME    |         |                     | SME    |         |
6    -- *    |       \ /        |                     |       \ /        |
7    -- *    |    +---------+    |                     |    +---------+    |
     -- *    |    | RRM MIB |    |                     |    | RRM MIB |    |
8    -- *    |    |         |    |                     |    |         |    |
9    -- *    |    |         |    |                     |    |         |    |
10   -- *    |    +---------+    |                     |    +---------+    |
     -- *    |                  |                     |                  |
11   -- *    |    / \           |                     |    / \           |
12   -- *    |    |   MREQUEST   |                     |    |   MREQUEST   |
     -- *    +----+-------------+                     +----+-------------+
13   -- *    |    |   MREPORT    |                     |    |   MREPORT    |
14   -- *    |   \ /  MEASURE   |     Action Frames    |   \ /  MEASURE   |
15   -- *    |                  | <--Measurement Request--> |              |
16   -- *    |                  | <--Measurement Report---> |              |
     -- *    | MLME             |                     | MLME             |
17   -- *    +------------------+                     +------------------+
18   -- *        STA x                                    STA y
19   -- *
     -- *
20   -- * Each STA maintains a single dot11RRMRequestTable in the SME MIB
21   -- * used to initiate RM Measurement Requests. Each dot11RRMRequestEntry
     -- * in the table represents an individual Measurement Request that
22   -- * makes up a complete Measurement Request Action frame.
23   -- * Multiple Measurement Requests may be concatenated into a single
     -- * Measurement Request Action frame by setting the same
24   -- * dot11RRMRqstToken value into multiple dot11RRMRequestEntrys.
25   -- *
26   -- * Each row, dot11RRMRequestEntry, of the dot11RRMRequestTable
     -- * provides read-create access for the initiation of a measurement
27   -- * request. The dot11RRMRequestNextIndex object can be used to
28   -- * determine which is the next row available. Each row corresponding to
29   -- * one measurement in the sequence is created with a dot11RRMRqstRowStatus
     -- * set to notInService. Once the dot11RRMRequestEntry(s) have been
30   -- * created for a desired measurement sequence the corresponding
31   -- * dot11RRMRqstRowStatus(s) objects are set to active to indicate that
32   -- * the SME can trigger the appropriate MLME primitives. Upon processing
     -- * the request, the SME returns the corresponding dot11RRMRqstRowStatus(s)
33   -- * object to notInService and are now available for additional
34   -- * measurement requests.
     -- *
35   -- * After a radio measurement is complete the RRM populates the RRMReport
36   -- * objects with the results of the measurement. Each STA maintains a set
37   -- * of RRMReport tables, one for each corresponding measurement type. The
38   -- * results of the entire measurement sequence are spread across the tables
     -- * based on what types of measurements were requested. Each xxxReportEntry
39   -- * within a xxxReportTable contains a xxxRprtRqstToken that corresponds
40   -- * to the original dot11RRMRqstToken in the measurement request. So the
     -- * results of the measurement can be collected by searching the appropriate
41   -- * xxxReportTables and retrieve any reports with the matching request
42   -- * xxxReportTables and retrieve any reports with the matching requesttoken.
43   -- *
     -- *
44   -- * Similar structures and mechanisms are used for Wireless Network Management
45   -- * Request and Reports.  The WNM MIB defintions follow the RRM MIB definitions
46   -- * token.in this Annex.

47   -- ********************************************************************
48
49
50
```

Insert following MIB text at the end of Annex Q:

```
-- *  NEW WNM SECTIONS HERE!!

-- **********************************************************************
-- * Wireless Network Management
-- **********************************************************************

dot11WirelessNetworkManagment OBJECT IDENTIFIER ::= { dot11smt 15 }


-- **********************************************************************
-- * Wireless Network Management Requests
-- **********************************************************************

dot11WNMRequest OBJECT IDENTIFIER ::= { dot11WirelessNetworkManagement 1 }

-- **********************************************************************
-- * dot11WNMRequest TABLE
-- **********************************************************************
dot11WNMRequestNextIndex OBJECT-TYPE
        SYNTAX Unsigned32(0..65535)
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "Identifies a hint for the next value of dot11WNMRqstIndex to be used in a
                row creation attempt for dot11WNMRequestTable. If no new rows can be cre-
                ated for some reason, such as memory, processing requirements, etc, the SME
                shall set this attribute to 0. It shall update this attribute to a proper
                value other than 0 as soon as it is capable of receiving new measurement
                requests. The nextIndex is not necessarily sequential nor monotonically
                increasing."
        ::= { dot11WNMRequest 1 }

dot11WNMRequestTable OBJECT-TYPE
        SYNTAX SEQUENCE OF Dot11WNMRequestEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "This group contains the current list of requests for WNM reports to be
                issued and have been issued until removed. A network manager adds a WNM
                request by creating a row with createAndWait row status and then filling in
                the request parameters/attributes. The request becomes active to be issued
                when the row status is set to Active. The columnar objects or attributes
                other than the rowStatus shall not be written if the rowStatus is Active.
                The request rows can be deleted, if commanded by a network manager via
                changing the value of dot11WNMRqstRowStatus to Destroy. This may leave
                orphaned rows if a manager crashes and forgets which rows are being used by
                it. One recommended way to manage orphaned or finished rows is to delete
                rows if their dot11WNMRqstRowStatus remains other than Active for longer
                than a period (recommend at least 5 minutes, RFC 2579). Or another recom-
                mended way is to delete older rows as needed based on their
                dot11WNMRqstTimeStamp values. This can be done by the agent as well as the
                manager. "
        ::= { dot11WNMRequest 2 }

dot11WNMRequestEntry OBJECT-TYPE
        SYNTAX Dot11WNMRequestEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the dot11WNMRequestTable Indexed by dot11WNMRqstIndex."
                INDEX { dot11WNMRqstIndex }
        ::= { dot11WNMRequestTable 1 }

Dot11WNMRequestEntry ::=
        SEQUENCE {
                dot11WNMRqstIndex                               Unsigned32,
```

```
            dot11WNMRqstRowStatus                          RowStatus,
            dot11WNMRqstToken                              OCTET STRING,
            dot11WNMRqstIfIndex                            InterfaceIndex,
            dot11WNMRqstType                               INTEGER,
            dot11WNMRqstTargetAdd                          MacAddress,
            dot11RRMRqstTimeStamp                          TimeTicks,
            dot11WNMRqstRndInterval                        Unsigned32,
            dot11WNMRqstDuration                           Unsigned32,
            dot11WNMRqstMcstGroup                          MacAddress,
            dot11WNMRqstMcstTrigCon                        OCTET STRING,
            dot11WNMRqstMcstRprtTimeout                    INTEGER,
            dot11WNMRqstMcstTrigTimeout                    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,
            dot11WNMRqstChanNumber                         INTEGER,
            dot11WNMRqstRegulatoryClass                    INTEGER,
            dot11WNMRqstChanNumber                         INTEGER,
            dot11WNMRqstDiagToken                          INTEGER,
            dot11WNMRqstDiagType                           INTEGER,
            dot11WNMRqstDiagTimeout                        INTEGER,
            dot11WNMRqstDiagBssid                          MacAddress,
            dot11WNMRqstDiagProfileId                      INTEGER,
            dot11WNMRqstDiag8021xCredentials               INTEGER,
            dot11WNMRqstLCILocIndParams                    OCTET STRING,
            dot11WNMRqstLCIChanList                        OCTET STRING,
            dot11WNMRqstLCIBcastRate                       INTEGER,
            dot11WNMRqstBssTransitQueryReason              INTEGER,
            dot11WNMRqstBssTransitReqMode                  OCTET STRING,
            dot11WNMRqstBssTransitDisocTimer               INTEGER,
            dot11WNMRqstBssTransitValidIterval             INTEGER,
            dot11WNMRqstBssTransitCandidateList            OCTET STRING,
            dot11WNMRqstColocInterfAutoEnable              TruthValue
            dot11WNMRqstColocInterfRptTimeout              INTEGER,
            dot11WNMRqstVendorSpecific                     OCTET STRING }

dot11WNMRqstIndex OBJECT-TYPE
       SYNTAX Unsigned32
       MAX-ACCESS not-accessible
       STATUS current
       DESCRIPTION
              "Index for WNM Request elements in dot11WNMRequestTable, greater than 0."
       ::= { dot11WNMRequestEntry 1 }

dot11WNMRqstRowStatus OBJECT-TYPE
       SYNTAX RowStatus
       MAX-ACCESS read-create
       STATUS current
       DESCRIPTION
              "The Row Status column of the current row, used for tracking status of an
              individual request. When this attribute is set to Active, AND a measure-
              ment request can be unambiguously created based on the parameters in the
              row, then the MLME may proceed to issue the request to its intended tar-
              gets when appropriate. If not, this attribute may be set to Not-ready imme-
```

```
                           diately to indicate parametric errors. However, it is the network managers
                           responsibility to correct the error. If the request is successfully issued
                           to the target STA, then the rowStatus is set to notInService."
                 REFERENCE
                           "Clause 7.3.2.21"
                 ::= { dot11WNMRequestEntry 2 }

     dot11WNMRqstToken OBJECT-TYPE
                 SYNTAX OCTET STRING
                 MAX-ACCESS read-create
                 STATUS current
                 DESCRIPTION
                           "This attribute indicates a unique string to identify this request. To
                           guarantee the uniqueness of this token across multiple network managers, it
                           is recommended that this token be prefixed with the IP address of the net-
                           work manager creating this row. This token is not necessarily equivalent to
                           the measurement tokens in WNM request frames."
                 ::= { dot11WNMRequestEntry 3 }


     dot11WNMRqstIfIndex OBJECT-TYPE
                 SYNTAX InterfaceIndex
                 MAX-ACCESS read-create
                 STATUS current
                 DESCRIPTION
                           "The ifIndex for this row of WNM Request to be issued on."
                 ::= { dot11WNMRequestEntry 4 }

     dot11WNMRqstType OBJECT-TYPE
                 SYNTAX INTEGER {
                           mcastDiagnostics(0),
                           locationCivic(1),
                           locationIdentifier(2),
                           event(3),
                           dignostic(4)
                           LocationConfiguration(5)
                           bssTransitionQuery(6)
                           bssTransitionRqst(7)
                           fbms(8)
                           ColocInterference(9)
                           }
                 MAX-ACCESS read-create
                 STATUS current
                 DESCRIPTION
                           "This attribute indicates the request type of this WNM request row."
                 ::= { dot11WNMRequestEntry 5 }

     dot11WNMRqstTargetAdd OBJECT-TYPE
                 SYNTAX MacAddress
                 MAX-ACCESS read-create
                 STATUS current
                 DESCRIPTION
                           "The MAC address of STA for this row of RRM Request is to be issued to. If
                           this attribute matches the MAC address of the dot11RRMRqstIfIndex, then
                           measurement request is for this STA itself to carry out."
                 ::= { dot11RRMRequestEntry 6 }

     dot11RRMRqstTimeStamp OBJECT-TYPE
                 SYNTAX TimeTicks
                 MAX-ACCESS read-only
                 STATUS current
                 DESCRIPTION
                           "This attribute indicates the SysUpTime Value the last time when the
                           dot11RRMRqstRowStatus is set to active or when this row is created the
                           first time. This attribute shall be set by this STA or AP automatically,
                           not by an SNMP manager."
                 ::= { dot11WNMRequestEntry 7 }

     dot11WNMRqstRndInterval OBJECT-TYPE
                 SYNTAX Unsigned32
                 UNITS "TUs"
                 MAX-ACCESS read-create
```

```
                    STATUS current
                    DESCRIPTION
                         "This attribute indicates the upper bound of the random delay to be used
                         prior to making the measurement, expressed in units of TUs. See 11.10.2."
                    DEFVAL { 0 }
                    ::= { dot11WNMRequestEntry 8 }

       dot11WNMRqstDuration OBJECT-TYPE
                    SYNTAX Unsigned32
                    UNITS "TUs"
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
                         "This attribute indicates the preferred or mandatory measurement duration
                         for this Measurement Request. This attribute is ignored if dot11WNMRqstType
                         = LCI Request or Measurement Pause."
                    DEFVAL { 0 }
                    ::= { dot11WNMRequestEntry 9 }

       dot11WNMRqstMcstGroup OBJECT-TYPE
                    SYNTAX MacAddress
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
                         "Multicast Group address indicates the MAC address of the multicast group
                         for which diagnostics are requested. The BSSID shall be set to the wild-
                         card BSSID when the measurement is to be performed on any muliticast group
                         on the operating channel. This attribute is only valid if the
                         dot11WNMRqstType is 10, indicating a maulticast diagnostic request, and is
                         ignored otherwise."
                    DEFVAL { 'FFFFFFFFFFFF'H }
                    ::= { dot11WNMRequestEntry 10 }

       dot11WNMMcstTrigCon OBJECT-TYPE
                    SYNTAX OCTET STRING (SIZE(1))
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
                         "This attribute indicates the trigger condition for the Multicast Diag-
                         nositic request."
                    ::= { dot11WNMRequestEntry 11 }

       dot11WNMRqstMcstRprtTimeout OBJECT-TYPE
                    SYNTAX INTEGER (1..255)
                    UNITS "100 TUs"
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
                         "This attribute indicates a time interval value in units of 100 TU to be
                         used as the threshold value for the Report Timeout trigger condition."
                    ::= { dot11WNMRequestEntry 12 }

       dot11WNMRqstMcstTrigTimeout OBJECT-TYPE
                    SYNTAX INTEGER (1..255)
                    UNITS "100 TUs"
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
                         "This attribute indicates the time interval value in units of 100 TU dur-
                         ing which a measuring STA does not generate further Multicast Triggered
                         Reports after a trigger condition has been met."
                    ::= { dot11WNMRequestEntry 13 }

       dot11WNMRqstLCRRqstSubject OBJECT-TYPE
                    SYNTAX INTEGER {
                         local(0),
                         remote(1)
                         }
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
                         "The attribute indicates the subject of the LCR request."
```

```
                            DEFVAL { 0 }
                 ::= { dot11WNMRequestEntry 14 }

        dot11WNMRqstLCRIntervalUnits OBJECT-TYPE
             SYNTAX INTEGER {
                     seconds(0),
                     minutes(1),
                     hours(2),
                     dot11RRMNeighborReportRowStatus }
             MAX-ACCESS read-create
             STATUS current
             DESCRIPTION
                     "This attribute indicates the units used in the LCR Service Interval."
             ::= { dot11WNMRequestEntry 15 }

        dot11WNMRqstLCRServiceInterval OBJECT-TYPE
             SYNTAX INTEGER (0..65535)
             MAX-ACCESS read-only
             STATUS current
             DESCRIPTION
                     "This attribute indicates the periodic interval requested for periodic
                     reporting of Location Civic Reports."
             ::= { dot11WNMRequestEntry 16 }


        dot11WNMRqstLIRRqstSubject OBJECT-TYPE
             SYNTAX INTEGER {
                     local(0),
                     remote(1)
                     }
             MAX-ACCESS read-create
             STATUS current
             DESCRIPTION
                     "The S M T R R M Config package is a set attribute indicates the subject of
                     attributes that shall be present if the STA supports the Radio Measurement
                     serviceLIR request."
                     DEFVAL { 0 }
             ::= { dot11WNMRequestEntry 17 }

        dot11WNMRqstLIRIntervalUnits OBJECT-TYPE
             SYNTAX INTEGER {
                     seconds(0),
                     minutes(1),
                     hours(2),
                     }
             MAX-ACCESS read-create
             STATUS current
             DESCRIPTION
                     "This attribute indicates the units used in the LIR Service Interval."
             ::= { dot11WNMRequestEntry 18 }

        dot11WNMRqstLIRServiceInterval OBJECT-TYPE
             SYNTAX INTEGER (0..65535)
             MAX-ACCESS read-only
             STATUS current
             DESCRIPTION
                     "This attribute indicates the periodic interval requested for periodic
                     reporting of Location Identifier Reports."
             ::= { dot11WNMRequestEntry 19 }

        dot11WNMRqstEventToken OBJECT-TYPE
             SYNTAX INTEGER (1..255)
             MAX-ACCESS read-create
             STATUS current
             DESCRIPTION
                     "This attribute indicates a unique string to identify this request."
             ::= { dot11WNMRequestEntry 20 }

        dot11WNMRqstEventType OBJECT-TYPE
             SYNTAX INTEGER {
                     transition(0),
                     rsna(1),
```

```
                    peerToPeer(2),
                    syslog(3),
                    vendorSpecific(221)
                    }
         MAX-ACCESS read-create
         STATUS current
         DESCRIPTION
                "This attribute indicates the request type of this WNM Event request."
         ::= { dot11WNMRequestEntry 21 }

dot11WNMRqstEventResponseLimit OBJECT-TYPE
         SYNTAX INTEGER {0..255)
         MAX-ACCESS read-create
         STATUS current
         DESCRIPTION
                "This attribute indicates the maximum number of requested Event Reports to
                be included in the Event Report Element."
         ::= { dot11WNMRequestEntry 22 }

dot11WNMRqstEventTargetBssid OBJECT-TYPE
         SYNTAX MacAddress
         MAX-ACCESS read-create
         STATUS current
         DESCRIPTION
                "This attribute is used to request that a Transition or RSNA Event Report
                includes the event entry when the target BSSID is equal to the indicated
                BSSID.  A transition event is a STA movement or attempted movement from one
                BSS (the source BSS) in one ESS to another BSS (the target BSS) within the
                same ESS. The BSSID shall be set to the wildcard BSSID when the transi-
                tions to any BSSID is requested."
         DEFVAL { 'FFFFFFFFFFFF'H }
         ::= { dot11WNMRequestEntry 23 }

dot11WNMRqstEventSourceBssid OBJECT-TYPE
         SYNTAX MacAddress
         MAX-ACCESS read-create
         STATUS current
         DESCRIPTION
                "This attribute is used to request that a Transition Event Report includes
                the transition event entry when the source BSSID is equal to the indicated
                BSSID.  A transition event is a STA movement or attempted movement from one
                BSS (the source BSS) in one ESS to another BSS (the target BSS) within the
                same ESS. The BSSID shall be set to the wildcard BSSID when the transi-
                tions from any BSSID is requested."
         DEFVAL { 'FFFFFFFFFFFF'H }
         ::= { dot11WNMRequestEntry 24 }

dot11WNMRqstEventTransitTimeThresh OBJECT-TYPE
         SYNTAX INTEGER (0..65535)
         UNITS "TUs"
         MAX-ACCESS read-create
         STATUS current
         DESCRIPTION
                "This attribute indicates a value representing the transition time to be
                used as the threshold value for the Transition Time condition in TUs. The
                Transition Time is defined in 11.20.3.2"
         ::= { dot11WNMRequestEntry 25 }

dot11WNMRqstEventTransitMatchValue OBJECT-TYPE
         SYNTAX OCTET STRING (SIZE(1))
         MAX-ACCESS read-create
         STATUS current
         DESCRIPTION
                "This attribute indicates a request for the specified transition results
                that match the bit descriptions of this field.  b0 indicates match when
                transition is successful.  b1 indicates match when transition fails."
         ::= { dot11WNMRequestEntry 26 }

dot11WNMRqstEventFreqTransitCountThresh OBJECT-TYPE
         SYNTAX INTEGER {0..255)
         MAX-ACCESS read-create
         STATUS current
```

```
                    DESCRIPTION
                            "This attribute indicates the minimum number of matching transitions
                            detected in the measurement duration to generate a Transition Event
                            Report."
                    ::= { dot11WNMRequestEntry 27 }

        dot11WNMRqstEventFreqTransitInterval OBJECT-TYPE
                    SYNTAX INTEGER (0..65535)
                    UNITS "TUs"
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
                            "This attribute indicates the sliding window time interval, in TUs, during
                            which the STA detects mathing transitions to determine if the Frequent
                            Transition Count Threshold is exceeded in order to generate a Transition
                            Event Report. "
                    ::= { dot11WNMRequestEntry 28 }

        dot11WNMRqstEventRsnaAuthType OBJECT-TYPE
                    SYNTAX OCTET STRING (SIZE(4))
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
                            "This attribute indicates one of the AKM suite selectors defined in Table
                            7-34 in 7.3.2.25.2."
                    ::= { dot11WNMRequestEntry 29 }

        dot11WNMRqstEapType OBJECT-TYPE
                    SYNTAX INTEGER {0..255)
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
                            "This attribute indicates a value that identifies a single EAP method and
                            is set to any valid IANA assigned EAP type as defined at http://
                            www.iana.org/assignments/eap-numbers."
                    ::= { dot11WNMRequestEntry 30 }

        dot11WNMRqstEapVendorId OBJECT-TYPE
                    SYNTAX OCTET STRING (SIZE(0..3))
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
                            "This attribute indicates a value that identifies the EAP Vendor. The EAP
                            Vendor ID field is included when EAP Type field is set to 254, and is
                            excluded otherwise."
                    ::= { dot11WNMRequestEntry 31 }

        dot11WNMRqstEapVendorType OBJECT-TYPE
                    SYNTAX OCTET STRING (SIZE(0..4))
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
                            "This attribute indicates value that identifies the EAP Type as defined by
                            the vendor. The EAP Vendor Type field is included when EAP Type field is
                            set to 254, and is excluded otherwise."
                    ::= { dot11WNMRequestEntry 32 }

        dot11WNMRqstEventRsnaMatchValue OBJECT-TYPE
                    SYNTAX OCTET STRING (SIZE(1))
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
                            "This attribute indicates a request for the specified transition results
                            that match the bit descriptions of this field.   b0 indicates match when
                            RSNA is successful.  b1 indicates match when RSNA fails."
                    ::= { dot11WNMRequestEntry 33 }

        dot11WNMRqstEventPeerMacAddress OBJECT-TYPE
                    SYNTAX MacAddress
                    MAX-ACCESS read-create
                    STATUS current
                    DESCRIPTION
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```
                        "This attribute is used to request that a Peer-to-peer Event Report
                        includes the transition event entry when the MAC address of the peer STA or
                        IBSS BSSID is equal to the indicated MAC address.   The MAC address shall
                        be set to the wildcard BSSID when the transitions from any peer STA or IBSS
                        BSSID is requested."
            DEFVAL { 'FFFFFFFFFFFF'H }
            ::= { dot11WNMRequestEntry 34 }

    dot11WNMRqstRegulatoryClass OBJECT-TYPE
            SYNTAX INTEGER(1..255)
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                        "This attribute indicates the channel set for this WNM request. Country,
                        Regulatory Class and Channel Number together specify the channel frequency
                        and spacing for this measurement request. Valid values of Regulatory Class
                        are shown in Annex J."
            REFERENCE
                        "Annex J"
            ::= { dot11WNMRequestEntry 35 }

    dot11WNMRqstChanNumber OBJECT-TYPE
            SYNTAX INTEGER (1..255)
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                        "This attribute indicates the current operating channel for this WNM
                        request. The Channel Number is only defined within the indicated Regula-
                        tory Class for this WNM request."
            ::= { dot11WNMRequestEntry 36 }

    dot11WNMRqstDiagToken OBJECT-TYPE
            SYNTAX INTEGER (1..255)
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                        "This attribute indicates a unique string to identify this request."
            ::= { dot11WNMRequestEntry 37 }

    dot11WNMRqstDiagType OBJECT-TYPE
            SYNTAX INTEGER {
                    cancelRequest(0),
                    manufacturerInfoStaRep(1),
                    configurationProfile(2),
                    associationDiag(3),
                    ieee8021xAuthDiag(4),
                    vendorSpecific(221)
                    }
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                        "This attribute indicates the request type of this WNM Diagnostic request."
            ::= { dot11WNMRequestEntry 38 }

    dot11WNMRqstDiagTimeout OBJECT-TYPE
            SYNTAX INTEGER (0..65535)
            UNITS "seconds"
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                        "This attribute indicates a value representing the time interval after a
                        Diagnostic Report is generated during which no additional Diagnostic
                        Reports shall be sent."
            ::= { dot11WNMRequestEntry 39 }

    dot11WNMRqstDiagBssid OBJECT-TYPE
            SYNTAX MacAddress
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                        "This attribute indicates a request for a Diagnostic Report from the indi-
                        cated BSSID. The BSSID shall be set to the wildcard BSSID when diagnostics
```

```
                            from any BSSID is requested."
                DEFVAL { 'FFFFFFFFFFFF'H }
                ::= { dot11WNMRequestEntry 40 }

    dot11WNMRqstDiagProfileId OBJECT-TYPE
            SYNTAX INTEGER (1..255)
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                    "This attribute indicates a unique identifier for referencing a configura-
                    tion profile available on a device. The value of the identifier can be any
                    arbitrary value, as long as it is uniquely associated to a single configu-
                    ration profile on the device sending the identifier."
            ::= { dot11WNMRequestEntry 41 }

    dot11WNMRqstDiag8021xCredentials OBJECT-TYPE
            SYNTAX INTEGER {
                    none(0),
                    pre-sharedKey(1),
                    configurationProfile(2),
                    usernamePassword(3),
                    otherCertificate(4),
                    oneTimePassword(5),
                    token(6),
                    certificateUsernamePasswword(7),
                    certificateToken(8),
                    }
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                    "This attribute indicates the tyoe of credential used for the 8021x authen-
                    tication."
            ::= { dot11WNMRequestEntry 42 }

    dot11WNMRqstLCILocIndParams OBJECT-TYPE
            SYNTAX OCTET STRING (SIZE(17))
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                    "This attribute indicates STA Location reporting characteristics. The for-
                    mat of these Location Indication Parameters are detailed in 7.3.2.66.2"
            ::= { dot11WNMRequestEntry 43 }

    dot11WNMRqstLCIChanList OBJECT-TYPE
            SYNTAX OCTET STRING (SIZE(0..255))
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                    "This attribute lists location reporting channel information for this LCI
                    request. Zero length is the null default for this attribute. Each pair of
                    octets indicates a different regulatory class and channel nu,mber for this
                    request. The detailed format for this list of channels ls described in
                    7.3.2.66.3"
            DEFVAL { ''H }
            ::= { dot11WNMRequestEntry 44 }

    dot11WNMRqstLCIBcastRate OBJECT-TYPE
            SYNTAX INTEGER (0..65535)
            UNITS "0.5Mbps"
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                    "This attribute indicates the data rate, in 0.5Mb/s units, at which the STA
                    broadcasts Location Track Notification frames."
            ::= { dot11WNMRequestEntry 45 }

    dot11WNMRqstBssTransitQueryReason OBJECT-TYPE
            SYNTAX INTEGER {
                    unspecified(0),
                    excessiveFrameLossRatesPoorConditions(1),
                    excessiveDelayForCurrentTrafficStreams(2),
                    insufficientQosCapacityForCurrentTrafficStreams(3),
```

```
                    firstAssociationToEss(4),
                    loadBalancing(5),
                    betteApFound(6),
                    deauthenticatedDisassociatedFromPreviousAp(7),
                    certificateToken(8),
                    apFailedIeee8021XEapAuthentication(9),
                    apFailed4wayHandshake(10),
                    excessiveDataMICFailures(11),
                    exceededFrameTransmissionRetryLimit(12),
                    ecessiveBroadcastDisassociations(13),
                    excessiveBroadcastDeauthentications(14),
                    previousTransition Failed(15),
                    }
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates the reason for the BSS Transition Query. The
                format for this list of reasons is further detailed in 7.3.2.63.2."
        ::= { dot11WNMRequestEntry 46 }

   dot11WNMRqstBssTransitReqMode OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(1))
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates the type of BSS request transition.  b0 indi-
                cates the Prferred Candidate list is included in this frame.  b1 indicates
                sn sbridged format for all BSSIDs not listed in this frame. b2 indicates
                that the STA will be dissassociated for the current A. The format for this
                field is detailed in 7.4.11.8."
        ::= { dot11WNMRequestEntry 47 }

   dot11WNMRqstBssTransitDisocTimer OBJECT-TYPE
        SYNTAX INTEGER (1..255)
        UNITS "TBTTs"
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates  the number of beacon transmission times (TBTTs)
                until the serving AP sends a Disassociation frame to this STA. If the Dis-
                association Imminent bit of the Request Mode field is set to 0, this field
                is ignored."
        ::= { dot11WNMRequestEntry 48 }

   dot11WNMRqstBssTransitValidityInterval OBJECT-TYPE
        SYNTAX INTEGER (1..255)
        UNITS "TBTTs"
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates  the number of beacon transmission times (TBTTs)
                until this recommendation of this BSS transition candidate is no longer
                valid."
        ::= { dot11WNMRequestEntry 49 }

   dot11WNMRqstBssTransitCandidateList OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(0..2304))
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute lists one or more Neighbor Report elements described in
                7.3.2.37. If the STA has no Transition Candidate information in response to
                the BSS Transition Management Query frame, the candidate list size is set
                to 0. "
        ::= { dot11WNMRequestEntry 50 }

   dot11WNMRqstColocInterfAutoEnable OBJECT-TYPE
        SYNTAX TruthValue
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute, when TRUE, indicates that the requesting STA requests the
```

```
                          receiving STA to send the Co-located Interference Response frames automati-
                          cally with the Report Period interval, as defined in 7.4.11.13, or when the
                          STA detects a change in the co-located interference."
              ::= { dot11WNMRequestEntry 51 }

    dot11WNMRqstColocInterfRptTimeout OBJECT-TYPE
              SYNTAX INTEGER (0..127)
              UNITS "100 TUs"
              MAX-ACCESS read-create
              STATUS current
              DESCRIPTION
                      "This attribute indicates the minimum duration between two consecutive Co-
                      located Interference Response frames from the reporting STA."
              ::= { dot11WNMRequestEntry 52 }

    dot11WNMRqstVendorSpecific OBJECT-TYPE
              SYNTAX OCTET STRING (SIZE(0..255))
              MAX-ACCESS read-create
              STATUS current
              DESCRIPTION
                      "This attribute provides an envelope for any optional vendor specific sub-
                      elements which may be included in a WNM equest element. Zero length is the
                      null default for this attribute."
              DEFVAL { ''H }
              ::= { dot11WNMRequestEntry 53}

    -- ********************************************************************
    -- * End of dot11WNMRequest TABLE
    -- ********************************************************************

    -- ********************************************************************
    -- * Wireless Network Management Reports:
    -- * Report tables contain WNM reports received by this STA or
    -- * results of WNM requests performed by this STA.
    -- ********************************************************************

    dot11WNMReport OBJECT IDENTIFIER ::= { dot11WirelessNetworkManagement 2 }

    -- ********************************************************************
    -- * dot11WNMVendorSpecificReport TABLE
    -- ********************************************************************
              dot11WNMVendorSpecificReportTable OBJECT-TYPE
              SYNTAX SEQUENCE OF Dot11WNMVendorSpecificReportEntry
              MAX-ACCESS not-accessible
              STATUS current
              DESCRIPTION
                      "Group contains the current list of Vendor Specific reports that have been
                      received by the MLME. The report tables shall be maintained as FIFO to pre-
                      serve freshness, thus the rows in this table can be deleted for memory con-
                      straints or other implementation constraints determined by the vendor. New
                      rows shall have different RprtIndex values than those deleted within the
                      range limitation of the index. One easy way is to monotonically increase
                      RprtIndex for new reports being written in the table."
              ::= { dot11WNMReport 1 }

    dot11WNMVendorSpecificReportEntry OBJECT-TYPE
              SYNTAX Dot11WNMVendorSpecificReportEntry
              MAX-ACCESS not-accessible
              STATUS current
              DESCRIPTION
                      "An entry in the dot11WNMVendorSpecificReportTable Indexed by
                      dot11WNMVendorSpecificRprtIndex."
              INDEX { dot11WNMVendorSpecificRprtIndex }
              ::= { dot11WNMVendorSpecificReportTable 1 }

    Dot11WNMVendorSpecificReportEntry ::=
              SEQUENCE {
                      dot11WNMVendorSpecificRprtIndex                 Unsigned32,
                      dot11WNMVendorSpecificRprtRqstToken             OCTET STRING,
                      dot11WNMVendorSpecificRprtIfIndex              InterfaceIndex,
                      dot11WNMVendorSpecificRprtContent             OCTET STRING }
```

13

```
dot11WNMVendorSpecificRprtIndex OBJECT-TYPE
        SYNTAX Unsigned32
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Index for Vendor Specific Report elements in
                dot11WNMVendorSpecificReportTable, greater than 0."
        ::= { dot11WNMVendorSpecificReportEntry 1 }

dot11WNMVendorSpecificRprtRqstToken OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This attribute indicates the request token that was indicated in the WNM
                request that generated this measurement report. This should be an exact
                match to the original dot11WNMRqstToken attribute. Note that there may be
                multiple entries in the table that match this value since a single request
                may generate multiple WNM reports."
        ::= { dot11WNMVendorSpecificReportEntry 2 }

dot11WNMVendorSpecificRprtIfIndex OBJECT-TYPE
        SYNTAX InterfaceIndex
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "The ifIndex for this row of WNMVendorSpecific Report has been received
                on."
        ::= { dot11WNMVendorSpecificReportEntry 3 }

dot11WNMVendorSpecificRprtContent OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(0..255))
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute provides an envelope for all the vendor specific sub-ele-
                ments which may be included in a WNM Vendor Specific request element. Zero
                length is the null default for this attribute."
        DEFVAL { ''H }
        ::= { dot11WNMVendorSpecificReportEntry 4 }

-- ********************************************************************
-- * End of dot11WNMVendorSpecificReport TABLE
-- ********************************************************************

-- ********************************************************************
-- * dot11WNMMulticastDiagnosticReport TABLE
-- ********************************************************************
        dot11WNMMulticastDiagnosticReportTable OBJECT-TYPE
        SYNTAX SEQUENCE OF Dot11WNMMulticastDiagnosticReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Group contains the current list of Multicast Diagnostic reports that have
                been received by the MLME. The report tables shall be maintained as FIFO to
                preserve freshness, thus the rows in this table can be deleted for memory
                constraints or other implementation constraints determined by the vendor.
                New rows shall have different RprtIndex values than those deleted within
                the range limitation of the index. One easy way is to monotonically
                increase RprtIndex for new reports being written in the table."
        ::= { dot11WNMReport 2 }

dot11WNMMulticastDiagnosticReportEntry OBJECT-TYPE
        SYNTAX Dot11WNMMulticastDiagnosticReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the dot11WNMMulticastDiagnosticReportTable Indexed by
                dot11WNMMulticastDiagnosticRprtIndex."
        INDEX { dot11WNMMulticastDiagnosticRprtIndex }
        ::= { dot11WNMMulticastDiagnosticReportTable 1 }
```

```
Dot11WNMMulticastDiagnosticReportEntry ::=
        SEQUENCE {
                dot11WNMMulticastDiagnosticRprtIndex               Unsigned32,
                dot11WNMMulticastDiagnosticRprtRqstToken           OCTET STRING,
                dot11WNMMulticastDiagnosticRprtIfIndex             InterfaceIndex,
                dot11WNMMulticastDiagnosticRprtMeasurementTime     TSFType,
                dot11WNMMulticastDiagnosticRprtDuration            Unsigned32,
                dot11WNMMulticastDiagnosticRprtMcstGroup           MacAddress,
                dot11WNMMulticastDiagnosticRprtReason              OCTET STRING,
                dot11WNMMulticastDiagnosticRprtRcvdMsduCount       Unsigned32,
                dot11WNMMulticastDiagnosticRprtFirstSeqNumber      INTEGER,
                dot11WNMMulticastDiagnosticRprtLastSeqNumber       INTEGER,
                dot11WNMMulticastDiagnosticRprtMcstRate            INTEGER }

dot11WNMMulticastDiagnosticRprtIndex OBJECT-TYPE
        SYNTAX Unsigned32
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Index for Multicast Diagnostic Report elements in
                dot11WNMMulticastDiagnosticReportTable, greater than 0."
        ::= { dot11WNMMulticastDiagnosticReportEntry 1 }

dot11WNMMulticastDiagnosticRprtRqstToken OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This attribute indicates the request token that was indicated in the WNM
                request that generated this measurement report. This should be an exact
                match to the original dot11WNMRqstToken attribute. Note that there may be
                multiple entries in the table that match this value since a single request
                may generate multiple WNM reports."
        ::= { dot11WNMMulticastDiagnosticReportEntry 2 }

dot11WNMMulticastDiagnosticRprtIfIndex OBJECT-TYPE
        SYNTAX InterfaceIndex
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "The ifIndex for this row of WNMMulticastDiagnostic Report has been
                received on."
        ::= { dot11WNMMulticastDiagnosticReportEntry 3 }

dot11WNMMulticastDiagnosticRprtMeasurementTime OBJECT-TYPE
        SYNTAX TSFType
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This attribute indicates the TSF value at the time when the
                measurement started."
        ::= { dot11WNMMulticastDiagnosticReportEntry 4 }

dot11WNMMulticastDiagnosticRprtDuration OBJECT-TYPE
        SYNTAX Unsigned32
        UNITS "TUs"
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates the actual duration used for this Measurement
                Request. This attribute is ignored if dot11WNMRqstType = LCI Request or
                Measurement Pause."
        DEFVAL { 0 }
        ::= { dot11WNMMulticastDiagnosticReportEntry 5 }

dot11WNMMulticastDiagnosticRprtMcstGroup OBJECT-TYPE
        SYNTAX MacAddress
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "Multicast Group address indicates the MAC address of the multicast group
                for for this report element."
```

```
                DEFVAL { 'FFFFFFFFFFFF'H }
                ::= { dot11WNMMulticastDiagnosticReportEntry 6 }

dot11WNMMulticastDiagnosticRprtReason OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(1))
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates the reason why the measuring STA sent the Multi-
                cast Diagnostics report.   b0 indicates Report Timeout Trigger.  b1 indi-
                cates the Performance Measurement.  These are defined further in
                7.3.22.10a."
        ::= { dot11WNMMulticastDiagnosticReportEntry 7 }

dot11WNMMulticastDiagnosticRprtRcvdMsduCount OBJECT-TYPE
        SYNTAX Unsigned32
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates the total number of multicast MSDUs with the
                indicated Multicast MAC Address that were received during the Measurement
                Duration. For a triggered multicast diagnostics measurement this is the
                total number of frames received with the indicated Multicast MAC Address."
        DEFVAL { 0 }
        ::= { dot11WNMMulticastDiagnosticReportEntry 8 }

dot11WNMMulticastDiagnosticRprtFirstSeqNumber OBJECT-TYPE
        SYNTAX INTEGER (0..65535)
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This attribute indicates the twelve least significant bits of the First
                Sequence Number field contain the IEEE 802.11 sequence number of the first
                frame received with destination address equal to the value in the Multi-
                cast MAC address field during the measurement period. The four most signif-
                icant bits of the First Sequence Number field are set to zero.This field is
                used only if the multicast reporting reason is performance measurement;
                otherwise, it is set to 0."
                DEFVAL { 0 }
        ::= { dot11WNMMulticastDiagnosticReportEntry 9 }

dot11WNMMulticastDiagnosticRprtLastSeqNumber OBJECT-TYPE
        SYNTAX INTEGER (0..65535)
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This attribute indicates the twelve least significant bits of the Last
                Sequence Number field is the IEEE 802.11 sequence number of the last frame
                received with destination address equal to the value in the Multicast MAC
                address field during the measurement period. The four most significant bits
                of the Last Sequence Number field are set to zero. This field is used only
                if the multicast reporting reason is performance measurement; otherwise, it
                is set to 0."
                DEFVAL { 0 }
        ::= { dot11Groups 39 dot11WNMMulticastDiagnosticReportEntry 10 }

dot11WNMMulticastDiagnosticRprtMcstRate OBJECT-TYPE
        SYNTAX INTEGER (0..65535)
        UNITS "0.5Mbps"
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates  the data rate, in 0.5 Mb/s units, at which the
                STA requests to receive group addressed frames. The Multicast Rate field is
                encoded with the MSB set to 1 to indicate that the data rate is in the
                basic rate set, and set to 0 to indicate that the data rate is not in the
                basic rate set. The remaining 15 bit value is multiplied by 0.5 Mb/s to
                indicate the data rate. The Multicast Rate field is set to 0 by the STA to
                indicate that it has not received a group addressed frame with a valid FCS
                during the measurement period."
        ::= { dot11WNMMulticastDiagnosticReportEntry 11 }
```

```
-- *********************************************************************
-- * End of dot11WNMMulticastDiagnosticReport TABLE
-- *********************************************************************

-- *********************************************************************
-- * dot11WNMLocationCivicReport TABLE
-- *********************************************************************
        dot11WNMLocationCivicReportTable OBJECT-TYPE
        SYNTAX SEQUENCE OF Dot11WNMLocationCivicReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Group contains the current list of Location Civic reports that have been
                received by the MLME. The report tables shall be maintained as FIFO to pre-
                serve freshness, thus the rows in this table can be deleted for memory con-
                straints or other implementation constraints determined by the vendor. New
                rows shall have different RprtIndex values than those deleted within the
                range limitation of the index. One easy way is to monotonically increase
                RprtIndex for new reports being written in the table."
        ::= { dot11WNMReport 3 }

dot11WNMLocationCivicReportEntry OBJECT-TYPE
        SYNTAX Dot11WNMLocationCivicReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the dot11WNMLocationCivicReportTable Indexed by
                dot11WNMLocationCivicRprtIndex."
        INDEX { dot11WNMLocationCivicRprtIndex }
        ::= { dot11WNMLocationCivicReportTable 1 }

Dot11WNMLocationCivicReportEntry ::=
        SEQUENCE {
                dot11WNMLocationCivicRprtIndex                    Unsigned32,
                dot11WNMLocationCivicRprtRqstToken               OCTET STRING,
                dot11WNMLocationCivicRprtIfIndex                 InterfaceIndex,
                dot11WNMLocationCivicRprtContent                 OCTET STRING,
                dot11WNMLocationCivicRprtLocXAccuracy            INTEGER,
                dot11WNMLocationCivicRprtLocYAccuracy            INTEGER,
                dot11WNMLocationCivicRprtLocZAccuracy            INTEGER,
                dot11WNMLocationCivicRprtCivicLocation           OCTET STRING }

dot11WNMLocationCivicRprtIndex OBJECT-TYPE
        SYNTAX Unsigned32
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Index for Location Civic Report elements in
                dot11WNMLocationCivicReportTable, greater than 0."
        ::= { dot11WNMLocationCivicReportEntry 1 }

dot11WNMLocationCivicRprtRqstToken OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This attribute indicates the request token that was indicated in the WNM
                request that generated this measurement report. This should be an exact
                match to the original dot11WNMRqstToken attribute. Note that there may be
                multiple entries in the table that match this value since a single request
                may generate multiple WNM reports."
        ::= { dot11WNMLocationCivicReportEntry 2 }

dot11WNMLocationCivicRprtIfIndex OBJECT-TYPE
        SYNTAX InterfaceIndex
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "The ifIndex for this row of WNMLocationCivic Report has been received on."
        ::= { dot11WNMLocationCivicReportEntry 3 }
```

```
dot11WNMLocationCivicRprtLocXAccuracy OBJECT-TYPE
        SYNTAX INTEGER (0..65535)
        UNITS "0.1M"
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates an estimated accuracy in the X-dimension in 0.1
                meter increments, defined by a little endian 16 bit unsigned integer. For
                example, an accuracy estimate of +/- 5 meters is represented by the number
                X'32'. If the location accuracy estimate in the X-dimension is unknown the
                field is set to 65535."
                DEFVAL { 65535 }
        ::= { dot11WNMLocationCivicReportEntry 4 }

dot11WNMLocationCivicRprtLocYAccuracy OBJECT-TYPE
        SYNTAX INTEGER (0..65535)
        UNITS "0.1M"
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates an estimated accuracy in the Y-dimension in 0.1
                meter increments, defined by a little endian 16 bit unsigned integer. For
                example, an accuracy estimate of +/- 5 meters is represented by the number
                X'32'. If the location accuracy estimate in the Y-dimension is unknown the
                field is set to 65535."
                DEFVAL { 65535 }
        ::= { dot11WNMLocationCivicReportEntry 5 }

dot11WNMLocationCivicRprtLocZAccuracy OBJECT-TYPE
        SYNTAX INTEGER (0..65535)
        UNITS "0.1M"
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates an estimated accuracy in the Z-dimension in 0.1
                meter increments, defined by a little endian 16 bit unsigned integer. For
                example, an accuracy estimate of +/- 5 meters is represented by the number
                X'32'. If the location accuracy estimate in the Z-dimension is unknown the
                field is set to 65535."
                DEFVAL { 65535 }
        ::= { dot11WNMLocationCivicReportEntry 6 }

dot11WNMLocationCivicRprtCivicLocation OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates a variable octet field in wich the format of the
                data is defined in RFC 4776."
        ::= { dot11WNMLocationCivicReportEntry 7 }

-- ********************************************************************
-- * End of dot11WNMLocationCivicReport TABLE
-- ********************************************************************

-- ********************************************************************
-- * dot11WNMLocationIdentifierReport TABLE
-- ********************************************************************
        dot11WNMLocationIdentifierReportTable OBJECT-TYPE
        SYNTAX SEQUENCE OF Dot11WNMLocationIdentifierReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Group contains the current list of Location Identifier reports that have
                been received by the MLME. The report tables shall be maintained as FIFO to
                preserve freshness, thus the rows in this table can be deleted for memory
                constraints or other implementation constraints determined by the vendor.
                New rows shall have different RprtIndex values than those deleted within
                the range limitation of the index. One easy way is to monotonically
                increase RprtIndex for new reports being written in the table."
        ::= { dot11WNMReport 4 }
```

```
dot11WNMLocationIdentifierReportEntry OBJECT-TYPE
        SYNTAX Dot11WNMLocationIdentifierReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the dot11WNMLocationIdentifierReportTable Indexed by
                dot11WNMLocationIdentifierRprtIndex."
        INDEX { dot11WNMLocationIdentifierRprtIndex }
        ::= { dot11WNMLocationIdentifierReportTable 1 }

Dot11WNMLocationIdentifierReportEntry ::=
        SEQUENCE {
                dot11WNMLocationIdentifierRprtIndex                 Unsigned32,
                dot11WNMLocationIdentifierRprtRqstToken             OCTET STRING,
                dot11WNMLocationIdentifierRprtIfIndex               InterfaceIndex,
                dot11WNMLocationIdentifierRprtPublicIdUri           OCTET STRING }

dot11WNMLocationIdentifierRprtIndex OBJECT-TYPE
        SYNTAX Unsigned32
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Index for Location Identifier Report elements in
                dot11WNMLocationIdentifierReportTable, greater than 0."
        ::= { dot11WNMLocationIdentifierReportEntry 1 }

dot11WNMLocationIdentifierRprtRqstToken OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This attribute indicates the request token that was indicated in the WNM
                request that generated this measurement report. This should be an exact
                match to the original dot11WNMRqstToken attribute. Note that there may be
                multiple entries in the table that match this value since a single request
                may generate multiple WNM reports."
        ::= { dot11WNMLocationIdentifierReportEntry 2 }

dot11WNMLocationIdentifierRprtIfIndex OBJECT-TYPE
        SYNTAX InterfaceIndex
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "The ifIndex for this row of WNMLocationIdentifier Report has been received
                on."
        ::= { dot11WNMLocationIdentifierReportEntry 3 }

dot11WNMLocationIdentifierRprtPublicIdUri OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates a variable octet field in URI (aka URL) format,
                provided to comply with RFC 3693."
        ::= { dot11WNMLocationIdentifierReportEntry 4 }

-- ********************************************************************
-- * End of dot11WNMLocationIdentifierReport TABLE
-- ********************************************************************

-- ********************************************************************
-- * dot11WNMEventTransitReport TABLE
-- ********************************************************************
        dot11WNMEventTransitReportTable OBJECT-TYPE
        SYNTAX SEQUENCE OF Dot11WNMEventTransitReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Group contains the current list of Transition Event reports that have been
                received by the MLME. The report tables shall be maintained as FIFO to pre-
                serve freshness, thus the rows in this table can be deleted for memory con-
                straints or other implementation constraints determined by the vendor. New
```

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                    rows shall have different RprtIndex values than those deleted within the
                    range limitation of the index. One easy way is to monotonically increase
                    RprtIndex for new reports being written in the table."
          ::= { dot11WNMReport 5 }

dot11WNMEventTransitReportEntry OBJECT-TYPE
          SYNTAX Dot11WNMEventTransitReportEntry
          MAX-ACCESS not-accessible
          STATUS current
          DESCRIPTION
                    "An entry in the dot11WNMEventTransitReportTable Indexed by
                    dot11WNMEventTransitRprtIndex."
          INDEX { dot11WNMEventTransitRprtIndex }
          ::= { dot11WNMEventTransitReportTable 1 }

Dot11WNMEventTransitReportEntry ::=
          SEQUENCE {
                    dot11WNMEventTransitRprtIndex                      Unsigned32,
                    dot11WNMEventTransitRprtRqstToken                  OCTET STRING,
                    dot11WNMEventTransitRprtIfIndex                    InterfaceIndex,
                    dot11WNMEventTransitRprtSourceBssid                MacAddress,
                    dot11WNMEventTransitRprtTargetBssid                MacAddress,
                    dot11WNMEventTransitRprtTransitTime                INTEGER,
                    dot11WNMEventTransitRprtTransitReason              INTEGER,
                    dot11WNMEventTransitRprtTransitResult              INTEGER,
                    dot11WNMEventTransitRprtSourceRCPI                 INTEGER,
                    dot11WNMEventTransitRprtSourceRSNI                 INTEGER,
                    dot11WNMEventTransitRprtTargetRCPI                 INTEGER,
                    dot11WNMEventTransitRprtTargetRSNI                 INTEGER }

dot11WNMEventTransitRprtIndex OBJECT-TYPE
          SYNTAX Unsigned32
          MAX-ACCESS not-accessible
          STATUS current
          DESCRIPTION
                    "Index for Transition Event Report elements in
                    dot11WNMEventTransitReportTable, greater than 0."
          ::= { dot11WNMEventTransitReportEntry 1 }

dot11WNMEventTransitRprtRqstToken OBJECT-TYPE
          SYNTAX OCTET STRING
          MAX-ACCESS read-only
          STATUS current
          DESCRIPTION
                    "This attribute indicates the request token that was indicated in the WNM
                    request that generated this measurement report. This should be an exact
                    match to the original dot11WNMRqstToken attribute. Note that there may be
                    multiple entries in the table that match this value since a single request
                    may generate multiple WNM reports."
          ::= { dot11WNMEventTransitReportEntry 2 }

dot11WNMEventTransitRprtIfIndex OBJECT-TYPE
          SYNTAX InterfaceIndex
          MAX-ACCESS read-only
          STATUS current
          DESCRIPTION
                    "The ifIndex for this row of WNMEventTransit Report has been received on."
          ::= { dot11WNMEventTransitReportEntry 3 }

dot11WNMEventTransitRprtSourceBssid OBJECT-TYPE
          SYNTAX MacAddress
          MAX-ACCESS read-create
          STATUS current
          DESCRIPTION
                    "This attribute indicates the source BSSID for the reported transition
                    event."
          ::= { dot11WNMEventTransitReportEntry 4 }

dot11WNMEventTransitRprtTargetBssid OBJECT-TYPE
          SYNTAX MacAddress
          MAX-ACCESS read-create
          STATUS current
```

```
                   DESCRIPTION
                           "This attribute indicates the target BSSID for the reported transition
                           event."
                   ::= { dot11WNMEventTransitReportEntry 5 }

       dot11WNMEventTransitRprtTransitTime OBJECT-TYPE
                   SYNTAX INTEGER (0..65535)
                   UNITS "TUs"
                   MAX-ACCESS read-create
                   STATUS current
                   DESCRIPTION
                           "This attribute indicates the transition time for the reported transition
                           event in TUs. The Transition time is defined as the time difference between
                           the starting time and the ending time of a transition between APs, even if
                           the transition results in remaining on the same AP. Start and end times for
                           a transition event are defined in 11.20.3.2"
                   ::= { dot11WNMEventTransitReportEntry 6 }

       dot11WNMEventTransitRprtTransitReason OBJECT-TYPE
                   SYNTAX INTEGER {
                           unspecified(0),
                           excessiveFrameLossRatesPoorConditions(1),
                           excessiveDelayForCurrentTrafficStreams(2),
                           insufficientQosCapacityForCurrentTrafficStreams(3),
                           firstAssociationToEss(4),
                           loadBalancing(5),
                           betteApFound(6),
                           deauthenticatedDisassociatedFromPreviousAp(7),
                           certificateToken(8),
                           apFailedIeee8021XEapAuthentication(9),
                           apFailed4wayHandshake(10),
                           excessiveDataMICFailures(11),
                           exceededFrameTransmissionRetryLimit(12),
                           ecessiveBroadcastDisassociations(13),
                           excessiveBroadcastDeauthentications(14),
                           previousTransition Failed(15),
                           }
                   MAX-ACCESS read-create
                   STATUS current
                   DESCRIPTION
                           "This attribute indicates the reason for the reported BSS Transition event.
                           The  format for this list of reasons is further detailed in 7.3.2.63.2."
                   ::= { dot11WNMEventTransitReportEntry 7 }

       dot11WNMEventTransitRprtTransitResult OBJECT-TYPE
                   SYNTAX INTEGER (0..65535)
                   UNITS "TUs"
                   MAX-ACCESS read-create
                   STATUS current
                   DESCRIPTION
                           "This attribute indicates the result of the attempted transition and is set
                           to one of the Status Codes specified in Table7-23 in 7.3.1.9."
                   ::= { dot11WNMEventTransitReportEntry 8 }

       dot11WNMEventTransitRprtSourceRCPI OBJECT-TYPE
                   SYNTAX INTEGER(0..255)
                   MAX-ACCESS read-only
                   STATUS current
                   DESCRIPTION
                           "This attribute indicates the received channel power of the most recently
                           measured frame from the Source BSSID before the STA reassociates to the
                           Target BSSID. The Source RCPI is reported in dBm, as defined in the RCPI
                           measurement clause for the PHY Type."
                   ::= { dot11WNMEventTransitReportEntry 9 }

       dot11WNMEventTransitRprtSourceRSNI OBJECT-TYPE
                   SYNTAX INTEGER(0..255)
                   UNITS "0.5 dB"
                   MAX-ACCESS read-only
                   STATUS current
                   DESCRIPTION
                           "This attribute indicates the received signal to noise indication of the
```

```
                                most recently measured frame from the Source BSSID before the STA reassoci-
                                ates to the Target BSSID. The Source RSNI is reported in dB, as defined in
                                7.3.2.41."
                        ::= { dot11WNMEventTransitReportEntry 10 }

        dot11WNMEventTransitRprtTargetRCPI OBJECT-TYPE
                SYNTAX INTEGER(0..255)
                MAX-ACCESS read-only
                STATUS current
                DESCRIPTION
                        "This attribute indicates the received channel power of the first measured
                        frame just after STA reassociates to the Target BSSID. If association with
                        target BSSID failed, the Target RCPI field indicates the received channel
                        power of the most recently measured frame from the Target BSSID. The Tar-
                        get RCPI is reported in dBm, as defined in the RCPI measurement clause for
                        the PHY Type."
                        ::= { dot11WNMEventTransitReportEntry 11 }

        dot11WNMEventTransitRprtTargetRSNI OBJECT-TYPE
                SYNTAX INTEGER(0..255)
                UNITS "0.5 dB"
                MAX-ACCESS read-only
                STATUS current
                DESCRIPTION
                        "This attribute indicates the received signal to noise indication of the
                        first measured frame just after STA reassociates to the Target BSSID. If
                        association with target BSSID failed, the Target RCPI field indicates the
                        received signal to noise indication of the most recently measured frame
                        from the Target BSSID. The Target RSNI is reported in dB, as defined in
                        7.3.2.41."
                        ::= { dot11WNMEventTransitReportEntry 12 }

        -- **********************************************************************
        -- * End of dot11WNMEventTransitReport TABLE
        -- **********************************************************************

        -- **********************************************************************
        -- * dot11WNMEventRsnaReport TABLE
        -- **********************************************************************
                dot11WNMEventRsnaReportTable OBJECT-TYPE
                SYNTAX SEQUENCE OF Dot11WNMEventRsnaReportEntry
                MAX-ACCESS not-accessible
                STATUS current
                DESCRIPTION
                        "Group contains the current list of RSNA Event reports that have been
                        received by the MLME. The report tables shall be maintained as FIFO to pre-
                        serve freshness, thus the rows in this table can be deleted for memory con-
                        straints or other implementation constraints determined by the vendor. New
                        rows shall have different RprtIndex values than those deleted within the
                        range limitation of the index. One easy way is to monotonically increase
                        RprtIndex for new reports being written in the table."
                        ::= { dot11WNMReport 6 }

        dot11WNMEventRsnaReportEntry OBJECT-TYPE
                SYNTAX Dot11WNMEventRsnaReportEntry
                MAX-ACCESS not-accessible
                STATUS current
                DESCRIPTION
                        "An entry in the dot11WNMEventRsnaReportTable Indexed by
                        dot11WNMEventRsnaRprtIndex."
                INDEX { dot11WNMEventRsnaRprtIndex }
                ::= { dot11WNMEventRsnaReportTable 1 }

        Dot11WNMEventRsnaReportEntry ::=
                SEQUENCE {
                        dot11WNMEventRsnaRprtIndex                          Unsigned32,
                        dot11WNMEventRsnaRprtRqstToken                      OCTET STRING,
                        dot11WNMEventRsnaRprtIfIndex                        InterfaceIndex,
                        dot11WNMEventRsnaRprtTargetBssid                    MacAddress,
                        dot11WNMEventRsnaRprtAuthType                       OCTET STRING,
                        dot11WNMEventRsnaRprtEapMethod                      OCTET STRING,
                        dot11WNMEventRsnaRprtResult                         INTEGER,
```

```
1                        dot11WNMEventRsnaRprtRsnElement                    OCTET STRING }
2
     dot11WNMEventRsnaRprtIndex OBJECT-TYPE
3            SYNTAX Unsigned32
4            MAX-ACCESS not-accessible
             STATUS current
5            DESCRIPTION
6                    "Index for RSNA Event Report elements in dot11WNMEventRsnaReportTable,
                     greater than 0."
7            ::= { dot11WNMEventRsnaReportEntry 1 }
8
     dot11WNMEventRsnaRprtRqstToken OBJECT-TYPE
9            SYNTAX OCTET STRING
10           MAX-ACCESS read-only
             STATUS current
11           DESCRIPTION
12                   "This attribute indicates the request token that was indicated in the WNM
                     request that generated this measurement report. This should be an exact
13                   match to the original dot11WNMRqstToken attribute. Note that there may be
14                   multiple entries in the table that match this value since a single request
                     may generate multiple WNM reports."
15           ::= { dot11WNMEventRsnaReportEntry 2 }
16
     dot11WNMEventRsnaRprtIfIndex OBJECT-TYPE
17           SYNTAX InterfaceIndex
18           MAX-ACCESS read-only
             STATUS current
19           DESCRIPTION
20                   "The ifIndex for this row of WNMEventRsna Report has been received on."
21           ::= { dot11WNMEventRsnaReportEntry 3 }
22
     dot11WNMEventRsnaRprtTargetBssid OBJECT-TYPE
23           SYNTAX MacAddress
24           MAX-ACCESS read-create
             STATUS current
25           DESCRIPTION
26                   "This attribute indicates the target BSSID for the reported RSNA event."
27           ::= { dot11WNMEventRsnaReportEntry 4 }
28
     dot11WNMEventRsnaRprtAuthType OBJECT-TYPE
29           SYNTAX OCTET STRING (SIZE(4))
30           MAX-ACCESS read-create
             STATUS current
31           DESCRIPTION
32                   "This attribute indicates one of the AKM suite selectors defined in Table
                     7-34 in 7.3.2.25.2."
33           ::= { dot11WNMEventRsnaReportEntry 5 }
34
     dot11WNMEventRsnaRprtEapMethod OBJECT-TYPE
35           SYNTAX OCTET STRING (SIZE(0..3))
36           MAX-ACCESS read-create
             STATUS current
37           DESCRIPTION
38                   "This attribute indicates a value that identifies the EAP Method. When the
                     Authentication Type field is set to the value of either 00-0F-AC:1 (Authen-
39                   tication negotiated over IEEE 802.1X or using PMKSA caching as defined in
                     8.4.6.2) or 00-0F-AC:3 (AKM suite selector for Fast BSS Transition as
40                   defined in 8.4.3), the EAP Method field contains the IANA assigned EAP type
41                   defined at http://www.iana.org/assignments/eap-numbers. The EAP type con-
                     tains either the legacy type (1 octet) or the expanded type (1 octet type =
42                   254, 3-octet Vendor ID, 4-octet Vendor-Type). The EAP Method field is set
43                   to 0 otherwise."
44           ::= { dot11WNMEventRsnaReportEntry 6 }
45
     dot11WNMEventRsnaRprtResult OBJECT-TYPE
46           SYNTAX INTEGER (0..65535)
47           UNITS "TUs"
             MAX-ACCESS read-create
48           STATUS current
49           DESCRIPTION
50                   "This attribute indicates the result of the RSNA event and is set to one of
                     the Status Codes specified in Table7-23 in 7.3.1.9."
```

```
                    ::= { dot11WNMEventRsnaReportEntry 7 }

dot11WNMEventRsnaRprtRsnElement OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(0..257))
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute contains the entire contents of the negotiated RSN informa-
                tion element at the time of the authentication attempt.  The format of the
                RSN information element is defined in 7.3.2.25."
        DEFVAL { ''H }
        ::= { dot11WNMEventRsnaReportEntry 8 }

-- **********************************************************************
-- * End of dot11WNMEventRsnaReport TABLE
-- **********************************************************************

-- **********************************************************************
-- * dot11WNMEventPeerReport TABLE
-- **********************************************************************
        dot11WNMEventPeerReportTable OBJECT-TYPE
        SYNTAX SEQUENCE OF Dot11WNMEventPeerReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Group contains the current list of Peer-to-Peer Event reports that have
                been received by the MLME. The report tables shall be maintained as FIFO to
                preserve freshness, thus the rows in this table can be deleted for memory
                constraints or other implementation constraints determined by the vendor.
                New rows shall have different RprtIndex values than those deleted within
                the range limitation of the index. One easy way is to monotonically
                increase RprtIndex for new reports being written in the table."
        ::= { dot11WNMReport 7 }

dot11WNMEventPeerReportEntry OBJECT-TYPE
        SYNTAX Dot11WNMEventPeerReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the dot11WNMEventPeerReportTable Indexed by
                dot11WNMEventPeerRprtIndex."
        INDEX { dot11WNMEventPeerRprtIndex }
        ::= { dot11WNMEventPeerReportTable 1 }

Dot11WNMEventPeerReportEntry ::=
        SEQUENCE {
                dot11WNMEventPeerRprtIndex                      Unsigned32,
                dot11WNMEventPeerRprtRqstToken                  OCTET STRING,
                dot11WNMEventPeerRprtIfIndex                    InterfaceIndex,
                dot11WNMEventPeerRprtPeerMacAddress             MacAddress,
                dot11WNMEventPeerRprtRegulatoryClass            INTEGER,
                dot11WNMEventPeerRprtChanNumber                 INTEGER,
                dot11WNMEventPeerRprtStaTxPower                 Integer32,
                dot11WNMEventPeerRprtConnTime                   INTEGER,
                dot11WNMEventPeerRprtPeerStatus                 INTEGER }

dot11WNMEventPeerRprtIndex OBJECT-TYPE
        SYNTAX Unsigned32
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Index for Peer-to-Peer Event Report elements in
                dot11WNMEventPeerReportTable, greater than 0."
        ::= { dot11WNMEventPeerReportEntry 1 }

dot11WNMEventPeerRprtRqstToken OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This attribute indicates the request token that was indicated in the WNM
                request that generated this measurement report. This should be an exact
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                     match to the original dot11WNMRqstToken attribute. Note that there may be
                     multiple entries in the table that match this value since a single request
                     may generate multiple WNM reports."
             ::= { dot11WNMEventPeerReportEntry 2 }

dot11WNMEventPeerRprtIfIndex OBJECT-TYPE
        SYNTAX InterfaceIndex
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "The ifIndex for this row of WNMEventPeer Report has been received on."
        ::= { dot11WNMEventPeerReportEntry 3 }

dot11WNMEventPeerRprtPeerMacAddress OBJECT-TYPE
        SYNTAX MacAddress
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates the MAC address of the peer STA or IBSS BSSID is
                equal to the indicated MAC address. If this event is for a Peer-to-Peer
                Link in an infrastructure BSS, this field contains the MAC address of the
                peer STA. If this event is for a Peer-to-Peer Link in an IBSS, this field
                contains the BSSID of the IBSS."
        ::= { dot11WNMEventPeerReportEntry 4 }

dot11WNMEventPeerRprtRegulatoryClass OBJECT-TYPE
        SYNTAX INTEGER(1..255)
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates the channel set for this Peer-to-peer Event
                report. Country, Regulatory Class and Channel Number together specify the
                channel frequency and spacing for this measurement request. Valid values of
                Regulatory Class are shown in Annex J."
        REFERENCE
                "Annex J"
        ::= { dot11WNMEventPeerReportEntry 5 }

dot11WNMEventPeerRprtChanNumber OBJECT-TYPE
        SYNTAX INTEGER (1..255)
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates the current operating channel for this Peer-to-
                peer Event report. The Channel Number is only defined within the indicated
                Regulatory Class for this WNM request."
        ::= { dot11WNMEventPeerReportEntry 6 }

dot11WNMEventPeerRprtStaTxPower OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This attribute indicates the STA transmit power used for the peer-to-peer
                link.The STA Tx Power field indicates the target transmit power at the
                antenna in dBm with a tolerance of +/-5dB of the lowest basic rate of the
                reporting STA."
        ::= { dot11WNMEventPeerReportEntry 7 }

dot11WNMEventPeerRprtConnTime OBJECT-TYPE
        SYNTAX INTEGER (0..16777215)
        UNITS "seconds"
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates a value representing the connectioin time for the
                reported peer-to-peer event. If the Peer Status is 0, this field indicates
                the duration of the Direct Link. If the Peer Status is 1, this field indi-
                cates the time difference from the time the Direct Link was established to
                the current time. If the Peer Status is 2, this field indicates the dura-
                tion of the IBSS membership. If the Peer Status is 3, this field indicates
                the time difference from the time the STA joined the IBSS to the current
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                              time."
                ::= { dot11WNMEventPeerReportEntry 8 }

        dot11WNMEventPeerRprtPeerStatus OBJECT-TYPE
                SYNTAX INTEGER {
                        directLinkTerminated(0),
                        directLinkActive(1),
                        ibssMembershipTerminated(2),
                        ibssMembershipActive(3),
                        }
                MAX-ACCESS read-create
                STATUS current
                DESCRIPTION
                        "This attribute indicates the peer link connection status."
                ::= { dot11WNMEventPeerReportEntry 9 }

        -- ********************************************************************
        -- * End of dot11WNMEventPeerReport TABLE
        -- ********************************************************************

        -- ********************************************************************
        -- * dot11WNMEventSysLogReport TABLE
        -- ********************************************************************
                dot11WNMEventSysLogReportTable OBJECT-TYPE
                SYNTAX SEQUENCE OF Dot11WNMEventSysLogReportEntry
                MAX-ACCESS not-accessible
                STATUS current
                DESCRIPTION
                        "Group contains the current list of Syslog Event reports that have been
                        received by the MLME. The report tables shall be maintained as FIFO to pre-
                        serve freshness, thus the rows in this table can be deleted for memory con-
                        straints or other implementation constraints determined by the vendor. New
                        rows shall have different RprtIndex values than those deleted within the
                        range limitation of the index. One easy way is to monotonically increase
                        RprtIndex for new reports being written in the table."
                ::= { dot11WNMReport 8 }

        dot11WNMEventSysLogReportEntry OBJECT-TYPE
                SYNTAX Dot11WNMEventSysLogReportEntry
                MAX-ACCESS not-accessible
                STATUS current
                DESCRIPTION
                        "An entry in the dot11WNMEventSysLogReportTable Indexed by
                        dot11WNMEventSysLogRprtIndex."
                INDEX { dot11WNMEventSysLogRprtIndex }
                ::= { dot11WNMEventSysLogReportTable 1 }

        Dot11WNMEventSysLogReportEntry ::=
                SEQUENCE {
                        dot11WNMEventSysLogRprtIndex                    Unsigned32,
                        dot11WNMEventSysLogRprtRqstToken               OCTET STRING,
                        dot11WNMEventSysLogRprtIfIndex                 InterfaceIndex,
                        dot11WNMEventSysLogRprtContent                 OCTET STRING }

        dot11WNMEventSysLogRprtIndex OBJECT-TYPE
                SYNTAX Unsigned32
                MAX-ACCESS not-accessible
                STATUS current
                DESCRIPTION
                        "Index for Syslog Event Report elements in dot11WNMEventSysLogReportTable,
                        greater than 0."
                ::= { dot11WNMEventSysLogReportEntry 1 }

        dot11WNMEventSysLogRprtRqstToken OBJECT-TYPE
                SYNTAX OCTET STRING
                MAX-ACCESS read-only
                STATUS current
                DESCRIPTION
                        "This attribute indicates the request token that was indicated in the WNM
                        request that generated this measurement report. This should be an exact
                        match to the original dot11WNMRqstToken attribute. Note that there may be
                        multiple entries in the table that match this value since a single request
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                            may generate multiple WNM reports."
                ::= { dot11WNMEventSysLogReportEntry 2 }

    dot11WNMEventSysLogRprtIfIndex OBJECT-TYPE
            SYNTAX InterfaceIndex
            MAX-ACCESS read-only
            STATUS current
            DESCRIPTION
                    "The ifIndex for this row of WNMEventSysLog Report has been received on."
            ::= { dot11WNMEventSysLogReportEntry 3 }

    dot11WNMEventSysLogRprtContent OBJECT-TYPE
            SYNTAX OCTET STRING (SIZE(0..2284))
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                    "This attribute provides an envelope for the Syslog Event sub-elements
                    required by the WNM request element. Zero length is the null default for
                    this attribute."
            DEFVAL { ''H }
            ::= { dot11WNMEventSysLogReportEntry 4 }

    -- **********************************************************************
    -- * End of dot11WNMEventSysLogReport TABLE
    -- **********************************************************************

    -- **********************************************************************
    -- * dot11WNMDiagMfrInfoReport TABLE
    -- **********************************************************************
            dot11WNMDiagMfrInfoReportTable OBJECT-TYPE
            SYNTAX SEQUENCE OF Dot11WNMDiagMfrInfoReportEntry
            MAX-ACCESS not-accessible
            STATUS current
            DESCRIPTION
                    "Group contains the current list of Manufacturer Information STA reports
                    that have been received by the MLME. The report tables shall be maintained
                    as FIFO to preserve freshness, thus the rows in this table can be deleted
                    for memory constraints or other implementation constraints determined by
                    the vendor. New rows shall have different RprtIndex values than those
                    deleted within the range limitation of the index. One easy way is to mono-
                    tonically increase RprtIndex for new reports being written in the table."
            ::= { dot11WNMReport 9 }

    dot11WNMDiagMfrInfoReportEntry OBJECT-TYPE
            SYNTAX Dot11WNMDiagMfrInfoReportEntry
            MAX-ACCESS not-accessible
            STATUS current
            DESCRIPTION
                    "An entry in the dot11WNMDiagMfrInfoReportTable Indexed by
                    dot11WNMDiagMfrInfoRprtIndex."
            INDEX { dot11WNMDiagMfrInfoRprtIndex }
            ::= { dot11WNMDiagMfrInfoReportTable 1 }

    Dot11WNMDiagMfrInfoReportEntry ::=
            SEQUENCE {
                    dot11WNMDiagMfrInfoRprtIndex                     Unsigned32,
                    dot11WNMDiagMfrInfoRprtRqstToken                 OCTET STRING,
                    dot11WNMDiagMfrInfoRprtIfIndex                   InterfaceIndex,
                    dot11WNMDiagMfrInfoRprtMfrOui                    OCTET STRING,
                    dot11WNMDiagMfrInfoRprtMfrIdString               OCTET STRING,
                    dot11WNMDiagMfrInfoRprtMfrModelString            OCTET STRING,
                    dot11WNMDiagMfrInfoRprtMfrSerialNumberString     OCTET STRING,
                    dot11WNMDiagMfrInfoRprtMfrFirmwareVersion        OCTET STRING,
                    dot11WNMDiagMfrInfoRprtMfrAntennaType            OCTET STRING,
                    dot11WNMDiagMfrInfoRprtMfrAntennaGain            OCTET STRING }

    dot11WNMDiagMfrInfoRprtIndex OBJECT-TYPE
            SYNTAX Unsigned32
            MAX-ACCESS not-accessible
            STATUS current
            DESCRIPTION
                    "Index for Manufacturer Information STA Report elements in
```

```
                              dot11WNMDiagMfrInfoReportTable, greater than 0."
              ::= { dot11WNMDiagMfrInfoReportEntry 1 }

    dot11WNMDiagMfrInfoRprtRqstToken OBJECT-TYPE
          SYNTAX OCTET STRING
          MAX-ACCESS read-only
          STATUS current
          DESCRIPTION
                "This attribute indicates the request token that was indicated in the WNM
                request that generated this measurement report. This should be an exact
                match to the original dot11WNMRqstToken attribute. Note that there may be
                multiple entries in the table that match this value since a single request
                may generate multiple WNM reports."
          ::= { dot11WNMDiagMfrInfoReportEntry 2 }

    dot11WNMDiagMfrInfoRprtIfIndex OBJECT-TYPE
          SYNTAX InterfaceIndex
          MAX-ACCESS read-only
          STATUS current
          DESCRIPTION
                "The ifIndex for this row of WNMDiagMfrInfo Report has been received on."
          ::= { dot11WNMDiagMfrInfoReportEntry 3 }

    dot11WNMDiagMfrInfoRprtMfrOui OBJECT-TYPE
          SYNTAX OCTET STRING (SIZE(0..5))
          MAX-ACCESS read-create
          STATUS current
          DESCRIPTION
                "This attribute indicates the Manufacturer OUI for the reported Manufac-
                turer Information STA Diagnostic. The OUI attribute contains an Organiza-
                tional Unique Identification, the first 24-bits of the network connected
                device, which indicate the specific vendor for that device."
          DEFVAL { ''H }
          ::= { dot11WNMDiagMfrInfoReportEntry 4 }


    dot11WNMDiagMfrInfoRprtMfrIdString OBJECT-TYPE
          SYNTAX OCTET STRING (SIZE(0..255))
          MAX-ACCESS read-create
          STATUS current
          DESCRIPTION
                "This attribute indicates the Manufacturer ID string for the reported Manu-
                facturer Information STA Diagnostic. The ID attribute contains an ASCII
                string indicating the manufacturer identifier of the wireless network adap-
                tor. This string is not null terminated."
          DEFVAL { ''H }
          ::= { dot11WNMDiagMfrInfoReportEntry 5 }

    dot11WNMDiagMfrInfoRprtMfrModelString OBJECT-TYPE
          SYNTAX OCTET STRING (SIZE(0..255))
          MAX-ACCESS read-create
          STATUS current
          DESCRIPTION
                "This attribute indicates the Manufacturer model string for the reported
                Manufacturer Information STA Diagnostic. The model attribute contains an
                ASCII string indicating the model of the wireless network adaptor. This
                string is not null terminated."
          DEFVAL { ''H }
          ::= { dot11WNMDiagMfrInfoReportEntry 6 }

    dot11WNMDiagMfrInfoRprtMfrSerialNumberString OBJECT-TYPE
          SYNTAX OCTET STRING (SIZE(0..255))
          MAX-ACCESS read-create
          STATUS current
          DESCRIPTION
                "This attribute indicates the Manufacturer serial number string for the
                reported Manufacturer Information STA Diagnostic. The serial number
                attribute contains an ASCII string indicating the serial number of the
                wireless network adaptor. This string is not null terminated."
          DEFVAL { ''H }
          ::= { dot11WNMDiagMfrInfoReportEntry 7 }
```

```
dot11WNMDiagMfrInfoRprtMfrFirmwareVersion OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(0..255))
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates the Manufacturer firmware version string for the
                reported Manufacturer Information STA Diagnostic. The firmware version
                attribute contains an ASCII string identifying the version of firmware cur-
                rently installed on the wireless network adaptor. This string is not null
                terminated."
        DEFVAL { ''H }
        ::= { dot11WNMDiagMfrInfoReportEntry 8 }

dot11WNMDiagMfrInfoRprtMfrAntennaType OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(0..255))
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates the Manufacturer antenna type string for the
                reported Manufacturer Information STA Diagnostic. The antenna type
                attribute contains an ASCII string indicating the type of antenna con-
                nected to the wireless network adaptor."
        DEFVAL { ''H }
        ::= { dot11WNMDiagMfrInfoReportEntry 9 }

dot11WNMDiagMfrInfoRprtMfrAntennaGain OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(1))
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute indicates the Manufacturer antenna gain string for the
                reported Manufacturer Information STA Diagnostic. The antenna gain
                attribute contains the peak gain in dBi of the antenna connected to the
                wireless network adaptor."
        DEFVAL { ''H }
        ::= { dot11WNMDiagMfrInfoReportEntry 10 }

-- ********************************************************************
-- * End of dot11WNMDiagMfrInfoReport TABLE
-- ********************************************************************

-- ********************************************************************
-- * dot11WNMDiagConfigProfReport TABLE
-- ********************************************************************
        dot11WNMDiagConfigProfReportTable OBJECT-TYPE
        SYNTAX SEQUENCE OF Dot11WNMDiagConfigProfReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Group contains the current list of Configuration Profile reports that have
                been received by the MLME. The report tables shall be maintained as FIFO to
                preserve freshness, thus the rows in this table can be deleted for memory
                constraints or other implementation constraints determined by the vendor.
                New rows shall have different RprtIndex values than those deleted within
                the range limitation of the index. One easy way is to monotonically
                increase RprtIndex for new reports being written in the table."
        ::= { dot11WNMReport 10 }

dot11WNMDiagConfigProfReportEntry OBJECT-TYPE
        SYNTAX Dot11WNMDiagConfigProfReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the dot11WNMDiagConfigProfReportTable Indexed by
                dot11WNMDiagConfigProfRprtIndex."
        INDEX { dot11WNMDiagConfigProfRprtIndex }
        ::= { dot11WNMDiagConfigProfReportTable 1 }

Dot11WNMDiagConfigProfReportEntry ::=
        SEQUENCE {
                dot11WNMDiagConfigProfRprtIndex                          Unsigned32,
                dot11WNMDiagConfigProfRprtRqstToken                      OCTET STRING,
```

```
                          dot11WNMDiagConfigProfRprtIfIndex                    InterfaceIndex,
                          dot11WNMDiagConfigProfRprtContent                    OCTET STRING }

dot11WNMDiagConfigProfRprtIndex OBJECT-TYPE
        SYNTAX Unsigned32
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Index for Configuration Profile Report elements in
                dot11WNMDiagConfigProfReportTable, greater than 0."
        ::= { dot11WNMDiagConfigProfReportEntry 1 }

dot11WNMDiagConfigProfRprtRqstToken OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This attribute indicates the request token that was indicated in the WNM
                request that generated this measurement report. This should be an exact
                match to the original dot11WNMRqstToken attribute. Note that there may be
                multiple entries in the table that match this value since a single request
                may generate multiple WNM reports."
        ::= { dot11WNMDiagConfigProfReportEntry 2 }

dot11WNMDiagConfigProfRprtIfIndex OBJECT-TYPE
        SYNTAX InterfaceIndex
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "The ifIndex for this row of WNMDiagConfigProf Report has been received
                on."
        ::= { dot11WNMDiagConfigProfReportEntry 3 }

dot11WNMDiagConfigProfRprtContent OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(0..255))
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute provides an envelope for the Configuration Profile sub-ele-
                ments required by the WNM request element. Zero length is the null default
                for this attribute."
        DEFVAL { ''H }
        ::= { dot11WNMDiagConfigProfReportEntry 4 }

-- ********************************************************************
-- * End of dot11WNMDiagConfigProfReport TABLE
-- ********************************************************************

-- ********************************************************************
-- * dot11WNMDiagAssocReport TABLE
-- ********************************************************************
        dot11WNMDiagAssocReportTable OBJECT-TYPE
        SYNTAX SEQUENCE OF Dot11WNMDiagAssocReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Group contains the current list of Association Diagnostic reports that
                have been received by the MLME. The report tables shall be maintained as
                FIFO to preserve freshness, thus the rows in this table can be deleted for
                memory constraints or other implementation constraints determined by the
                vendor. New rows shall have different RprtIndex values than those deleted
                within the range limitation of the index. One easy way is to monotonically
                increase RprtIndex for new reports being written in the table."
        ::= { dot11WNMReport 11 }

dot11WNMDiagAssocReportEntry OBJECT-TYPE
        SYNTAX Dot11WNMDiagAssocReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the dot11WNMDiagAssocReportTable Indexed by
                dot11WNMDiagAssocRprtIndex."
```

```
                         INDEX { dot11WNMDiagAssocRprtIndex }
                         ::= { dot11WNMDiagAssocReportTable 1 }

        Dot11WNMDiagAssocReportEntry ::=
                 SEQUENCE {
                         dot11WNMDiagAssocRprtIndex                          Unsigned32,
                         dot11WNMDiagAssocRprtRqstToken                      OCTET STRING,
                         dot11WNMDiagAssocRprtIfIndex                        InterfaceIndex,
                         dot11WNMDiagAssocRprtContent                        OCTET STRING }

        dot11WNMDiagAssocRprtIndex OBJECT-TYPE
                 SYNTAX Unsigned32
                 MAX-ACCESS not-accessible
                 STATUS current
                 DESCRIPTION
                         "Index for Association Diagnostic Report elements in
                         dot11WNMDiagAssocReportTable, greater than 0."
                 ::= { dot11WNMDiagAssocReportEntry 1 }

        dot11WNMDiagAssocRprtRqstToken OBJECT-TYPE
                 SYNTAX OCTET STRING
                 MAX-ACCESS read-only
                 STATUS current
                 DESCRIPTION
                         "This attribute indicates the request token that was indicated in the WNM
                         request that generated this measurement report. This should be an exact
                         match to the original dot11WNMRqstToken attribute. Note that there may be
                         multiple entries in the table that match this value since a single request
                         may generate multiple WNM reports."
                 ::= { dot11WNMDiagAssocReportEntry 2 }

        dot11WNMDiagAssocRprtIfIndex OBJECT-TYPE
                 SYNTAX InterfaceIndex
                 MAX-ACCESS read-only
                 STATUS current
                 DESCRIPTION
                         "The ifIndex for this row of WNMDiagAssoc Report has been received on."
                 ::= { dot11WNMDiagAssocReportEntry 3 }

        dot11WNMDiagAssocRprtContent OBJECT-TYPE
                 SYNTAX OCTET STRING (SIZE(0..255))
                 MAX-ACCESS read-create
                 STATUS current
                 DESCRIPTION
                         "This attribute provides an envelope for the Association Diagnostic sub-
                         elements required by the WNM request element. Zero length is the null
                         default for this attribute."
                 DEFVAL { ''H }
                 ::= { dot11WNMDiagAssocReportEntry 4 }

        -- ********************************************************************
        -- * End of dot11WNMDiagAssocReport TABLE
        -- ********************************************************************


        -- ********************************************************************
        -- * dot11WNMDiag8021xAuthReport TABLE
        -- ********************************************************************
        dot11WNMDiag8021xAuthReportTable OBJECT-TYPE
        SYNTAX SEQUENCE OF Dot11WNMDiag8021xAuthReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                 "Group contains the current list of 802.1X Authentication Diagnostic
                 reports that have been received by the MLME. The report tables shall be
                 maintained as FIFO to preserve freshness, thus the rows in this table can
                 be deleted for memory constraints or other implementation constraints
                 determined by the vendor. New rows shall have different RprtIndex values
                 than those deleted within the range limitation of the index. One easy way
                 is to monotonically increase RprtIndex for new reports being written in the
                 table."
        ::= { dot11WNMReport 12 }
```

```
dot11WNMDiag8021xAuthReportEntry OBJECT-TYPE
        SYNTAX Dot11WNMDiag8021xAuthReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the dot11WNMDiag8021xAuthReportTable Indexed by
                dot11WNMDiag8021xAuthRprtIndex."
        INDEX { dot11WNMDiag8021xAuthRprtIndex }
        ::= { dot11WNMDiag8021xAuthReportTable 1 }

Dot11WNMDiag8021xAuthReportEntry ::=
        SEQUENCE {
                dot11WNMDiag8021xAuthRprtIndex                      Unsigned32,
                dot11WNMDiag8021xAuthRprtRqstToken                  OCTET STRING,
                dot11WNMDiag8021xAuthRprtIfIndex                    InterfaceIndex,
                dot11WNMDiag8021xAuthRprtContent                    OCTET STRING }

dot11WNMDiag8021xAuthRprtIndex OBJECT-TYPE
        SYNTAX Unsigned32
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Index for 802.1X Authentication Diagnostic Report elements in
                dot11WNMDiag8021xAuthReportTable, greater than 0."
        ::= { dot11WNMDiag8021xAuthReportEntry 1 }

dot11WNMDiag8021xAuthRprtRqstToken OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This attribute indicates the request token that was indicated in the WNM
                request that generated this measurement report. This should be an exact
                match to the original dot11WNMRqstToken attribute. Note that there may be
                multiple entries in the table that match this value since a single request
                may generate multiple WNM reports."
        ::= { dot11WNMDiag8021xAuthReportEntry 2 }

dot11WNMDiag8021xAuthRprtIfIndex OBJECT-TYPE
        SYNTAX InterfaceIndex
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "The ifIndex for this row of WNMDiag8021xAuth Report has been received on."
        ::= { dot11WNMDiag8021xAuthReportEntry 3 }

dot11WNMDiag8021xAuthRprtContent OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(0..255))
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute provides an envelope for the 802.1X Authentication Diagnos-
                tic sub-elements required by the WNM request element. Zero length is the
                null default for this attribute."
        DEFVAL { ''H }
        ::= { dot11WNMDiag8021xAuthReportEntry 4 }

-- ********************************************************************
-- * End of dot11WNMDiag8021xAuthReport TABLE
-- ********************************************************************

-- ********************************************************************
-- * dot11WNMLCIReport TABLE
-- ********************************************************************
        dot11WNMLCIReportTable OBJECT-TYPE
        SYNTAX SEQUENCE OF Dot11WNMLCIReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Group contains the current list of Location Configuration reports that
                have been received by the MLME. The report tables shall be maintained as
                FIFO to preserve freshness, thus the rows in this table can be deleted for
```

```
                        memory constraints or other implementation constraints determined by the
                        vendor. New rows shall have different RprtIndex values than those deleted
                        within the range limitation of the index. One easy way is to monotonically
                        increase RprtIndex for new reports being written in the table."
            ::= { dot11WNMReport 13 }

    dot11WNMLCIReportEntry OBJECT-TYPE
            SYNTAX Dot11WNMLCIReportEntry
            MAX-ACCESS not-accessible
            STATUS current
            DESCRIPTION
                    "An entry in the dot11WNMLCIReportTable Indexed by dot11WNMLCIRprtIndex."
            INDEX { dot11WNMLCIRprtIndex }
            ::= { dot11WNMLCIReportTable 1 }

    Dot11WNMLCIReportEntry ::=
            SEQUENCE {
                    dot11WNMLCIRprtIndex                            Unsigned32,
                    dot11WNMLCIRprtRqstToken                        OCTET STRING,
                    dot11WNMLCIRprtIfIndex                          InterfaceIndex,
                    dot11WNMLCIRprtContent                          OCTET STRING }

    dot11WNMLCIRprtIndex OBJECT-TYPE
            SYNTAX Unsigned32
            MAX-ACCESS not-accessible
            STATUS current
            DESCRIPTION
                    "Index for Location Configuration Report elements in
                    dot11WNMLCIReportTable, greater than 0."
            ::= { dot11WNMLCIReportEntry 1 }

    dot11WNMLCIRprtRqstToken OBJECT-TYPE
            SYNTAX OCTET STRING
            MAX-ACCESS read-only
            STATUS current
            DESCRIPTION
                    "This attribute indicates the request token that was indicated in the WNM
                    request that generated this measurement report. This should be an exact
                    match to the original dot11WNMRqstToken attribute. Note that there may be
                    multiple entries in the table that match this value since a single request
                    may generate multiple WNM reports."
            ::= { dot11WNMLCIReportEntry 2 }

    dot11WNMLCIRprtIfIndex OBJECT-TYPE
            SYNTAX InterfaceIndex
            MAX-ACCESS read-only
            STATUS current
            DESCRIPTION
                    "The ifIndex for this row of WNMLCI Report has been received on."
            ::= { dot11WNMLCIReportEntry 3 }

    dot11WNMLCIRprtContent OBJECT-TYPE
            SYNTAX OCTET STRING (SIZE(0..255))
            MAX-ACCESS read-create
            STATUS current
            DESCRIPTION
                    "This attribute provides an envelope for the Location Configuration sub-
                    elements required by the WNM request element. Zero length is the null
                    default for this attribute."
            DEFVAL { ''H }
            ::= { dot11WNMLCIReportEntry 4 }

    -- ********************************************************************
    -- * End of dot11WNMLCIReport TABLE
    -- ********************************************************************

    -- ********************************************************************
    -- * dot11WNMBssTransitReport TABLE
    -- ********************************************************************
            dot11WNMBssTransitReportTable OBJECT-TYPE
            SYNTAX SEQUENCE OF Dot11WNMBssTransitReportEntry
            MAX-ACCESS not-accessible
```

```
        STATUS current
        DESCRIPTION
                "Group contains the current list of BSS Transition Management reports that
                have been received by the MLME. The report tables shall be maintained as
                FIFO to preserve freshness, thus the rows in this table can be deleted for
                memory constraints or other implementation constraints determined by the
                vendor. New rows shall have different RprtIndex values than those deleted
                within the range limitation of the index. One easy way is to monotonically
                increase RprtIndex for new reports being written in the table."
        ::= { dot11WNMReport 14 }

dot11WNMBssTransitReportEntry OBJECT-TYPE
        SYNTAX Dot11WNMBssTransitReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the dot11WNMBssTransitReportTable Indexed by
                dot11WNMBssTransitRprtIndex."
        INDEX { dot11WNMBssTransitRprtIndex }
        ::= { dot11WNMBssTransitReportTable 1 }

Dot11WNMBssTransitReportEntry ::=
        SEQUENCE {
                dot11WNMBssTransitRprtIndex                      Unsigned32,
                dot11WNMBssTransitRprtRqstToken                  OCTET STRING,
                dot11WNMBssTransitRprtIfIndex                    InterfaceIndex,
                dot11WNMBssTransitRprtContent                    OCTET STRING }

dot11WNMBssTransitRprtIndex OBJECT-TYPE
        SYNTAX Unsigned32
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Index for BSS Transition Management Report elements in
                dot11WNMBssTransitReportTable, greater than 0."
        ::= { dot11WNMBssTransitReportEntry 1 }

dot11WNMBssTransitRprtRqstToken OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This attribute indicates the request token that was indicated in the WNM
                request that generated this measurement report. This should be an exact
                match to the original dot11WNMRqstToken attribute. Note that there may be
                multiple entries in the table that match this value since a single request
                may generate multiple WNM reports."
        ::= { dot11WNMBssTransitReportEntry 2 }

dot11WNMBssTransitRprtIfIndex OBJECT-TYPE
        SYNTAX InterfaceIndex
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "The ifIndex for this row of WNMBssTransit Report has been received on."
        ::= { dot11WNMBssTransitReportEntry 3 }

dot11WNMBssTransitRprtContent OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(0..255))
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute provides an envelope for the BSS Transition Management sub-
                elements required by the WNM request element. Zero length is the null
                default for this attribute."
        DEFVAL { ''H }
        ::= { dot11WNMBssTransitReportEntry 4 }

-- ********************************************************************
-- * End of dot11WNMBssTransitReport TABLE
-- ********************************************************************
```

```
-- ********************************************************************
-- * dot11WNMColocInterfReport TABLE
-- ********************************************************************
        dot11WNMColocInterfReportTable OBJECT-TYPE
        SYNTAX SEQUENCE OF Dot11WNMColocInterfReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Group contains the current list of Co-located Interference reports that
                have been received by the MLME. The report tables shall be maintained as
                FIFO to preserve freshness, thus the rows in this table can be deleted for
                memory constraints or other implementation constraints determined by the
                vendor. New rows shall have different RprtIndex values than those deleted
                within the range limitation of the index. One easy way is to monotonically
                increase RprtIndex for new reports being written in the table."
        ::= { dot11WNMReport 16 }

dot11WNMColocInterfReportEntry OBJECT-TYPE
        SYNTAX Dot11WNMColocInterfReportEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the dot11WNMColocInterfReportTable Indexed by
                dot11WNMColocInterfRprtIndex."
        INDEX { dot11WNMColocInterfRprtIndex }
        ::= { dot11WNMColocInterfReportTable 1 }

Dot11WNMColocInterfReportEntry ::=
        SEQUENCE {
                dot11WNMColocInterfRprtIndex                    Unsigned32,
                dot11WNMColocInterfRprtRqstToken                OCTET STRING,
                dot11WNMColocInterfRprtIfIndex                  InterfaceIndex,
                dot11WNMColocInterfRprtContent                  OCTET STRING }

dot11WNMColocInterfRprtIndex OBJECT-TYPE
        SYNTAX Unsigned32
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Index for Co-located Interference Report elements in
                dot11WNMColocInterfReportTable, greater than 0."
        ::= { dot11WNMColocInterfReportEntry 1 }

dot11WNMColocInterfRprtRqstToken OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This attribute indicates the request token that was indicated in the WNM
                request that generated this measurement report. This should be an exact
                match to the original dot11WNMRqstToken attribute. Note that there may be
                multiple entries in the table that match this value since a single request
                may generate multiple WNM reports."
        ::= { dot11WNMColocInterfReportEntry 2 }

dot11WNMColocInterfRprtIfIndex OBJECT-TYPE
        SYNTAX InterfaceIndex
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "The ifIndex for this row of WNMColocInterf Report has been received on."
                ::= { dot11WNMColocInterfReportEntry 3 }

dot11WNMColocInterfRprtContent OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(0..255))
        MAX-ACCESS read-create
        STATUS current
        DESCRIPTION
                "This attribute provides an envelope for the Co-located Interference sub-
                elements required by the WNM request element. Zero length is the null
                default for this attribute."
        DEFVAL { ''H }
```

```
                ::= { dot11WNMColocInterfReportEntry 4 }

-- *******************************************************************
-- * End of dot11WNMColocInterfReport TABLE
-- *******************************************************************
```