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**IEEE P802.11**  
**Wireless LANs**

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**LB133: Normative Text Changes for Annex Q****Date:** 2008-SEP-10**Author(s):**

<b>Name</b>	<b>Company</b>	<b>Address</b>	<b>Phone</b>	<b>email</b>
Joe Kwak	InterDigital Communications	482 Degas Bolingbrook, IL 60440	630-739-4159	joekwak@sbcglobal.net

**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

```

10  -- *****
11  -- * IEEE 802.11 RRM-WNM MIB
12  -- *****
13  -- * The primary interface to the Radio Resource Measurements is meant to be
14  -- * real-time information obtained through the request/response mechanisms of
15  -- * RRM. A secondary interface to the measurements is through retention of
16  -- * information in the MIB. The information, meant to be retained for later
17  -- * access, includes the MIB entries of Annex Q. Non-SNMP requests for infor-
18  -- * mation are obtained via object IDs (OIDs) through the NDIS or "wireless"
19  -- * interfaces in the operating systems. SNMP requests for information are
20  -- * obtained via SNMP SETs and GETs.
21  -- * The primary interface to the Radio Resource Measurements and Wireless
22  -- * Network Management functions is meant to be real-time information
23  -- * obtained through the request/response mechanisms of RRM and WNM.
24  -- * A secondary interface to the measurements is through retention of
25  -- * information in the MIB. The information, meant to be retained for
26  -- * later access, includes the MIB entries of Annex Q. Non-SNMP requests
27  -- * for information are obtained via object IDs (OIDs) through the NDIS
28  -- * or "wireless" interfaces in the operating systems. SNMP requests for
29  -- * information are obtained via SNMP SETs and GETs.
30
31  -- *****
32  -- * Radio Resource Measurement
33  -- *****
34  dot11RadioResourceMeasurement OBJECT IDENTIFIER ::= { dot11smt 14 }
35  -- *****
36  -- * dot11RRMRequest and dot11RRMReport Usage
37  -- *
38  -- * The dot11RRMRequest and dot11RRMReport portions of the RRM MIB
39  -- * provide access to the Radio Measurement service. By performing
40  -- * SET operations on the various dot11RRMRequest MIB objects,
41  -- * radio measurements may be initiated directly on the local STA or
42  -- * on any peer station within the same BSS. Subsequently, by
43  -- * performing GET operations on the various dot11RRMReport MIB
44  -- * objects the results of the requested measurements may be
45  -- * retrieved.
46  -- *
47  -- * In the diagram below, a radio measurement could be initiated
48  -- * for STA x by performing a MIB.set operation on the RRM MIB of
49  -- * STA x and specifying the MAC address of STA x in
50  -- * 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  -- *
2  -- *
3  -- *      MIB.Set
4  -- *      or
5  -- *      MIB.Get
6  -- *
7  -- *      +-----+
8  -- *      | SME |
9  -- *      | \ / |
10 -- *      | +-----+ |
11 -- *      | | RRM MIB | |
12 -- *      | |         | |
13 -- *      | +-----+ |
14 -- *      | / \ |
15 -- *      | | MREQUEST | |
16 -- *      | +-----+ |
17 -- *      | | MREPORT |
18 -- *      | | \ / | MEASURE |
19 -- *      | +-----+ |
20 -- *      | MLME |
21 -- *      +-----+
22 -- *      STA x
23
24 -- *      MIB.Set
25 -- *      or
26 -- *      MIB.Get
27 -- *
28 -- *      +-----+
29 -- *      | SME |
30 -- *      | \ / |
31 -- *      | +-----+ |
32 -- *      | | RRM MIB | |
33 -- *      | |         | |
34 -- *      | +-----+ |
35 -- *      | / \ |
36 -- *      | | MREQUEST | |
37 -- *      | +-----+ |
38 -- *      | | MREPORT |
39 -- *      | | \ / | MEASURE |
40 -- *      | +-----+ |
41 -- *      | MLME |
42 -- *      +-----+
43 -- *      STA y
44
45 -- *
46 -- *
47 -- * Each STA maintains a single dot11RRMRequestTable in the SME MIB
48 -- * used to initiate RM Measurement Requests. Each dot11RRMRequestEntry
49 -- * in the table represents an individual Measurement Request that
50 -- * makes up a complete Measurement Request Action frame.
51 -- * Multiple Measurement Requests may be concatenated into a single
52 -- * Measurement Request Action frame by setting the same
53 -- * dot11RRMRqstToken value into multiple dot11RRMRequestEntrys.
54 -- *
55 -- * Each row, dot11RRMRequestEntry, of the dot11RRMRequestTable
56 -- * provides read-create access for the initiation of a measurement
57 -- * request. The dot11RRMRequestNextIndex object can be used to
58 -- * determine which is the next row available. Each row corresponding to
59 -- * one measurement in the sequence is created with a dot11RRMRqstRowStatus
60 -- * set to notInService. Once the dot11RRMRequestEntry(s) have been
61 -- * created for a desired measurement sequence the corresponding
62 -- * dot11RRMRqstRowStatus(s) objects are set to active to indicate that
63 -- * the SME can trigger the appropriate MLME primitives. Upon processing
64 -- * the request, the SME returns the corresponding dot11RRMRqstRowStatus(s)
65 -- * object to notInService and are now available for additional
66 -- * measurement requests.
67 -- *
68 -- * After a radio measurement is complete the RRM populates the RRMReport
69 -- * objects with the results of the measurement. Each STA maintains a set
70 -- * of RRMReport tables, one for each corresponding measurement type. The
71 -- * results of the entire measurement sequence are spread across the tables
72 -- * based on what types of measurements were requested. Each xxxReportEntry
73 -- * within a xxxReportTable contains a xxxRprtRqstToken that corresponds
74 -- * to the original dot11RRMRqstToken in the measurement request. So the
75 -- * results of the measurement can be collected by searching the appropriate
76 -- * xxxReportTables and retrieve any reports with the matching request
77 -- * xxxReportTables and retrieve any reports with the matching requesttoken.
78 -- *
79 -- *
80 -- * Similar structures and mechanisms are used for Wireless Network Management
81 -- * Request and Reports. The WNM MIB defintions follow the RRM MIB definitions
82 -- * token in this Annex.
83
84 -- *****

```

*Insert following MIB text at the end of Annex Q:*

```

1
2
3
4
5 -- * NEW WNM SECTIONS HERE!!
6
7 -- *****
8 -- * Wireless Network Management
9 -- *****
10 dot11WirelessNetworkManagement OBJECT IDENTIFIER ::= { dot11smt 15 }
11
12 -- *****
13 -- * Wireless Network Management Requests
14 -- *****
15 dot11WNMRequest OBJECT IDENTIFIER ::= { dot11WirelessNetworkManagement 1 }
16
17 -- *****
18 -- * dot11WNMRequest TABLE
19 -- *****
20 dot11WNMRequestNextIndex OBJECT-TYPE
21     SYNTAX Unsigned32(0..65535)
22     MAX-ACCESS read-only
23     STATUS current
24     DESCRIPTION
25         "Identifies a hint for the next value of dot11WNMRqstIndex to be used in a
26         row creation attempt for dot11WNMRequestTable. If no new rows can be cre-
27         ated for some reason, such as memory, processing requirements, etc, the SME
28         shall set this attribute to 0. It shall update this attribute to a proper
29         value other than 0 as soon as it is capable of receiving new measurement
30         requests. The nextIndex is not necessarily sequential nor monotonically
31         increasing."
32     ::= { dot11WNMRequest 1 }
33
34 dot11WNMRequestTable OBJECT-TYPE
35     SYNTAX SEQUENCE OF Dot11WNMRequestEntry
36     MAX-ACCESS not-accessible
37     STATUS current
38     DESCRIPTION
39         "This group contains the current list of requests for WNM reports to be
40         issued and have been issued until removed. A network manager adds a WNM
41         request by creating a row with createAndWait row status and then filling in
42         the request parameters/attributes. The request becomes active to be issued
43         when the row status is set to Active. The columnar objects or attributes
44         other than the rowStatus shall not be written if the rowStatus is Active.
45         The request rows can be deleted, if commanded by a network manager via
46         changing the value of dot11WNMRqstRowStatus to Destroy. This may leave
47         orphaned rows if a manager crashes and forgets which rows are being used by
48         it. One recommended way to manage orphaned or finished rows is to delete
49         rows if their dot11WNMRqstRowStatus remains other than Active for longer
50         than a period (recommend at least 5 minutes, RFC 2579). Or another recom-
51         mended way is to delete older rows as needed based on their
52         dot11WNMRqstTimeStamp values. This can be done by the agent as well as the
53         manager. "
54     ::= { dot11WNMRequest 2 }
55
56 dot11WNMRequestEntry OBJECT-TYPE
57     SYNTAX Dot11WNMRequestEntry
58     MAX-ACCESS not-accessible
59     STATUS current
60     DESCRIPTION
61         "An entry in the dot11WNMRequestTable Indexed by dot11WNMRqstIndex."
62     INDEX { dot11WNMRqstIndex }
63     ::= { dot11WNMRequestTable 1 }
64
65 Dot11WNMRequestEntry ::=
66     SEQUENCE {
67         dot11WNMRqstIndex                               Unsigned32,

```

```

1      dot11WNMRqstRowStatus      RowStatus,
2      dot11WNMRqstToken          OCTET STRING,
3      dot11WNMRqstIfIndex        InterfaceIndex,
4      dot11WNMRqstType           INTEGER,
5      dot11WNMRqstTargetAdd      MacAddress,
6      dot11RRMRqstTimeStamp      TimeTicks,
7      dot11WNMRqstRndInterval    Unsigned32,
8      dot11WNMRqstDuration       Unsigned32,
9      dot11WNMRqstMcstGroup      MacAddress,
10     dot11WNMRqstMcstTrigCon     OCTET STRING,
11     dot11WNMRqstMcstRprtTimeout INTEGER,
12     dot11WNMRqstMcstTrigTimeout INTEGER,
13     dot11WNMRqstLCRRqstSubject  INTEGER,
14     dot11WNMRqstLCRIntervalUnits INTEGER,
15     dot11WNMRqstLCRServiceInterval INTEGER,
16     dot11WNMRqstLIRRqstSubject  INTEGER,
17     dot11WNMRqstLIRIntervalUnits INTEGER,
18     dot11WNMRqstLIRServiceInterval INTEGER,
19     dot11WNMRqstEventToken      INTEGER,
20     dot11WNMRqstEventType       INTEGER,
21     dot11WNMRqstEventResponseLimit INTEGER,
22     dot11WNMRqstEventTargetBssid MacAddress,
23     dot11WNMRqstEventSourceBssid MacAddress,
24     dot11WNMRqstEventTransitTimeThresh INTEGER,
25     dot11WNMRqstEventTransitMatchValue OCTET STRING,
26     dot11WNMRqstEventFreqTransitCountThresh INTEGER,
27     dot11WNMRqstEventFreqTransitInterval INTEGER,
28     dot11WNMRqstEventRsnaAuthType OCTET STRING,
29     dot11WNMRqstEapType         INTEGER,
30     dot11WNMRqstEapVendorId     OCTET STRING,
31     dot11WNMRqstEapVendorType   OCTET STRING,
32     dot11WNMRqstEventRsnaMatchValue OCTET STRING,
33     dot11WNMRqstEventPeerMacAddress MacAddress,
34     dot11WNMRqstChanNumber      INTEGER,
35     dot11WNMRqstRegulatoryClass  INTEGER,
36     dot11WNMRqstChanNumber      INTEGER,
37     dot11WNMRqstDiagToken       INTEGER,
38     dot11WNMRqstDiagType        INTEGER,
39     dot11WNMRqstDiagTimeout     INTEGER,
40     dot11WNMRqstDiagBssid       MacAddress,
41     dot11WNMRqstDiagProfileId   INTEGER,
42     dot11WNMRqstDiag8021xCredentials INTEGER,
43     dot11WNMRqstLCILocIndParams OCTET STRING,
44     dot11WNMRqstLCIChanList     OCTET STRING,
45     dot11WNMRqstLCIBcastRate    INTEGER,
46     dot11WNMRqstBssTransitQueryReason INTEGER,
47     dot11WNMRqstBssTransitReqMode OCTET STRING,
48     dot11WNMRqstBssTransitDisocTimer INTEGER,
49     dot11WNMRqstBssTransitValidInterval INTEGER,
50     dot11WNMRqstBssTransitCandidateList OCTET STRING,
51     dot11WNMRqstColocInterfAutoEnable TruthValue
52     dot11WNMRqstColocInterfRptTimeout INTEGER,
53     dot11WNMRqstVendorSpecific  OCTET STRING }
54
55 dot11WNMRqstIndex OBJECT-TYPE
56     SYNTAX Unsigned32
57     MAX-ACCESS not-accessible
58     STATUS current
59     DESCRIPTION
60         "Index for WNM Request elements in dot11WNMRequestTable, greater than 0."
61     ::= { dot11WNMRequestEntry 1 }
62
63 dot11WNMRqstRowStatus OBJECT-TYPE
64     SYNTAX RowStatus
65     MAX-ACCESS read-create
66     STATUS current
67     DESCRIPTION
68         "The Row Status column of the current row, used for tracking status of an
69         individual request. When this attribute is set to Active, AND a measurement
70         request can be unambiguously created based on the parameters in the
71         row, then the MLME may proceed to issue the request to its intended targets
72         when appropriate. If not, this attribute may be set to Not-ready imme-
```

```

1         diately to indicate parametric errors. However, it is the network managers
2         responsibility to correct the error. If the request is successfully issued
3         to the target STA, then the rowStatus is set to notInService."
4     REFERENCE
5         "Clause 7.3.2.21"
6     ::= { dot11WNMRequestEntry 2 }
7
8 dot11WNMRqstToken OBJECT-TYPE
9     SYNTAX OCTET STRING
10    MAX-ACCESS read-create
11    STATUS current
12    DESCRIPTION
13        "This attribute indicates a unique string to identify this request. To
14        guarantee the uniqueness of this token across multiple network managers, it
15        is recommended that this token be prefixed with the IP address of the net-
16        work manager creating this row. This token is not necessarily equivalent to
17        the measurement tokens in WNM request frames."
18    ::= { dot11WNMRequestEntry 3 }
19
20 dot11WNMRqstIfIndex OBJECT-TYPE
21    SYNTAX InterfaceIndex
22    MAX-ACCESS read-create
23    STATUS current
24    DESCRIPTION
25        "The ifIndex for this row of WNM Request to be issued on."
26    ::= { dot11WNMRequestEntry 4 }
27
28 dot11WNMRqstType OBJECT-TYPE
29    SYNTAX INTEGER {
30        mcastDiagnostics(0),
31        locationCivic(1),
32        locationIdentifier(2),
33        event(3),
34        dignostic(4)
35        LocationConfiguration(5)
36        bssTransitionQuery(6)
37        bssTransitionRqst(7)
38        fbms(8)
39        ColocInterference(9)
40    }
41    MAX-ACCESS read-create
42    STATUS current
43    DESCRIPTION
44        "This attribute indicates the request type of this WNM request row."
45    ::= { dot11WNMRequestEntry 5 }
46
47 dot11WNMRqstTargetAdd OBJECT-TYPE
48    SYNTAX MacAddress
49    MAX-ACCESS read-create
50    STATUS current
51    DESCRIPTION
52        "The MAC address of STA for this row of RRM Request is to be issued to. If
53        this attribute matches the MAC address of the dot11RRMRqstIfIndex, then
54        measurement request is for this STA itself to carry out."
55    ::= { dot11RRMRequestEntry 6 }
56
57 dot11RRMRqstTimeStamp OBJECT-TYPE
58    SYNTAX TimeTicks
59    MAX-ACCESS read-only
60    STATUS current
61    DESCRIPTION
62        "This attribute indicates the SysUpTime Value the last time when the
63        dot11RRMRqstRowStatus is set to active or when this row is created the
64        first time. This attribute shall be set by this STA or AP automatically,
65        not by an SNMP manager."
66    ::= { dot11WNMRequestEntry 7 }
67
68 dot11WNMRqstRndInterval OBJECT-TYPE
69    SYNTAX Unsigned32
70    UNITS "TUs"
71    MAX-ACCESS read-create

```

```

1      STATUS current
2      DESCRIPTION
3          "This attribute indicates the upper bound of the random delay to be used
4          prior to making the measurement, expressed in units of TUs. See 11.10.2."
5      DEFVAL { 0 }
6      ::= { dot11WNMRequestEntry 8 }
7
8  dot11WNMRqstDuration OBJECT-TYPE
9      SYNTAX Unsigned32
10     UNITS "TUs"
11     MAX-ACCESS read-create
12     STATUS current
13     DESCRIPTION
14         "This attribute indicates the preferred or mandatory measurement duration
15         for this Measurement Request. This attribute is ignored if dot11WNMRqstType
16         = LCI Request or Measurement Pause."
17     DEFVAL { 0 }
18     ::= { dot11WNMRequestEntry 9 }
19
20 dot11WNMRqstMcstGroup OBJECT-TYPE
21     SYNTAX MacAddress
22     MAX-ACCESS read-create
23     STATUS current
24     DESCRIPTION
25         "Multicast Group address indicates the MAC address of the multicast group
26         for which diagnostics are requested. The BSSID shall be set to the wild-
27         card BSSID when the measurement is to be performed on any multicast group
28         on the operating channel. This attribute is only valid if the
29         dot11WNMRqstType is 10, indicating a multicast diagnostic request, and is
30         ignored otherwise."
31     DEFVAL { 'FFFFFFFFFFFF'H }
32     ::= { dot11WNMRequestEntry 10 }
33
34 dot11WNMMcstTrigCon OBJECT-TYPE
35     SYNTAX OCTET STRING (SIZE(1))
36     MAX-ACCESS read-create
37     STATUS current
38     DESCRIPTION
39         "This attribute indicates the trigger condition for the Multicast Diag-
40         nositic request."
41     ::= { dot11WNMRequestEntry 11 }
42
43 dot11WNMRqstMcstRprtTimeout OBJECT-TYPE
44     SYNTAX INTEGER (1..255)
45     UNITS "100 TUs"
46     MAX-ACCESS read-create
47     STATUS current
48     DESCRIPTION
49         "This attribute indicates a time interval value in units of 100 TU to be
50         used as the threshold value for the Report Timeout trigger condition."
51     ::= { dot11WNMRequestEntry 12 }
52
53 dot11WNMRqstMcstTrigTimeout OBJECT-TYPE
54     SYNTAX INTEGER (1..255)
55     UNITS "100 TUs"
56     MAX-ACCESS read-create
57     STATUS current
58     DESCRIPTION
59         "This attribute indicates the time interval value in units of 100 TU dur-
60         ing which a measuring STA does not generate further Multicast Triggered
61         Reports after a trigger condition has been met."
62     ::= { dot11WNMRequestEntry 13 }
63
64 dot11WNMRqstLCRRqstSubject OBJECT-TYPE
65     SYNTAX INTEGER {
66         local(0),
67         remote(1)
68     }
69     MAX-ACCESS read-create
70     STATUS current
71     DESCRIPTION
72         "The attribute indicates the subject of the LCR request."

```

```

1      DEFVAL { 0 }
2      ::= { dot11WNMRequestEntry 14 }
3
4      dot11WNMRqstLCRIntervalUnits OBJECT-TYPE
5          SYNTAX INTEGER {
6              seconds(0),
7              minutes(1),
8              hours(2),
9              dot11RRMNeighborReportRowStatus }
10         MAX-ACCESS read-create
11         STATUS current
12         DESCRIPTION
13             "This attribute indicates the units used in the LCR Service Interval."
14         ::= { dot11WNMRequestEntry 15 }
15
16     dot11WNMRqstLCRServiceInterval OBJECT-TYPE
17         SYNTAX INTEGER (0..65535)
18         MAX-ACCESS read-only
19         STATUS current
20         DESCRIPTION
21             "This attribute indicates the periodic interval requested for periodic
22             reporting of Location Civic Reports."
23         ::= { dot11WNMRequestEntry 16 }
24
25     dot11WNMRqstLIRRqstSubject OBJECT-TYPE
26         SYNTAX INTEGER {
27             local(0),
28             remote(1)
29         }
30         MAX-ACCESS read-create
31         STATUS current
32         DESCRIPTION
33             "The SMTRRMConfig package is a set attribute indicates the subject of
34             attributes that shall be present if the STA supports the Radio Measurement
35             serviceLIR request."
36         DEFVAL { 0 }
37         ::= { dot11WNMRequestEntry 17 }
38
39     dot11WNMRqstLIRIntervalUnits OBJECT-TYPE
40         SYNTAX INTEGER {
41             seconds(0),
42             minutes(1),
43             hours(2),
44         }
45         MAX-ACCESS read-create
46         STATUS current
47         DESCRIPTION
48             "This attribute indicates the units used in the LIR Service Interval."
49         ::= { dot11WNMRequestEntry 18 }
50
51     dot11WNMRqstLIRServiceInterval OBJECT-TYPE
52         SYNTAX INTEGER (0..65535)
53         MAX-ACCESS read-only
54         STATUS current
55         DESCRIPTION
56             "This attribute indicates the periodic interval requested for periodic
57             reporting of Location Identifier Reports."
58         ::= { dot11WNMRequestEntry 19 }
59
60     dot11WNMRqstEventToken OBJECT-TYPE
61         SYNTAX INTEGER (1..255)
62         MAX-ACCESS read-create
63         STATUS current
64         DESCRIPTION
65             "This attribute indicates a unique string to identify this request."
66         ::= { dot11WNMRequestEntry 20 }
67
68     dot11WNMRqstEventType OBJECT-TYPE
69         SYNTAX INTEGER {
70             transition(0),
71             rsna(1),

```



```

1         peerToPeer(2),
2         syslog(3),
3         vendorSpecific(221)
4     }
5     MAX-ACCESS read-create
6     STATUS current
7     DESCRIPTION
8         "This attribute indicates the request type of this WNM Event request."
9     ::= { dot11WNMRequestEntry 21 }
10
11 dot11WNMRqstEventResponseLimit OBJECT-TYPE
12     SYNTAX INTEGER {0..255}
13     MAX-ACCESS read-create
14     STATUS current
15     DESCRIPTION
16         "This attribute indicates the maximum number of requested Event Reports to
17         be included in the Event Report Element."
18     ::= { dot11WNMRequestEntry 22 }
19
20 dot11WNMRqstEventTargetBssid OBJECT-TYPE
21     SYNTAX MacAddress
22     MAX-ACCESS read-create
23     STATUS current
24     DESCRIPTION
25         "This attribute is used to request that a Transition or RSNA Event Report
26         includes the event entry when the target BSSID is equal to the indicated
27         BSSID. A transition event is a STA movement or attempted movement from one
28         BSS (the source BSS) in one ESS to another BSS (the target BSS) within the
29         same ESS. The BSSID shall be set to the wildcard BSSID when the transi-
30         tions to any BSSID is requested."
31     DEFVAL { 'FFFFFFFFFFFF'H }
32     ::= { dot11WNMRequestEntry 23 }
33
34 dot11WNMRqstEventSourceBssid OBJECT-TYPE
35     SYNTAX MacAddress
36     MAX-ACCESS read-create
37     STATUS current
38     DESCRIPTION
39         "This attribute is used to request that a Transition Event Report includes
40         the transition event entry when the source BSSID is equal to the indicated
41         BSSID. A transition event is a STA movement or attempted movement from one
42         BSS (the source BSS) in one ESS to another BSS (the target BSS) within the
43         same ESS. The BSSID shall be set to the wildcard BSSID when the transi-
44         tions from any BSSID is requested."
45     DEFVAL { 'FFFFFFFFFFFF'H }
46     ::= { dot11WNMRequestEntry 24 }
47
48 dot11WNMRqstEventTransitTimeThresh OBJECT-TYPE
49     SYNTAX INTEGER (0..65535)
50     UNITS "TUs"
51     MAX-ACCESS read-create
52     STATUS current
53     DESCRIPTION
54         "This attribute indicates a value representing the transition time to be
55         used as the threshold value for the Transition Time condition in TUs. The
56         Transition Time is defined in 11.20.3.2"
57     ::= { dot11WNMRequestEntry 25 }
58
59 dot11WNMRqstEventTransitMatchValue OBJECT-TYPE
60     SYNTAX OCTET STRING (SIZE(1))
61     MAX-ACCESS read-create
62     STATUS current
63     DESCRIPTION
64         "This attribute indicates a request for the specified transition results
65         that match the bit descriptions of this field. b0 indicates match when
66         transition is successful. b1 indicates match when transition fails."
67     ::= { dot11WNMRequestEntry 26 }
68
69 dot11WNMRqstEventFreqTransitCountThresh OBJECT-TYPE
70     SYNTAX INTEGER {0..255}
71     MAX-ACCESS read-create
72     STATUS current

```

```

1      DESCRIPTION
2          "This attribute indicates the minimum number of matching transitions
3          detected in the measurement duration to generate a Transition Event
4          Report."
5      ::= { dot11WNMRequestEntry 27 }
6
7  dot11WNMRqstEventFreqTransitInterval OBJECT-TYPE
8      SYNTAX INTEGER (0..65535)
9      UNITS "TUs"
10     MAX-ACCESS read-create
11     STATUS current
12     DESCRIPTION
13         "This attribute indicates the sliding window time interval, in TUs, during
14         which the STA detects matching transitions to determine if the Frequent
15         Transition Count Threshold is exceeded in order to generate a Transition
16         Event Report. "
17     ::= { dot11WNMRequestEntry 28 }
18
19  dot11WNMRqstEventRsnaAuthType OBJECT-TYPE
20     SYNTAX OCTET STRING (SIZE(4))
21     MAX-ACCESS read-create
22     STATUS current
23     DESCRIPTION
24         "This attribute indicates one of the AKM suite selectors defined in Table
25         7-34 in 7.3.2.25.2."
26     ::= { dot11WNMRequestEntry 29 }
27
28  dot11WNMRqstEapType OBJECT-TYPE
29     SYNTAX INTEGER {0..255}
30     MAX-ACCESS read-create
31     STATUS current
32     DESCRIPTION
33         "This attribute indicates a value that identifies a single EAP method and
34         is set to any valid IANA assigned EAP type as defined at http://
35         www.iana.org/assignments/eap-numbers."
36     ::= { dot11WNMRequestEntry 30 }
37
38  dot11WNMRqstEapVendorId OBJECT-TYPE
39     SYNTAX OCTET STRING (SIZE(0..3))
40     MAX-ACCESS read-create
41     STATUS current
42     DESCRIPTION
43         "This attribute indicates a value that identifies the EAP Vendor. The EAP
44         Vendor ID field is included when EAP Type field is set to 254, and is
45         excluded otherwise."
46     ::= { dot11WNMRequestEntry 31 }
47
48  dot11WNMRqstEapVendorType OBJECT-TYPE
49     SYNTAX OCTET STRING (SIZE(0..4))
50     MAX-ACCESS read-create
51     STATUS current
52     DESCRIPTION
53         "This attribute indicates value that identifies the EAP Type as defined by
54         the vendor. The EAP Vendor Type field is included when EAP Type field is
55         set to 254, and is excluded otherwise."
56     ::= { dot11WNMRequestEntry 32 }
57
58  dot11WNMRqstEventRsnaMatchValue OBJECT-TYPE
59     SYNTAX OCTET STRING (SIZE(1))
60     MAX-ACCESS read-create
61     STATUS current
62     DESCRIPTION
63         "This attribute indicates a request for the specified transition results
64         that match the bit descriptions of this field.  b0 indicates match when
65         RSNA is successful.  b1 indicates match when RSNA fails."
66     ::= { dot11WNMRequestEntry 33 }
67
68  dot11WNMRqstEventPeerMacAddress OBJECT-TYPE
69     SYNTAX MacAddress
70     MAX-ACCESS read-create
71     STATUS current
72     DESCRIPTION

```

```

1         "This attribute is used to request that a Peer-to-peer Event Report
2         includes the transition event entry when the MAC address of the peer STA or
3         IBSS BSSID is equal to the indicated MAC address. The MAC address shall
4         be set to the wildcard BSSID when the transitions from any peer STA or IBSS
5         BSSID is requested."
6         DEFVAL { 'FFFFFFFFFFFF'H }
7         ::= { dot11WNMRequestEntry 34 }
8
9     dot11WNMRqstRegulatoryClass OBJECT-TYPE
10        SYNTAX INTEGER(1..255)
11        MAX-ACCESS read-create
12        STATUS current
13        DESCRIPTION
14            "This attribute indicates the channel set for this WNM request. Country,
15            Regulatory Class and Channel Number together specify the channel frequency
16            and spacing for this measurement request. Valid values of Regulatory Class
17            are shown in Annex J."
18        REFERENCE
19            "Annex J"
20        ::= { dot11WNMRequestEntry 35 }
21
22     dot11WNMRqstChanNumber OBJECT-TYPE
23        SYNTAX INTEGER (1..255)
24        MAX-ACCESS read-create
25        STATUS current
26        DESCRIPTION
27            "This attribute indicates the current operating channel for this WNM
28            request. The Channel Number is only defined within the indicated Regula-
29            tory Class for this WNM request."
30        ::= { dot11WNMRequestEntry 36 }
31
32     dot11WNMRqstDiagToken OBJECT-TYPE
33        SYNTAX INTEGER (1..255)
34        MAX-ACCESS read-create
35        STATUS current
36        DESCRIPTION
37            "This attribute indicates a unique string to identify this request."
38        ::= { dot11WNMRequestEntry 37 }
39
40     dot11WNMRqstDiagType OBJECT-TYPE
41        SYNTAX INTEGER {
42            cancelRequest(0),
43            manufacturerInfoStaRep(1),
44            configurationProfile(2),
45            associationDiag(3),
46            ieee8021xAuthDiag(4),
47            vendorSpecific(221)
48        }
49        MAX-ACCESS read-create
50        STATUS current
51        DESCRIPTION
52            "This attribute indicates the request type of this WNM Diagnostic request."
53        ::= { dot11WNMRequestEntry 38 }
54
55     dot11WNMRqstDiagTimeout OBJECT-TYPE
56        SYNTAX INTEGER (0..65535)
57        UNITS "seconds"
58        MAX-ACCESS read-create
59        STATUS current
60        DESCRIPTION
61            "This attribute indicates a value representing the time interval after a
62            Diagnostic Report is generated during which no additional Diagnostic
63            Reports shall be sent."
64        ::= { dot11WNMRequestEntry 39 }
65
66     dot11WNMRqstDiagBssid OBJECT-TYPE
67        SYNTAX MacAddress
68        MAX-ACCESS read-create
69        STATUS current
70        DESCRIPTION
71            "This attribute indicates a request for a Diagnostic Report from the indi-
72            cated BSSID. The BSSID shall be set to the wildcard BSSID when diagnostics

```

```

1         from any BSSID is requested."
2         DEFVAL { 'FFFFFFFFFH' }
3         ::= { dot11WNMRequestEntry 40 }
4
5 dot11WNMRqstDiagProfileId OBJECT-TYPE
6     SYNTAX INTEGER (1..255)
7     MAX-ACCESS read-create
8     STATUS current
9     DESCRIPTION
10        "This attribute indicates a unique identifier for referencing a configura-
11        tion profile available on a device. The value of the identifier can be any
12        arbitrary value, as long as it is uniquely associated to a single configu-
13        ration profile on the device sending the identifier."
14        ::= { dot11WNMRequestEntry 41 }
15
16 dot11WNMRqstDiag8021xCredentials OBJECT-TYPE
17     SYNTAX INTEGER {
18         none(0),
19         pre-sharedKey(1),
20         configurationProfile(2),
21         usernamePassword(3),
22         otherCertificate(4),
23         oneTimePassword(5),
24         token(6),
25         certificateUsernamePassword(7),
26         certificateToken(8),
27     }
28     MAX-ACCESS read-create
29     STATUS current
30     DESCRIPTION
31        "This attribute indicates the tyoe of credential used for the 8021x authen-
32        tication."
33        ::= { dot11WNMRequestEntry 42 }
34
35 dot11WNMRqstLCILocIndParams OBJECT-TYPE
36     SYNTAX OCTET STRING (SIZE(17))
37     MAX-ACCESS read-create
38     STATUS current
39     DESCRIPTION
40        "This attribute indicates STA Location reporting characteristics. The for-
41        mat of these Location Indication Parameters are detailed in 7.3.2.66.2"
42        ::= { dot11WNMRequestEntry 43 }
43
44 dot11WNMRqstLCIChanList OBJECT-TYPE
45     SYNTAX OCTET STRING (SIZE(0..255))
46     MAX-ACCESS read-create
47     STATUS current
48     DESCRIPTION
49        "This attribute lists location reporting channel information for this LCI
50        request. Zero length is the null default for this attribute. Each pair of
51        octets indicates a different regulatory class and channel number for this
52        request. The detailed format for this list of channels ls described in
53        7.3.2.66.3"
54     DEFVAL { ''H }
55     ::= { dot11WNMRequestEntry 44 }
56
57 dot11WNMRqstLCIBcastRate OBJECT-TYPE
58     SYNTAX INTEGER (0..65535)
59     UNITS "0.5Mbps"
60     MAX-ACCESS read-create
61     STATUS current
62     DESCRIPTION
63        "This attribute indicates the data rate, in 0.5Mb/s units, at which the STA
64        broadcasts Location Track Notification frames."
65     ::= { dot11WNMRequestEntry 45 }
66
67 dot11WNMRqstBssTransitQueryReason OBJECT-TYPE
68     SYNTAX INTEGER {
69         unspecified(0),
70         excessiveFrameLossRatesPoorConditions(1),
71         excessiveDelayForCurrentTrafficStreams(2),
72         insufficientQosCapacityForCurrentTrafficStreams(3),

```

```

1         firstAssociationToEss(4),
2         loadBalancing(5),
3         betteApFound(6),
4         deauthenticatedDisassociatedFromPreviousAp(7),
5         certificateToken(8),
6         apFailedIeee8021XEapAuthentication(9),
7         apFailed4wayHandshake(10),
8         excessiveDataMICFailures(11),
9         exceededFrameTransmissionRetryLimit(12),
10        excessiveBroadcastDisassociations(13),
11        excessiveBroadcastDeauthentications(14),
12        previousTransitionFailed(15),
13        }
14    MAX-ACCESS read-create
15    STATUS current
16    DESCRIPTION
17        "This attribute indicates the reason for the BSS Transition Query. The
18        format for this list of reasons is further detailed in 7.3.2.63.2."
19    ::= { dot11WNMRequestEntry 46 }
20
21    dot11WNMRqstBssTransitReqMode OBJECT-TYPE
22    SYNTAX OCTET STRING (SIZE(1))
23    MAX-ACCESS read-create
24    STATUS current
25    DESCRIPTION
26        "This attribute indicates the type of BSS request transition. b0 indi-
27        cates the Preferred Candidate list is included in this frame. b1 indicates
28        sn sbridged format for all BSSIDs not listed in this frame. b2 indicates
29        that the STA will be disassociated for the current A. The format for this
30        field is detailed in 7.4.11.8."
31    ::= { dot11WNMRequestEntry 47 }
32
33    dot11WNMRqstBssTransitDisocTimer OBJECT-TYPE
34    SYNTAX INTEGER (1..255)
35    UNITS "TBTTs"
36    MAX-ACCESS read-create
37    STATUS current
38    DESCRIPTION
39        "This attribute indicates the number of beacon transmission times (TBTTs)
40        until the serving AP sends a Disassociation frame to this STA. If the Dis-
41        association Imminent bit of the Request Mode field is set to 0, this field
42        is ignored."
43    ::= { dot11WNMRequestEntry 48 }
44
45    dot11WNMRqstBssTransitValidityInterval OBJECT-TYPE
46    SYNTAX INTEGER (1..255)
47    UNITS "TBTTs"
48    MAX-ACCESS read-create
49    STATUS current
50    DESCRIPTION
51        "This attribute indicates the number of beacon transmission times (TBTTs)
52        until this recommendation of this BSS transition candidate is no longer
53        valid."
54    ::= { dot11WNMRequestEntry 49 }
55
56    dot11WNMRqstBssTransitCandidateList OBJECT-TYPE
57    SYNTAX OCTET STRING (SIZE(0..2304))
58    MAX-ACCESS read-create
59    STATUS current
60    DESCRIPTION
61        "This attribute lists one or more Neighbor Report elements described in
62        7.3.2.37. If the STA has no Transition Candidate information in response to
63        the BSS Transition Management Query frame, the candidate list size is set
64        to 0. "
65    ::= { dot11WNMRequestEntry 50 }
66
67    dot11WNMRqstColocInterfAutoEnable OBJECT-TYPE
68    SYNTAX TruthValue
69    MAX-ACCESS read-create
70    STATUS current
71    DESCRIPTION
72        "This attribute, when TRUE, indicates that the requesting STA requests the

```

```

1         receiving STA to send the Co-located Interference Response frames automati-
2         cally with the Report Period interval, as defined in 7.4.11.13, or when the
3         STA detects a change in the co-located interference."
4         ::= { dot11WNMRequestEntry 51 }
5
6 dot11WNMRqstColocInterfRptTimeout OBJECT-TYPE
7     SYNTAX INTEGER (0..127)
8     UNITS "100 TUs"
9     MAX-ACCESS read-create
10    STATUS current
11    DESCRIPTION
12        "This attribute indicates the minimum duration between two consecutive Co-
13        located Interference Response frames from the reporting STA."
14    ::= { dot11WNMRequestEntry 52 }
15
16 dot11WNMRqstVendorSpecific OBJECT-TYPE
17     SYNTAX OCTET STRING (SIZE(0..255))
18     MAX-ACCESS read-create
19     STATUS current
20     DESCRIPTION
21        "This attribute provides an envelope for any optional vendor specific sub-
22        elements which may be included in a WNM request element. Zero length is the
23        null default for this attribute."
24     DEFVAL { 'H' }
25     ::= { dot11WNMRequestEntry 53 }
26
27 -- *****
28 -- * End of dot11WNMRequest TABLE
29 -- *****
30
31 -- *****
32 -- * Wireless Network Management Reports:
33 -- * Report tables contain WNM reports received by this STA or
34 -- * results of WNM requests performed by this STA.
35 -- *****
36
37 dot11WNMReport OBJECT IDENTIFIER ::= { dot11WirelessNetworkManagement 2 }
38
39 -- *****
40 -- * dot11WNMVendorSpecificReport TABLE
41 -- *****
42
43 dot11WNMVendorSpecificReportTable OBJECT-TYPE
44     SYNTAX SEQUENCE OF Dot11WNMVendorSpecificReportEntry
45     MAX-ACCESS not-accessible
46     STATUS current
47     DESCRIPTION
48        "Group contains the current list of Vendor Specific reports that have been
49        received by the MLME. The report tables shall be maintained as FIFO to pre-
50        serve freshness, thus the rows in this table can be deleted for memory con-
51        straints or other implementation constraints determined by the vendor. New
52        rows shall have different RprtIndex values than those deleted within the
53        range limitation of the index. One easy way is to monotonically increase
54        RprtIndex for new reports being written in the table."
55     ::= { dot11WNMReport 1 }
56
57 dot11WNMVendorSpecificReportEntry OBJECT-TYPE
58     SYNTAX Dot11WNMVendorSpecificReportEntry
59     MAX-ACCESS not-accessible
60     STATUS current
61     DESCRIPTION
62        "An entry in the dot11WNMVendorSpecificReportTable Indexed by
63        dot11WNMVendorSpecificRprtIndex."
64     INDEX { dot11WNMVendorSpecificRprtIndex }
65     ::= { dot11WNMVendorSpecificReportTable 1 }
66
67 Dot11WNMVendorSpecificReportEntry ::=
68     SEQUENCE {
69         dot11WNMVendorSpecificRprtIndex          Unsigned32,
70         dot11WNMVendorSpecificRprtRqstToken     OCTET STRING,
71         dot11WNMVendorSpecificRprtIfIndex       InterfaceIndex,
72         dot11WNMVendorSpecificRprtContent       OCTET STRING }

```

```

1  dot11WNMVendorSpecificRprtIndex OBJECT-TYPE
2      SYNTAX Unsigned32
3      MAX-ACCESS not-accessible
4      STATUS current
5      DESCRIPTION
6          "Index for Vendor Specific Report elements in
7          dot11WNMVendorSpecificReportTable, greater than 0."
8      ::= { dot11WNMVendorSpecificReportEntry 1 }
9
10 dot11WNMVendorSpecificRprtRqstToken OBJECT-TYPE
11     SYNTAX OCTET STRING
12     MAX-ACCESS read-only
13     STATUS current
14     DESCRIPTION
15         "This attribute indicates the request token that was indicated in the WNM
16         request that generated this measurement report. This should be an exact
17         match to the original dot11WNMRqstToken attribute. Note that there may be
18         multiple entries in the table that match this value since a single request
19         may generate multiple WNM reports."
20     ::= { dot11WNMVendorSpecificReportEntry 2 }
21
22 dot11WNMVendorSpecificRprtIfIndex OBJECT-TYPE
23     SYNTAX InterfaceIndex
24     MAX-ACCESS read-only
25     STATUS current
26     DESCRIPTION
27         "The ifIndex for this row of WNMVendorSpecific Report has been received
28         on."
29     ::= { dot11WNMVendorSpecificReportEntry 3 }
30
31 dot11WNMVendorSpecificRprtContent OBJECT-TYPE
32     SYNTAX OCTET STRING (SIZE(0..255))
33     MAX-ACCESS read-create
34     STATUS current
35     DESCRIPTION
36         "This attribute provides an envelope for all the vendor specific sub-ele-
37         ments which may be included in a WNM Vendor Specific request element. Zero
38         length is the null default for this attribute."
39     DEFVAL { 'H' }
40     ::= { dot11WNMVendorSpecificReportEntry 4 }
41
42 -- *****
43 -- * End of dot11WNMVendorSpecificReport TABLE
44 -- *****
45
46 -- *****
47 -- * dot11WNMMulticastDiagnosticReport TABLE
48 -- *****
49     dot11WNMMulticastDiagnosticReportTable OBJECT-TYPE
50     SYNTAX SEQUENCE OF Dot11WNMMulticastDiagnosticReportEntry
51     MAX-ACCESS not-accessible
52     STATUS current
53     DESCRIPTION
54         "Group contains the current list of Multicast Diagnostic reports that have
55         been received by the MLME. The report tables shall be maintained as FIFO to
56         preserve freshness, thus the rows in this table can be deleted for memory
57         constraints or other implementation constraints determined by the vendor.
58         New rows shall have different RprtIndex values than those deleted within
59         the range limitation of the index. One easy way is to monotonically
60         increase RprtIndex for new reports being written in the table."
61     ::= { dot11WNMReport 2 }
62
63 dot11WNMMulticastDiagnosticReportEntry OBJECT-TYPE
64     SYNTAX Dot11WNMMulticastDiagnosticReportEntry
65     MAX-ACCESS not-accessible
66     STATUS current
67     DESCRIPTION
68         "An entry in the dot11WNMMulticastDiagnosticReportTable Indexed by
69         dot11WNMMulticastDiagnosticRprtIndex."
70     INDEX { dot11WNMMulticastDiagnosticRprtIndex }
71     ::= { dot11WNMMulticastDiagnosticReportTable 1 }

```

```

1  Dot11WNMMulticastDiagnosticReportEntry ::=
2      SEQUENCE {
3          dot11WNMMulticastDiagnosticRprtIndex          Unsigned32,
4          dot11WNMMulticastDiagnosticRprtRqstToken      OCTET STRING,
5          dot11WNMMulticastDiagnosticRprtIfIndex        InterfaceIndex,
6          dot11WNMMulticastDiagnosticRprtMeasurementTime TSFType,
7          dot11WNMMulticastDiagnosticRprtDuration       Unsigned32,
8          dot11WNMMulticastDiagnosticRprtMcstGroup      MacAddress,
9          dot11WNMMulticastDiagnosticRprtReason         OCTET STRING,
10         dot11WNMMulticastDiagnosticRprtRcvdMsduCount  Unsigned32,
11         dot11WNMMulticastDiagnosticRprtFirstSeqNumber INTEGER,
12         dot11WNMMulticastDiagnosticRprtLastSeqNumber  INTEGER,
13         dot11WNMMulticastDiagnosticRprtMcstRate       INTEGER }
14
15  dot11WNMMulticastDiagnosticRprtIndex OBJECT-TYPE
16      SYNTAX Unsigned32
17      MAX-ACCESS not-accessible
18      STATUS current
19      DESCRIPTION
20          "Index for Multicast Diagnostic Report elements in
21          dot11WNMMulticastDiagnosticReportTable, greater than 0."
22      ::= { dot11WNMMulticastDiagnosticReportEntry 1 }
23
24  dot11WNMMulticastDiagnosticRprtRqstToken OBJECT-TYPE
25      SYNTAX OCTET STRING
26      MAX-ACCESS read-only
27      STATUS current
28      DESCRIPTION
29          "This attribute indicates the request token that was indicated in the WNM
30          request that generated this measurement report. This should be an exact
31          match to the original dot11WNMRqstToken attribute. Note that there may be
32          multiple entries in the table that match this value since a single request
33          may generate multiple WNM reports."
34      ::= { dot11WNMMulticastDiagnosticReportEntry 2 }
35
36  dot11WNMMulticastDiagnosticRprtIfIndex OBJECT-TYPE
37      SYNTAX InterfaceIndex
38      MAX-ACCESS read-only
39      STATUS current
40      DESCRIPTION
41          "The ifIndex for this row of WNMMulticastDiagnostic Report has been
42          received on."
43      ::= { dot11WNMMulticastDiagnosticReportEntry 3 }
44
45  dot11WNMMulticastDiagnosticRprtMeasurementTime OBJECT-TYPE
46      SYNTAX TSFType
47      MAX-ACCESS read-only
48      STATUS current
49      DESCRIPTION
50          "This attribute indicates the TSF value at the time when the
51          measurement started."
52      ::= { dot11WNMMulticastDiagnosticReportEntry 4 }
53
54  dot11WNMMulticastDiagnosticRprtDuration OBJECT-TYPE
55      SYNTAX Unsigned32
56      UNITS "TUs"
57      MAX-ACCESS read-create
58      STATUS current
59      DESCRIPTION
60          "This attribute indicates the actual duration used for this Measurement
61          Request. This attribute is ignored if dot11WNMRqstType = LCI Request or
62          Measurement Pause."
63      DEFVAL { 0 }
64      ::= { dot11WNMMulticastDiagnosticReportEntry 5 }
65
66  dot11WNMMulticastDiagnosticRprtMcstGroup OBJECT-TYPE
67      SYNTAX MacAddress
68      MAX-ACCESS read-create
69      STATUS current
70      DESCRIPTION
71          "Multicast Group address indicates the MAC address of the multicast group
72          for for this report element."

```



```

1      DEFVAL { 'FFFFFFFFFFFF'H }
2      ::= { dot11WNMMulticastDiagnosticReportEntry 6 }
3
4  dot11WNMMulticastDiagnosticRprtReason OBJECT-TYPE
5      SYNTAX OCTET STRING (SIZE(1))
6      MAX-ACCESS read-create
7      STATUS current
8      DESCRIPTION
9          "This attribute indicates the reason why the measuring STA sent the Multi-
10         cast Diagnostics report.  b0 indicates Report Timeout Trigger.  b1 indi-
11         cates the Performance Measurement.  These are defined further in
12         7.3.22.10a."
13      ::= { dot11WNMMulticastDiagnosticReportEntry 7 }
14
15 dot11WNMMulticastDiagnosticRprtRcvdMsduCount OBJECT-TYPE
16     SYNTAX Unsigned32
17     MAX-ACCESS read-create
18     STATUS current
19     DESCRIPTION
20         "This attribute indicates the total number of multicast MSDUs with the
21         indicated Multicast MAC Address that were received during the Measurement
22         Duration.  For a triggered multicast diagnostics measurement this is the
23         total number of frames received with the indicated Multicast MAC Address."
24     DEFVAL { 0 }
25     ::= { dot11WNMMulticastDiagnosticReportEntry 8 }
26
27 dot11WNMMulticastDiagnosticRprtFirstSeqNumber OBJECT-TYPE
28     SYNTAX INTEGER (0..65535)
29     MAX-ACCESS read-only
30     STATUS current
31     DESCRIPTION
32         "This attribute indicates the twelve least significant bits of the First
33         Sequence Number field contain the IEEE 802.11 sequence number of the first
34         frame received with destination address equal to the value in the Multi-
35         cast MAC address field during the measurement period.  The four most signif-
36         icant bits of the First Sequence Number field are set to zero.  This field is
37         used only if the multicast reporting reason is performance measurement;
38         otherwise, it is set to 0."
39     DEFVAL { 0 }
40     ::= { dot11WNMMulticastDiagnosticReportEntry 9 }
41
42 dot11WNMMulticastDiagnosticRprtLastSeqNumber OBJECT-TYPE
43     SYNTAX INTEGER (0..65535)
44     MAX-ACCESS read-only
45     STATUS current
46     DESCRIPTION
47         "This attribute indicates the twelve least significant bits of the Last
48         Sequence Number field is the IEEE 802.11 sequence number of the last frame
49         received with destination address equal to the value in the Multicast MAC
50         address field during the measurement period.  The four most significant bits
51         of the Last Sequence Number field are set to zero.  This field is used only
52         if the multicast reporting reason is performance measurement; otherwise, it
53         is set to 0."
54     DEFVAL { 0 }
55     ::= { dot11Groups 39 dot11WNMMulticastDiagnosticReportEntry 10 }
56
57 dot11WNMMulticastDiagnosticRprtMcstRate OBJECT-TYPE
58     SYNTAX INTEGER (0..65535)
59     UNITS "0.5Mbps"
60     MAX-ACCESS read-create
61     STATUS current
62     DESCRIPTION
63         "This attribute indicates the data rate, in 0.5 Mb/s units, at which the
64         STA requests to receive group addressed frames.  The Multicast Rate field is
65         encoded with the MSB set to 1 to indicate that the data rate is in the
66         basic rate set, and set to 0 to indicate that the data rate is not in the
67         basic rate set.  The remaining 15 bit value is multiplied by 0.5 Mb/s to
68         indicate the data rate.  The Multicast Rate field is set to 0 by the STA to
69         indicate that it has not received a group addressed frame with a valid FCS
70         during the measurement period."
71     ::= { dot11WNMMulticastDiagnosticReportEntry 11 }

```

```

1
2 -- *****
3 -- * End of dot11WNMMulticastDiagnosticReport TABLE
4 -- *****
5
6 -- *****
7 -- * dot11WNMLocationCivicReport TABLE
8 -- *****
9     dot11WNMLocationCivicReportTable OBJECT-TYPE
10     SYNTAX SEQUENCE OF Dot11WNMLocationCivicReportEntry
11     MAX-ACCESS not-accessible
12     STATUS current
13     DESCRIPTION
14         "Group contains the current list of Location Civic reports that have been
15         received by the MLME. The report tables shall be maintained as FIFO to pre-
16         serve freshness, thus the rows in this table can be deleted for memory con-
17         straints or other implementation constraints determined by the vendor. New
18         rows shall have different RprtIndex values than those deleted within the
19         range limitation of the index. One easy way is to monotonically increase
20         RprtIndex for new reports being written in the table."
21     ::= { dot11WNMReport 3 }
22
23 dot11WNMLocationCivicReportEntry OBJECT-TYPE
24     SYNTAX Dot11WNMLocationCivicReportEntry
25     MAX-ACCESS not-accessible
26     STATUS current
27     DESCRIPTION
28         "An entry in the dot11WNMLocationCivicReportTable Indexed by
29         dot11WNMLocationCivicRprtIndex."
30     INDEX { dot11WNMLocationCivicRprtIndex }
31     ::= { dot11WNMLocationCivicReportTable 1 }
32
33 Dot11WNMLocationCivicReportEntry ::=
34     SEQUENCE {
35         dot11WNMLocationCivicRprtIndex                Unsigned32,
36         dot11WNMLocationCivicRprtRqstToken           OCTET STRING,
37         dot11WNMLocationCivicRprtIfIndex             InterfaceIndex,
38         dot11WNMLocationCivicRprtContent             OCTET STRING,
39         dot11WNMLocationCivicRprtLocXAccuracy        INTEGER,
40         dot11WNMLocationCivicRprtLocYAccuracy        INTEGER,
41         dot11WNMLocationCivicRprtLocZAccuracy        INTEGER,
42         dot11WNMLocationCivicRprtCivicLocation      OCTET STRING }
43
44 dot11WNMLocationCivicRprtIndex OBJECT-TYPE
45     SYNTAX Unsigned32
46     MAX-ACCESS not-accessible
47     STATUS current
48     DESCRIPTION
49         "Index for Location Civic Report elements in
50         dot11WNMLocationCivicReportTable, greater than 0."
51     ::= { dot11WNMLocationCivicReportEntry 1 }
52
53 dot11WNMLocationCivicRprtRqstToken OBJECT-TYPE
54     SYNTAX OCTET STRING
55     MAX-ACCESS read-only
56     STATUS current
57     DESCRIPTION
58         "This attribute indicates the request token that was indicated in the WNM
59         request that generated this measurement report. This should be an exact
60         match to the original dot11WNMRqstToken attribute. Note that there may be
61         multiple entries in the table that match this value since a single request
62         may generate multiple WNM reports."
63     ::= { dot11WNMLocationCivicReportEntry 2 }
64
65 dot11WNMLocationCivicRprtIfIndex OBJECT-TYPE
66     SYNTAX InterfaceIndex
67     MAX-ACCESS read-only
68     STATUS current
69     DESCRIPTION
70         "The ifIndex for this row of WNMLocationCivic Report has been received on."
71     ::= { dot11WNMLocationCivicReportEntry 3 }

```

```

1 dot11WNMLocationCivicRprtLocXAccuracy OBJECT-TYPE
2     SYNTAX INTEGER (0..65535)
3     UNITS "0.1M"
4     MAX-ACCESS read-create
5     STATUS current
6     DESCRIPTION
7         "This attribute indicates an estimated accuracy in the X-dimension in 0.1
8         meter increments, defined by a little endian 16 bit unsigned integer. For
9         example, an accuracy estimate of +/- 5 meters is represented by the number
10        X'32'. If the location accuracy estimate in the X-dimension is unknown the
11        field is set to 65535."
12        DEFVAL { 65535 }
13        ::= { dot11WNMLocationCivicReportEntry 4 }
14
15 dot11WNMLocationCivicRprtLocYAccuracy OBJECT-TYPE
16     SYNTAX INTEGER (0..65535)
17     UNITS "0.1M"
18     MAX-ACCESS read-create
19     STATUS current
20     DESCRIPTION
21         "This attribute indicates an estimated accuracy in the Y-dimension in 0.1
22         meter increments, defined by a little endian 16 bit unsigned integer. For
23         example, an accuracy estimate of +/- 5 meters is represented by the number
24         X'32'. If the location accuracy estimate in the Y-dimension is unknown the
25         field is set to 65535."
26         DEFVAL { 65535 }
27         ::= { dot11WNMLocationCivicReportEntry 5 }
28
29 dot11WNMLocationCivicRprtLocZAccuracy OBJECT-TYPE
30     SYNTAX INTEGER (0..65535)
31     UNITS "0.1M"
32     MAX-ACCESS read-create
33     STATUS current
34     DESCRIPTION
35         "This attribute indicates an estimated accuracy in the Z-dimension in 0.1
36         meter increments, defined by a little endian 16 bit unsigned integer. For
37         example, an accuracy estimate of +/- 5 meters is represented by the number
38         X'32'. If the location accuracy estimate in the Z-dimension is unknown the
39         field is set to 65535."
40         DEFVAL { 65535 }
41         ::= { dot11WNMLocationCivicReportEntry 6 }
42
43 dot11WNMLocationCivicRprtCivicLocation OBJECT-TYPE
44     SYNTAX OCTET STRING
45     MAX-ACCESS read-create
46     STATUS current
47     DESCRIPTION
48         "This attribute indicates a variable octet field in wich the format of the
49         data is defined in RFC 4776."
50         ::= { dot11WNMLocationCivicReportEntry 7 }
51
52 -- *****
53 -- * End of dot11WNMLocationCivicReport TABLE
54 -- *****
55
56 -- *****
57 -- * dot11WNMLocationIdentifierReport TABLE
58 -- *****
59
60 dot11WNMLocationIdentifierReportTable OBJECT-TYPE
61     SYNTAX SEQUENCE OF Dot11WNMLocationIdentifierReportEntry
62     MAX-ACCESS not-accessible
63     STATUS current
64     DESCRIPTION
65         "Group contains the current list of Location Identifier reports that have
66         been received by the MLME. The report tables shall be maintained as FIFO to
67         preserve freshness, thus the rows in this table can be deleted for memory
68         constraints or other implementation constraints determined by the vendor.
69         New rows shall have different RprtIndex values than those deleted within
70         the range limitation of the index. One easy way is to monotonically
71         increase RprtIndex for new reports being written in the table."
72         ::= { dot11WNMLocationIdentifierReport 4 }

```

```

1  dot11WNMLocationIdentifierReportEntry OBJECT-TYPE
2      SYNTAX Dot11WNMLocationIdentifierReportEntry
3      MAX-ACCESS not-accessible
4      STATUS current
5      DESCRIPTION
6          "An entry in the dot11WNMLocationIdentifierReportTable Indexed by
7          dot11WNMLocationIdentifierRprtIndex."
8      INDEX { dot11WNMLocationIdentifierRprtIndex }
9      ::= { dot11WNMLocationIdentifierReportTable 1 }
10
11 Dot11WNMLocationIdentifierReportEntry ::=
12     SEQUENCE {
13         dot11WNMLocationIdentifierRprtIndex                Unsigned32,
14         dot11WNMLocationIdentifierRprtRqstToken           OCTET STRING,
15         dot11WNMLocationIdentifierRprtIfIndex             InterfaceIndex,
16         dot11WNMLocationIdentifierRprtPublicIdUri         OCTET STRING }
17
18 dot11WNMLocationIdentifierRprtIndex OBJECT-TYPE
19     SYNTAX Unsigned32
20     MAX-ACCESS not-accessible
21     STATUS current
22     DESCRIPTION
23         "Index for Location Identifier Report elements in
24         dot11WNMLocationIdentifierReportTable, greater than 0."
25     ::= { dot11WNMLocationIdentifierReportEntry 1 }
26
27 dot11WNMLocationIdentifierRprtRqstToken OBJECT-TYPE
28     SYNTAX OCTET STRING
29     MAX-ACCESS read-only
30     STATUS current
31     DESCRIPTION
32         "This attribute indicates the request token that was indicated in the WNM
33         request that generated this measurement report. This should be an exact
34         match to the original dot11WNMRqstToken attribute. Note that there may be
35         multiple entries in the table that match this value since a single request
36         may generate multiple WNM reports."
37     ::= { dot11WNMLocationIdentifierReportEntry 2 }
38
39 dot11WNMLocationIdentifierRprtIfIndex OBJECT-TYPE
40     SYNTAX InterfaceIndex
41     MAX-ACCESS read-only
42     STATUS current
43     DESCRIPTION
44         "The ifIndex for this row of WNMLocationIdentifier Report has been received
45         on."
46     ::= { dot11WNMLocationIdentifierReportEntry 3 }
47
48 dot11WNMLocationIdentifierRprtPublicIdUri OBJECT-TYPE
49     SYNTAX OCTET STRING
50     MAX-ACCESS read-create
51     STATUS current
52     DESCRIPTION
53         "This attribute indicates a variable octet field in URI (aka URL) format,
54         provided to comply with RFC 3693."
55     ::= { dot11WNMLocationIdentifierReportEntry 4 }
56
57 -- *****
58 -- * End of dot11WNMLocationIdentifierReport TABLE
59 -- *****
60
61 -- *****
62 -- * dot11WNMEventTransitReport TABLE
63 -- *****
64
65 dot11WNMEventTransitReportTable OBJECT-TYPE
66     SYNTAX SEQUENCE OF Dot11WNMEventTransitReportEntry
67     MAX-ACCESS not-accessible
68     STATUS current
69     DESCRIPTION
70         "Group contains the current list of Transition Event reports that have been
71         received by the MLME. The report tables shall be maintained as FIFO to pre-
72         serve freshness, thus the rows in this table can be deleted for memory con-
73         straints or other implementation constraints determined by the vendor. New

```

```

1         rows shall have different RprtIndex values than those deleted within the
2         range limitation of the index. One easy way is to monotonically increase
3         RprtIndex for new reports being written in the table."
4     ::= { dot11WNMReport 5 }
5
6 dot11WNMEventTransitReportEntry OBJECT-TYPE
7     SYNTAX Dot11WNMEventTransitReportEntry
8     MAX-ACCESS not-accessible
9     STATUS current
10    DESCRIPTION
11        "An entry in the dot11WNMEventTransitReportTable Indexed by
12        dot11WNMEventTransitRprtIndex."
13    INDEX { dot11WNMEventTransitRprtIndex }
14    ::= { dot11WNMEventTransitReportTable 1 }
15
16 Dot11WNMEventTransitReportEntry ::=
17     SEQUENCE {
18         dot11WNMEventTransitRprtIndex                Unsigned32,
19         dot11WNMEventTransitRprtRqstToken           OCTET STRING,
20         dot11WNMEventTransitRprtIfIndex             InterfaceIndex,
21         dot11WNMEventTransitRprtSourceBssid         MacAddress,
22         dot11WNMEventTransitRprtTargetBssid         MacAddress,
23         dot11WNMEventTransitRprtTransitTime         INTEGER,
24         dot11WNMEventTransitRprtTransitReason       INTEGER,
25         dot11WNMEventTransitRprtTransitResult       INTEGER,
26         dot11WNMEventTransitRprtSourceRCPI         INTEGER,
27         dot11WNMEventTransitRprtSourceRSNI          INTEGER,
28         dot11WNMEventTransitRprtTargetRCPI          INTEGER,
29         dot11WNMEventTransitRprtTargetRSNI          INTEGER }
30
31 dot11WNMEventTransitRprtIndex OBJECT-TYPE
32     SYNTAX Unsigned32
33     MAX-ACCESS not-accessible
34     STATUS current
35     DESCRIPTION
36         "Index for Transition Event Report elements in
37         dot11WNMEventTransitReportTable, greater than 0."
38     ::= { dot11WNMEventTransitReportEntry 1 }
39
40 dot11WNMEventTransitRprtRqstToken OBJECT-TYPE
41     SYNTAX OCTET STRING
42     MAX-ACCESS read-only
43     STATUS current
44     DESCRIPTION
45         "This attribute indicates the request token that was indicated in the WNM
46         request that generated this measurement report. This should be an exact
47         match to the original dot11WNMRqstToken attribute. Note that there may be
48         multiple entries in the table that match this value since a single request
49         may generate multiple WNM reports."
50     ::= { dot11WNMEventTransitReportEntry 2 }
51
52 dot11WNMEventTransitRprtIfIndex OBJECT-TYPE
53     SYNTAX InterfaceIndex
54     MAX-ACCESS read-only
55     STATUS current
56     DESCRIPTION
57         "The ifIndex for this row of WNMEventTransit Report has been received on."
58     ::= { dot11WNMEventTransitReportEntry 3 }
59
60 dot11WNMEventTransitRprtSourceBssid OBJECT-TYPE
61     SYNTAX MacAddress
62     MAX-ACCESS read-create
63     STATUS current
64     DESCRIPTION
65         "This attribute indicates the source BSSID for the reported transition
66         event."
67     ::= { dot11WNMEventTransitReportEntry 4 }
68
69 dot11WNMEventTransitRprtTargetBssid OBJECT-TYPE
70     SYNTAX MacAddress
71     MAX-ACCESS read-create
72     STATUS current

```

```

1      DESCRIPTION
2          "This attribute indicates the target BSSID for the reported transition
3          event."
4      ::= { dot11WNMEventTransitReportEntry 5 }
5
6  dot11WNMEventTransitRprtTransitTime OBJECT-TYPE
7      SYNTAX INTEGER (0..65535)
8      UNITS "TUs"
9      MAX-ACCESS read-create
10     STATUS current
11     DESCRIPTION
12         "This attribute indicates the transition time for the reported transition
13         event in TUs. The Transition time is defined as the time difference between
14         the starting time and the ending time of a transition between APs, even if
15         the transition results in remaining on the same AP. Start and end times for
16         a transition event are defined in 11.20.3.2"
17     ::= { dot11WNMEventTransitReportEntry 6 }
18
19  dot11WNMEventTransitRprtTransitReason OBJECT-TYPE
20     SYNTAX INTEGER {
21         unspecified(0),
22         excessiveFrameLossRatesPoorConditions(1),
23         excessiveDelayForCurrentTrafficStreams(2),
24         insufficientQosCapacityForCurrentTrafficStreams(3),
25         firstAssociationToEss(4),
26         loadBalancing(5),
27         betterApFound(6),
28         deauthenticatedDisassociatedFromPreviousAp(7),
29         certificateToken(8),
30         apFailedIeee8021XEapAuthentication(9),
31         apFailed4wayHandshake(10),
32         excessiveDataMICFailures(11),
33         exceededFrameTransmissionRetryLimit(12),
34         excessiveBroadcastDisassociations(13),
35         excessiveBroadcastDeauthentications(14),
36         previousTransitionFailed(15),
37     }
38     MAX-ACCESS read-create
39     STATUS current
40     DESCRIPTION
41         "This attribute indicates the reason for the reported BSS Transition event.
42         The format for this list of reasons is further detailed in 7.3.2.63.2."
43     ::= { dot11WNMEventTransitReportEntry 7 }
44
45  dot11WNMEventTransitRprtTransitResult OBJECT-TYPE
46     SYNTAX INTEGER (0..65535)
47     UNITS "TUs"
48     MAX-ACCESS read-create
49     STATUS current
50     DESCRIPTION
51         "This attribute indicates the result of the attempted transition and is set
52         to one of the Status Codes specified in Table7-23 in 7.3.1.9."
53     ::= { dot11WNMEventTransitReportEntry 8 }
54
55  dot11WNMEventTransitRprtSourceRCPI OBJECT-TYPE
56     SYNTAX INTEGER(0..255)
57     MAX-ACCESS read-only
58     STATUS current
59     DESCRIPTION
60         "This attribute indicates the received channel power of the most recently
61         measured frame from the Source BSSID before the STA reassociates to the
62         Target BSSID. The Source RCPI is reported in dBm, as defined in the RCPI
63         measurement clause for the PHY Type."
64     ::= { dot11WNMEventTransitReportEntry 9 }
65
66  dot11WNMEventTransitRprtSourceRSNI OBJECT-TYPE
67     SYNTAX INTEGER(0..255)
68     UNITS "0.5 dB"
69     MAX-ACCESS read-only
70     STATUS current
71     DESCRIPTION
72         "This attribute indicates the received signal to noise indication of the

```

```

1         most recently measured frame from the Source BSSID before the STA reassoci-
2         ates to the Target BSSID. The Source RSNI is reported in dB, as defined in
3         7.3.2.41."
4         ::= { dot11WNMEventTransitReportEntry 10 }
5
6 dot11WNMEventTransitRprtTargetRCPI OBJECT-TYPE
7     SYNTAX INTEGER(0..255)
8     MAX-ACCESS read-only
9     STATUS current
10    DESCRIPTION
11        "This attribute indicates the received channel power of the first measured
12        frame just after STA reassociates to the Target BSSID. If association with
13        target BSSID failed, the Target RCPI field indicates the received channel
14        power of the most recently measured frame from the Target BSSID. The Tar-
15        get RCPI is reported in dBm, as defined in the RCPI measurement clause for
16        the PHY Type."
17    ::= { dot11WNMEventTransitReportEntry 11 }
18
19 dot11WNMEventTransitRprtTargetRSNI OBJECT-TYPE
20     SYNTAX INTEGER(0..255)
21     UNITS "0.5 dB"
22     MAX-ACCESS read-only
23     STATUS current
24     DESCRIPTION
25        "This attribute indicates the received signal to noise indication of the
26        first measured frame just after STA reassociates to the Target BSSID. If
27        association with target BSSID failed, the Target RCPI field indicates the
28        received signal to noise indication of the most recently measured frame
29        from the Target BSSID. The Target RSNI is reported in dB, as defined in
30        7.3.2.41."
31    ::= { dot11WNMEventTransitReportEntry 12 }
32
33 -- *****
34 -- * End of dot11WNMEventTransitReport TABLE
35 -- *****
36
37 -- *****
38 -- * dot11WNMEventRsnaReport TABLE
39 -- *****
40
41 dot11WNMEventRsnaReportTable OBJECT-TYPE
42     SYNTAX SEQUENCE OF Dot11WNMEventRsnaReportEntry
43     MAX-ACCESS not-accessible
44     STATUS current
45     DESCRIPTION
46        "Group contains the current list of RSNA Event reports that have been
47        received by the MLME. The report tables shall be maintained as FIFO to pre-
48        serve freshness, thus the rows in this table can be deleted for memory con-
49        straints or other implementation constraints determined by the vendor. New
50        rows shall have different RprtIndex values than those deleted within the
51        range limitation of the index. One easy way is to monotonically increase
52        RprtIndex for new reports being written in the table."
53    ::= { dot11WNMReport 6 }
54
55 dot11WNMEventRsnaReportEntry OBJECT-TYPE
56     SYNTAX Dot11WNMEventRsnaReportEntry
57     MAX-ACCESS not-accessible
58     STATUS current
59     DESCRIPTION
60        "An entry in the dot11WNMEventRsnaReportTable Indexed by
61        dot11WNMEventRsnaRprtIndex."
62     INDEX { dot11WNMEventRsnaRprtIndex }
63     ::= { dot11WNMEventRsnaReportTable 1 }
64
65 Dot11WNMEventRsnaReportEntry ::=
66     SEQUENCE {
67         dot11WNMEventRsnaRprtIndex                Unsigned32,
68         dot11WNMEventRsnaRprtRqstToken            OCTET STRING,
69         dot11WNMEventRsnaRprtIfIndex              InterfaceIndex,
70         dot11WNMEventRsnaRprtTargetBssid          MacAddress,
71         dot11WNMEventRsnaRprtAuthType            OCTET STRING,
72         dot11WNMEventRsnaRprtEapMethod           OCTET STRING,
73         dot11WNMEventRsnaRprtResult              INTEGER,

```

```

1         dot11WNMEventRsnaRprtRsnaElement                OCTET STRING }
2
3 dot11WNMEventRsnaRprtIndex OBJECT-TYPE
4     SYNTAX Unsigned32
5     MAX-ACCESS not-accessible
6     STATUS current
7     DESCRIPTION
8         "Index for RSNA Event Report elements in dot11WNMEventRsnaReportTable,
9         greater than 0."
10    ::= { dot11WNMEventRsnaReportEntry 1 }
11
12 dot11WNMEventRsnaRprtRqstToken OBJECT-TYPE
13     SYNTAX OCTET STRING
14     MAX-ACCESS read-only
15     STATUS current
16     DESCRIPTION
17         "This attribute indicates the request token that was indicated in the WNM
18         request that generated this measurement report. This should be an exact
19         match to the original dot11WNMRqstToken attribute. Note that there may be
20         multiple entries in the table that match this value since a single request
21         may generate multiple WNM reports."
22    ::= { dot11WNMEventRsnaReportEntry 2 }
23
24 dot11WNMEventRsnaRprtIfIndex OBJECT-TYPE
25     SYNTAX InterfaceIndex
26     MAX-ACCESS read-only
27     STATUS current
28     DESCRIPTION
29         "The ifIndex for this row of WNMEventRsna Report has been received on."
30    ::= { dot11WNMEventRsnaReportEntry 3 }
31
32 dot11WNMEventRsnaRprtTargetBssid OBJECT-TYPE
33     SYNTAX MacAddress
34     MAX-ACCESS read-create
35     STATUS current
36     DESCRIPTION
37         "This attribute indicates the target BSSID for the reported RSNA event."
38    ::= { dot11WNMEventRsnaReportEntry 4 }
39
40 dot11WNMEventRsnaRprtAuthType OBJECT-TYPE
41     SYNTAX OCTET STRING (SIZE(4))
42     MAX-ACCESS read-create
43     STATUS current
44     DESCRIPTION
45         "This attribute indicates one of the AKM suite selectors defined in Table
46         7-34 in 7.3.2.25.2."
47    ::= { dot11WNMEventRsnaReportEntry 5 }
48
49 dot11WNMEventRsnaRprtEapMethod OBJECT-TYPE
50     SYNTAX OCTET STRING (SIZE(0..3))
51     MAX-ACCESS read-create
52     STATUS current
53     DESCRIPTION
54         "This attribute indicates a value that identifies the EAP Method. When the
55         Authentication Type field is set to the value of either 00-0F-AC:1 (Authen-
56         tication negotiated over IEEE 802.1X or using PMKSA caching as defined in
57         8.4.6.2) or 00-0F-AC:3 (AKM suite selector for Fast BSS Transition as
58         defined in 8.4.3), the EAP Method field contains the IANA assigned EAP type
59         defined at http://www.iana.org/assignments/eap-numbers. The EAP type con-
60         tains either the legacy type (1 octet) or the expanded type (1 octet type =
61         254, 3-octet Vendor ID, 4-octet Vendor-Type). The EAP Method field is set
62         to 0 otherwise."
63    ::= { dot11WNMEventRsnaReportEntry 6 }
64
65 dot11WNMEventRsnaRprtResult OBJECT-TYPE
66     SYNTAX INTEGER (0..65535)
67     UNITS "TUs"
68     MAX-ACCESS read-create
69     STATUS current
70     DESCRIPTION
71         "This attribute indicates the result of the RSNA event and is set to one of
72         the Status Codes specified in Table7-23 in 7.3.1.9."

```



```

1      ::= { dot11WNMEventRsnaReportEntry 7 }
2
3  dot11WNMEventRsnaRprtRsnElement OBJECT-TYPE
4      SYNTAX OCTET STRING (SIZE(0..257))
5      MAX-ACCESS read-create
6      STATUS current
7      DESCRIPTION
8          "This attribute contains the entire contents of the negotiated RSN informa-
9          tion element at the time of the authentication attempt. The format of the
10         RSN information element is defined in 7.3.2.25."
11     DEFVAL { 'H' }
12     ::= { dot11WNMEventRsnaReportEntry 8 }
13
14 -- *****
15 -- * End of dot11WNMEventRsnaReport TABLE
16 -- *****
17
18 -- *****
19 -- * dot11WNMEventPeerReport TABLE
20 -- *****
21     dot11WNMEventPeerReportTable OBJECT-TYPE
22     SYNTAX SEQUENCE OF Dot11WNMEventPeerReportEntry
23     MAX-ACCESS not-accessible
24     STATUS current
25     DESCRIPTION
26         "Group contains the current list of Peer-to-Peer Event reports that have
27         been received by the MLME. The report tables shall be maintained as FIFO to
28         preserve freshness, thus the rows in this table can be deleted for memory
29         constraints or other implementation constraints determined by the vendor.
30         New rows shall have different RprtIndex values than those deleted within
31         the range limitation of the index. One easy way is to monotonically
32         increase RprtIndex for new reports being written in the table."
33     ::= { dot11WNMReport 7 }
34
35     dot11WNMEventPeerReportEntry OBJECT-TYPE
36     SYNTAX Dot11WNMEventPeerReportEntry
37     MAX-ACCESS not-accessible
38     STATUS current
39     DESCRIPTION
40         "An entry in the dot11WNMEventPeerReportTable Indexed by
41         dot11WNMEventPeerRprtIndex."
42     INDEX { dot11WNMEventPeerRprtIndex }
43     ::= { dot11WNMEventPeerReportTable 1 }
44
45     Dot11WNMEventPeerReportEntry ::=
46     SEQUENCE {
47         dot11WNMEventPeerRprtIndex                Unsigned32,
48         dot11WNMEventPeerRprtRqstToken           OCTET STRING,
49         dot11WNMEventPeerRprtIfIndex             InterfaceIndex,
50         dot11WNMEventPeerRprtPeerMacAddress      MacAddress,
51         dot11WNMEventPeerRprtRegulatoryClass     INTEGER,
52         dot11WNMEventPeerRprtChanNumber          INTEGER,
53         dot11WNMEventPeerRprtStaTxPower          Integer32,
54         dot11WNMEventPeerRprtConnTime            INTEGER,
55         dot11WNMEventPeerRprtPeerStatus          INTEGER }
56
57     dot11WNMEventPeerRprtIndex OBJECT-TYPE
58     SYNTAX Unsigned32
59     MAX-ACCESS not-accessible
60     STATUS current
61     DESCRIPTION
62         "Index for Peer-to-Peer Event Report elements in
63         dot11WNMEventPeerReportTable, greater than 0."
64     ::= { dot11WNMEventPeerReportEntry 1 }
65
66     dot11WNMEventPeerRprtRqstToken OBJECT-TYPE
67     SYNTAX OCTET STRING
68     MAX-ACCESS read-only
69     STATUS current
70     DESCRIPTION
71         "This attribute indicates the request token that was indicated in the WNM
72         request that generated this measurement report. This should be an exact

```

```

1         match to the original dot11WNMRqstToken attribute. Note that there may be
2         multiple entries in the table that match this value since a single request
3         may generate multiple WNM reports."
4         ::= { dot11WNMEventPeerReportEntry 2 }
5
6 dot11WNMEventPeerRprtIfIndex OBJECT-TYPE
7     SYNTAX InterfaceIndex
8     MAX-ACCESS read-only
9     STATUS current
10    DESCRIPTION
11        "The ifIndex for this row of WNMEventPeer Report has been received on."
12    ::= { dot11WNMEventPeerReportEntry 3 }
13
14 dot11WNMEventPeerRprtPeerMacAddress OBJECT-TYPE
15     SYNTAX MacAddress
16     MAX-ACCESS read-create
17     STATUS current
18     DESCRIPTION
19        "This attribute indicates the MAC address of the peer STA or IBSS BSSID is
20        equal to the indicated MAC address. If this event is for a Peer-to-Peer
21        Link in an infrastructure BSS, this field contains the MAC address of the
22        peer STA. If this event is for a Peer-to-Peer Link in an IBSS, this field
23        contains the BSSID of the IBSS."
24    ::= { dot11WNMEventPeerReportEntry 4 }
25
26 dot11WNMEventPeerRprtRegulatoryClass OBJECT-TYPE
27     SYNTAX INTEGER(1..255)
28     MAX-ACCESS read-create
29     STATUS current
30     DESCRIPTION
31        "This attribute indicates the channel set for this Peer-to-peer Event
32        report. Country, Regulatory Class and Channel Number together specify the
33        channel frequency and spacing for this measurement request. Valid values of
34        Regulatory Class are shown in Annex J."
35     REFERENCE
36        "Annex J"
37    ::= { dot11WNMEventPeerReportEntry 5 }
38
39 dot11WNMEventPeerRprtChanNumber OBJECT-TYPE
40     SYNTAX INTEGER (1..255)
41     MAX-ACCESS read-create
42     STATUS current
43     DESCRIPTION
44        "This attribute indicates the current operating channel for this Peer-to-
45        peer Event report. The Channel Number is only defined within the indicated
46        Regulatory Class for this WNM request."
47    ::= { dot11WNMEventPeerReportEntry 6 }
48
49 dot11WNMEventPeerRprtStaTxPower OBJECT-TYPE
50     SYNTAX Integer32
51     MAX-ACCESS read-write
52     STATUS current
53     DESCRIPTION
54        "This attribute indicates the STA transmit power used for the peer-to-peer
55        link. The STA Tx Power field indicates the target transmit power at the
56        antenna in dBm with a tolerance of +/-5dB of the lowest basic rate of the
57        reporting STA."
58    ::= { dot11WNMEventPeerReportEntry 7 }
59
60 dot11WNMEventPeerRprtConnTime OBJECT-TYPE
61     SYNTAX INTEGER (0..16777215)
62     UNITS "seconds"
63     MAX-ACCESS read-create
64     STATUS current
65     DESCRIPTION
66        "This attribute indicates a value representing the connection time for the
67        reported peer-to-peer event. If the Peer Status is 0, this field indicates
68        the duration of the Direct Link. If the Peer Status is 1, this field indi-
69        cates the time difference from the time the Direct Link was established to
70        the current time. If the Peer Status is 2, this field indicates the dura-
71        tion of the IBSS membership. If the Peer Status is 3, this field indicates
72        the time difference from the time the STA joined the IBSS to the current

```

```

1         time."
2         ::= { dot11WNMEventPeerReportEntry 8 }
3
4 dot11WNMEventPeerRprtPeerStatus OBJECT-TYPE
5     SYNTAX INTEGER {
6         directLinkTerminated(0),
7         directLinkActive(1),
8         ibssMembershipTerminated(2),
9         ibssMembershipActive(3),
10    }
11    MAX-ACCESS read-create
12    STATUS current
13    DESCRIPTION
14        "This attribute indicates the peer link connection status."
15    ::= { dot11WNMEventPeerReportEntry 9 }
16
17 -- *****
18 -- * End of dot11WNMEventPeerReport TABLE
19 -- *****
20
21 -- *****
22 -- * dot11WNMEventSysLogReport TABLE
23 -- *****
24
25 dot11WNMEventSysLogReportTable OBJECT-TYPE
26     SYNTAX SEQUENCE OF Dot11WNMEventSysLogReportEntry
27     MAX-ACCESS not-accessible
28     STATUS current
29     DESCRIPTION
30         "Group contains the current list of Syslog Event reports that have been
31         received by the MLME. The report tables shall be maintained as FIFO to pre-
32         serve freshness, thus the rows in this table can be deleted for memory con-
33         straints or other implementation constraints determined by the vendor. New
34         rows shall have different RprtIndex values than those deleted within the
35         range limitation of the index. One easy way is to monotonically increase
36         RprtIndex for new reports being written in the table."
37     ::= { dot11WNMReport 8 }
38
39 dot11WNMEventSysLogReportEntry OBJECT-TYPE
40     SYNTAX Dot11WNMEventSysLogReportEntry
41     MAX-ACCESS not-accessible
42     STATUS current
43     DESCRIPTION
44         "An entry in the dot11WNMEventSysLogReportTable Indexed by
45         dot11WNMEventSysLogRprtIndex."
46     INDEX { dot11WNMEventSysLogRprtIndex }
47     ::= { dot11WNMEventSysLogReportTable 1 }
48
49 Dot11WNMEventSysLogReportEntry ::=
50     SEQUENCE {
51         dot11WNMEventSysLogRprtIndex                Unsigned32,
52         dot11WNMEventSysLogRprtRqstToken            OCTET STRING,
53         dot11WNMEventSysLogRprtIfIndex              InterfaceIndex,
54         dot11WNMEventSysLogRprtContent              OCTET STRING }
55
56 dot11WNMEventSysLogRprtIndex OBJECT-TYPE
57     SYNTAX Unsigned32
58     MAX-ACCESS not-accessible
59     STATUS current
60     DESCRIPTION
61         "Index for Syslog Event Report elements in dot11WNMEventSysLogReportTable,
62         greater than 0."
63     ::= { dot11WNMEventSysLogReportEntry 1 }
64
65 dot11WNMEventSysLogRprtRqstToken OBJECT-TYPE
66     SYNTAX OCTET STRING
67     MAX-ACCESS read-only
68     STATUS current
69     DESCRIPTION
70         "This attribute indicates the request token that was indicated in the WNM
71         request that generated this measurement report. This should be an exact
72         match to the original dot11WNMRqstToken attribute. Note that there may be
73         multiple entries in the table that match this value since a single request

```

```

1      may generate multiple WNM reports."
2      ::= { dot11WNMEventSysLogReportEntry 2 }
3
4  dot11WNMEventSysLogRprtIfIndex OBJECT-TYPE
5      SYNTAX InterfaceIndex
6      MAX-ACCESS read-only
7      STATUS current
8      DESCRIPTION
9          "The ifIndex for this row of WNMEventSysLog Report has been received on."
10     ::= { dot11WNMEventSysLogReportEntry 3 }
11
12 dot11WNMEventSysLogRprtContent OBJECT-TYPE
13     SYNTAX OCTET STRING (SIZE(0..2284))
14     MAX-ACCESS read-create
15     STATUS current
16     DESCRIPTION
17         "This attribute provides an envelope for the Syslog Event sub-elements
18         required by the WNM request element. Zero length is the null default for
19         this attribute."
20     DEFVAL { 'H' }
21     ::= { dot11WNMEventSysLogReportEntry 4 }
22
23 -- *****
24 -- * End of dot11WNMEventSysLogReport TABLE
25 -- *****
26
27 -- *****
28 -- * dot11WNMDiagMfrInfoReport TABLE
29 -- *****
30
31 dot11WNMDiagMfrInfoReportTable OBJECT-TYPE
32     SYNTAX SEQUENCE OF Dot11WNMDiagMfrInfoReportEntry
33     MAX-ACCESS not-accessible
34     STATUS current
35     DESCRIPTION
36         "Group contains the current list of Manufacturer Information STA reports
37         that have been received by the MLME. The report tables shall be maintained
38         as FIFO to preserve freshness, thus the rows in this table can be deleted
39         for memory constraints or other implementation constraints determined by
40         the vendor. New rows shall have different RprtIndex values than those
41         deleted within the range limitation of the index. One easy way is to mono-
42         tonically increase RprtIndex for new reports being written in the table."
43     ::= { dot11WNMReport 9 }
44
45 dot11WNMDiagMfrInfoReportEntry OBJECT-TYPE
46     SYNTAX Dot11WNMDiagMfrInfoReportEntry
47     MAX-ACCESS not-accessible
48     STATUS current
49     DESCRIPTION
50         "An entry in the dot11WNMDiagMfrInfoReportTable Indexed by
51         dot11WNMDiagMfrInfoRprtIndex."
52     INDEX { dot11WNMDiagMfrInfoRprtIndex }
53     ::= { dot11WNMDiagMfrInfoReportTable 1 }
54
55 Dot11WNMDiagMfrInfoReportEntry ::=
56     SEQUENCE {
57         dot11WNMDiagMfrInfoRprtIndex                Unsigned32,
58         dot11WNMDiagMfrInfoRprtRqstToken            OCTET STRING,
59         dot11WNMDiagMfrInfoRprtIfIndex              InterfaceIndex,
60         dot11WNMDiagMfrInfoRprtMfrOui               OCTET STRING,
61         dot11WNMDiagMfrInfoRprtMfrIdString          OCTET STRING,
62         dot11WNMDiagMfrInfoRprtMfrModelString       OCTET STRING,
63         dot11WNMDiagMfrInfoRprtMfrSerialNumberString OCTET STRING,
64         dot11WNMDiagMfrInfoRprtMfrFirmwareVersion  OCTET STRING,
65         dot11WNMDiagMfrInfoRprtMfrAntennaType       OCTET STRING,
66         dot11WNMDiagMfrInfoRprtMfrAntennaGain      OCTET STRING }
67
68 dot11WNMDiagMfrInfoRprtIndex OBJECT-TYPE
69     SYNTAX Unsigned32
70     MAX-ACCESS not-accessible
71     STATUS current
72     DESCRIPTION
73         "Index for Manufacturer Information STA Report elements in

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```

1      dot11WNMDiagMfrInfoReportTable, greater than 0."
2      ::= { dot11WNMDiagMfrInfoReportEntry 1 }
3
4      dot11WNMDiagMfrInfoRprtRqstToken OBJECT-TYPE
5      SYNTAX OCTET STRING
6      MAX-ACCESS read-only
7      STATUS current
8      DESCRIPTION
9          "This attribute indicates the request token that was indicated in the WNM
10         request that generated this measurement report. This should be an exact
11         match to the original dot11WNMRqstToken attribute. Note that there may be
12         multiple entries in the table that match this value since a single request
13         may generate multiple WNM reports."
14     ::= { dot11WNMDiagMfrInfoReportEntry 2 }
15
16     dot11WNMDiagMfrInfoRprtIfIndex OBJECT-TYPE
17     SYNTAX InterfaceIndex
18     MAX-ACCESS read-only
19     STATUS current
20     DESCRIPTION
21         "The ifIndex for this row of WNMDiagMfrInfo Report has been received on."
22     ::= { dot11WNMDiagMfrInfoReportEntry 3 }
23
24     dot11WNMDiagMfrInfoRprtMfrOui OBJECT-TYPE
25     SYNTAX OCTET STRING (SIZE(0..5))
26     MAX-ACCESS read-create
27     STATUS current
28     DESCRIPTION
29         "This attribute indicates the Manufacturer OUI for the reported Manufac-
30         turer Information STA Diagnostic. The OUI attribute contains an Organiza-
31         tional Unique Identification, the first 24-bits of the network connected
32         device, which indicate the specific vendor for that device."
33     DEFVAL { 'H' }
34     ::= { dot11WNMDiagMfrInfoReportEntry 4 }
35
36     dot11WNMDiagMfrInfoRprtMfrIdString OBJECT-TYPE
37     SYNTAX OCTET STRING (SIZE(0..255))
38     MAX-ACCESS read-create
39     STATUS current
40     DESCRIPTION
41         "This attribute indicates the Manufacturer ID string for the reported Manu-
42         facturer Information STA Diagnostic. The ID attribute contains an ASCII
43         string indicating the manufacturer identifier of the wireless network adap-
44         tor. This string is not null terminated."
45     DEFVAL { 'H' }
46     ::= { dot11WNMDiagMfrInfoReportEntry 5 }
47
48     dot11WNMDiagMfrInfoRprtMfrModelString OBJECT-TYPE
49     SYNTAX OCTET STRING (SIZE(0..255))
50     MAX-ACCESS read-create
51     STATUS current
52     DESCRIPTION
53         "This attribute indicates the Manufacturer model string for the reported
54         Manufacturer Information STA Diagnostic. The model attribute contains an
55         ASCII string indicating the model of the wireless network adaptor. This
56         string is not null terminated."
57     DEFVAL { 'H' }
58     ::= { dot11WNMDiagMfrInfoReportEntry 6 }
59
60     dot11WNMDiagMfrInfoRprtMfrSerialNumberString OBJECT-TYPE
61     SYNTAX OCTET STRING (SIZE(0..255))
62     MAX-ACCESS read-create
63     STATUS current
64     DESCRIPTION
65         "This attribute indicates the Manufacturer serial number string for the
66         reported Manufacturer Information STA Diagnostic. The serial number
67         attribute contains an ASCII string indicating the serial number of the
68         wireless network adaptor. This string is not null terminated."
69     DEFVAL { 'H' }
70     ::= { dot11WNMDiagMfrInfoReportEntry 7 }

```

```

1  dot11WNMDiagMfrInfoRprtMfrFirmwareVersion OBJECT-TYPE
2      SYNTAX OCTET STRING (SIZE(0..255))
3      MAX-ACCESS read-create
4      STATUS current
5      DESCRIPTION
6          "This attribute indicates the Manufacturer firmware version string for the
7          reported Manufacturer Information STA Diagnostic. The firmware version
8          attribute contains an ASCII string identifying the version of firmware cur-
9          rently installed on the wireless network adaptor. This string is not null
10         terminated."
11     DEFVAL { 'H' }
12     ::= { dot11WNMDiagMfrInfoReportEntry 8 }
13
14 dot11WNMDiagMfrInfoRprtMfrAntennaType OBJECT-TYPE
15     SYNTAX OCTET STRING (SIZE(0..255))
16     MAX-ACCESS read-create
17     STATUS current
18     DESCRIPTION
19         "This attribute indicates the Manufacturer antenna type string for the
20         reported Manufacturer Information STA Diagnostic. The antenna type
21         attribute contains an ASCII string indicating the type of antenna con-
22         nected to the wireless network adaptor."
23     DEFVAL { 'H' }
24     ::= { dot11WNMDiagMfrInfoReportEntry 9 }
25
26 dot11WNMDiagMfrInfoRprtMfrAntennaGain OBJECT-TYPE
27     SYNTAX OCTET STRING (SIZE(1))
28     MAX-ACCESS read-create
29     STATUS current
30     DESCRIPTION
31         "This attribute indicates the Manufacturer antenna gain string for the
32         reported Manufacturer Information STA Diagnostic. The antenna gain
33         attribute contains the peak gain in dBi of the antenna connected to the
34         wireless network adaptor."
35     DEFVAL { 'H' }
36     ::= { dot11WNMDiagMfrInfoReportEntry 10 }
37
38 -- *****
39 -- * End of dot11WNMDiagMfrInfoReport TABLE
40 -- *****
41
42 -- *****
43 -- * dot11WNMDiagConfigProfReport TABLE
44 -- *****
45 dot11WNMDiagConfigProfReportTable OBJECT-TYPE
46     SYNTAX SEQUENCE OF Dot11WNMDiagConfigProfReportEntry
47     MAX-ACCESS not-accessible
48     STATUS current
49     DESCRIPTION
50         "Group contains the current list of Configuration Profile reports that have
51         been received by the MLME. The report tables shall be maintained as FIFO to
52         preserve freshness, thus the rows in this table can be deleted for memory
53         constraints or other implementation constraints determined by the vendor.
54         New rows shall have different RprtIndex values than those deleted within
55         the range limitation of the index. One easy way is to monotonically
56         increase RprtIndex for new reports being written in the table."
57     ::= { dot11WNMReport 10 }
58
59 dot11WNMDiagConfigProfReportEntry OBJECT-TYPE
60     SYNTAX Dot11WNMDiagConfigProfReportEntry
61     MAX-ACCESS not-accessible
62     STATUS current
63     DESCRIPTION
64         "An entry in the dot11WNMDiagConfigProfReportTable Indexed by
65         dot11WNMDiagConfigProfRprtIndex."
66     INDEX { dot11WNMDiagConfigProfRprtIndex }
67     ::= { dot11WNMDiagConfigProfReportTable 1 }
68
69 Dot11WNMDiagConfigProfReportEntry ::=
70     SEQUENCE {
71         dot11WNMDiagConfigProfRprtIndex          Unsigned32,
72         dot11WNMDiagConfigProfRprtRqstToken     OCTET STRING,

```

```

1         dot11WNMDiagConfigProfRprtIfIndex          InterfaceIndex,
2         dot11WNMDiagConfigProfRprtContent          OCTET STRING }
3
4 dot11WNMDiagConfigProfRprtIndex OBJECT-TYPE
5     SYNTAX Unsigned32
6     MAX-ACCESS not-accessible
7     STATUS current
8     DESCRIPTION
9         "Index for Configuration Profile Report elements in
10        dot11WNMDiagConfigProfReportTable, greater than 0."
11    ::= { dot11WNMDiagConfigProfReportEntry 1 }
12
13 dot11WNMDiagConfigProfRprtRqstToken OBJECT-TYPE
14     SYNTAX OCTET STRING
15     MAX-ACCESS read-only
16     STATUS current
17     DESCRIPTION
18         "This attribute indicates the request token that was indicated in the WNM
19        request that generated this measurement report. This should be an exact
20        match to the original dot11WNMRqstToken attribute. Note that there may be
21        multiple entries in the table that match this value since a single request
22        may generate multiple WNM reports."
23    ::= { dot11WNMDiagConfigProfReportEntry 2 }
24
25 dot11WNMDiagConfigProfRprtIfIndex OBJECT-TYPE
26     SYNTAX InterfaceIndex
27     MAX-ACCESS read-only
28     STATUS current
29     DESCRIPTION
30         "The ifIndex for this row of WNMDiagConfigProf Report has been received
31        on."
32    ::= { dot11WNMDiagConfigProfReportEntry 3 }
33
34 dot11WNMDiagConfigProfRprtContent OBJECT-TYPE
35     SYNTAX OCTET STRING (SIZE(0..255))
36     MAX-ACCESS read-create
37     STATUS current
38     DESCRIPTION
39         "This attribute provides an envelope for the Configuration Profile sub-ele-
40        ments required by the WNM request element. Zero length is the null default
41        for this attribute."
42     DEFVAL { ''H }
43    ::= { dot11WNMDiagConfigProfReportEntry 4 }
44
45 -- *****
46 -- * End of dot11WNMDiagConfigProfReport TABLE
47 -- *****
48
49 -- *****
50 -- * dot11WNMDiagAssocReport TABLE
51 -- *****
52
53 dot11WNMDiagAssocReportTable OBJECT-TYPE
54     SYNTAX SEQUENCE OF Dot11WNMDiagAssocReportEntry
55     MAX-ACCESS not-accessible
56     STATUS current
57     DESCRIPTION
58         "Group contains the current list of Association Diagnostic reports that
59        have been received by the MLME. The report tables shall be maintained as
60        FIFO to preserve freshness, thus the rows in this table can be deleted for
61        memory constraints or other implementation constraints determined by the
62        vendor. New rows shall have different RprtIndex values than those deleted
63        within the range limitation of the index. One easy way is to monotonically
64        increase RprtIndex for new reports being written in the table."
65    ::= { dot11WNMReport 11 }
66
67 dot11WNMDiagAssocReportEntry OBJECT-TYPE
68     SYNTAX Dot11WNMDiagAssocReportEntry
69     MAX-ACCESS not-accessible
70     STATUS current
71     DESCRIPTION
72         "An entry in the dot11WNMDiagAssocReportTable Indexed by
73        dot11WNMDiagAssocRprtIndex."

```

```

1      INDEX { dot11WNMDiagAssocRprtIndex }
2      ::= { dot11WNMDiagAssocReportTable 1 }
3
4      Dot11WNMDiagAssocReportEntry ::=
5      SEQUENCE {
6          dot11WNMDiagAssocRprtIndex                Unsigned32,
7          dot11WNMDiagAssocRprtRqstToken           OCTET STRING,
8          dot11WNMDiagAssocRprtIfIndex             InterfaceIndex,
9          dot11WNMDiagAssocRprtContent             OCTET STRING }
10
11     dot11WNMDiagAssocRprtIndex OBJECT-TYPE
12     SYNTAX Unsigned32
13     MAX-ACCESS not-accessible
14     STATUS current
15     DESCRIPTION
16     "Index for Association Diagnostic Report elements in
17     dot11WNMDiagAssocReportTable, greater than 0."
18     ::= { dot11WNMDiagAssocReportEntry 1 }
19
20     dot11WNMDiagAssocRprtRqstToken OBJECT-TYPE
21     SYNTAX OCTET STRING
22     MAX-ACCESS read-only
23     STATUS current
24     DESCRIPTION
25     "This attribute indicates the request token that was indicated in the WNM
26     request that generated this measurement report. This should be an exact
27     match to the original dot11WNMRqstToken attribute. Note that there may be
28     multiple entries in the table that match this value since a single request
29     may generate multiple WNM reports."
30     ::= { dot11WNMDiagAssocReportEntry 2 }
31
32     dot11WNMDiagAssocRprtIfIndex OBJECT-TYPE
33     SYNTAX InterfaceIndex
34     MAX-ACCESS read-only
35     STATUS current
36     DESCRIPTION
37     "The ifIndex for this row of WNMDiagAssoc Report has been received on."
38     ::= { dot11WNMDiagAssocReportEntry 3 }
39
40     dot11WNMDiagAssocRprtContent OBJECT-TYPE
41     SYNTAX OCTET STRING (SIZE(0..255))
42     MAX-ACCESS read-create
43     STATUS current
44     DESCRIPTION
45     "This attribute provides an envelope for the Association Diagnostic sub-
46     elements required by the WNM request element. Zero length is the null
47     default for this attribute."
48     DEFVAL { 'H' }
49     ::= { dot11WNMDiagAssocReportEntry 4 }
50
51     -- *****
52     -- * End of dot11WNMDiagAssocReport TABLE
53     -- *****
54
55     -- *****
56     -- * dot11WNMDiag8021xAuthReport TABLE
57     -- *****
58
59     dot11WNMDiag8021xAuthReportTable OBJECT-TYPE
60     SYNTAX SEQUENCE OF Dot11WNMDiag8021xAuthReportEntry
61     MAX-ACCESS not-accessible
62     STATUS current
63     DESCRIPTION
64     "Group contains the current list of 802.1X Authentication Diagnostic
65     reports that have been received by the MLME. The report tables shall be
66     maintained as FIFO to preserve freshness, thus the rows in this table can
67     be deleted for memory constraints or other implementation constraints
68     determined by the vendor. New rows shall have different RprtIndex values
69     than those deleted within the range limitation of the index. One easy way
70     is to monotonically increase RprtIndex for new reports being written in the
71     table."
72     ::= { dot11WNMRReport 12 }

```



```

1  dot11WNMDiag8021xAuthReportEntry OBJECT-TYPE
2      SYNTAX Dot11WNMDiag8021xAuthReportEntry
3      MAX-ACCESS not-accessible
4      STATUS current
5      DESCRIPTION
6          "An entry in the dot11WNMDiag8021xAuthReportTable Indexed by
7          dot11WNMDiag8021xAuthRprtIndex."
8      INDEX { dot11WNMDiag8021xAuthRprtIndex }
9      ::= { dot11WNMDiag8021xAuthReportTable 1 }
10
11 Dot11WNMDiag8021xAuthReportEntry ::=
12     SEQUENCE {
13         dot11WNMDiag8021xAuthRprtIndex                Unsigned32,
14         dot11WNMDiag8021xAuthRprtRqstToken            OCTET STRING,
15         dot11WNMDiag8021xAuthRprtIfIndex              InterfaceIndex,
16         dot11WNMDiag8021xAuthRprtContent              OCTET STRING }
17
18 dot11WNMDiag8021xAuthRprtIndex OBJECT-TYPE
19     SYNTAX Unsigned32
20     MAX-ACCESS not-accessible
21     STATUS current
22     DESCRIPTION
23         "Index for 802.1X Authentication Diagnostic Report elements in
24         dot11WNMDiag8021xAuthReportTable, greater than 0."
25     ::= { dot11WNMDiag8021xAuthReportEntry 1 }
26
27 dot11WNMDiag8021xAuthRprtRqstToken OBJECT-TYPE
28     SYNTAX OCTET STRING
29     MAX-ACCESS read-only
30     STATUS current
31     DESCRIPTION
32         "This attribute indicates the request token that was indicated in the WNM
33         request that generated this measurement report. This should be an exact
34         match to the original dot11WNMRqstToken attribute. Note that there may be
35         multiple entries in the table that match this value since a single request
36         may generate multiple WNM reports."
37     ::= { dot11WNMDiag8021xAuthReportEntry 2 }
38
39 dot11WNMDiag8021xAuthRprtIfIndex OBJECT-TYPE
40     SYNTAX InterfaceIndex
41     MAX-ACCESS read-only
42     STATUS current
43     DESCRIPTION
44         "The ifIndex for this row of WNMDiag8021xAuth Report has been received on."
45     ::= { dot11WNMDiag8021xAuthReportEntry 3 }
46
47 dot11WNMDiag8021xAuthRprtContent OBJECT-TYPE
48     SYNTAX OCTET STRING (SIZE(0..255))
49     MAX-ACCESS read-create
50     STATUS current
51     DESCRIPTION
52         "This attribute provides an envelope for the 802.1X Authentication Diagnos-
53         tic sub-elements required by the WNM request element. Zero length is the
54         null default for this attribute."
55     DEFVAL { 'H' }
56     ::= { dot11WNMDiag8021xAuthReportEntry 4 }
57
58 -- *****
59 -- * End of dot11WNMDiag8021xAuthReport TABLE
60 -- *****
61
62 -- *****
63 -- * dot11WNMLCIReport TABLE
64 -- *****
65
66 dot11WNMLCIReportTable OBJECT-TYPE
67     SYNTAX SEQUENCE OF Dot11WNMLCIReportEntry
68     MAX-ACCESS not-accessible
69     STATUS current
70     DESCRIPTION
71         "Group contains the current list of Location Configuration reports that
72         have been received by the MLME. The report tables shall be maintained as
73         FIFO to preserve freshness, thus the rows in this table can be deleted for

```

```

1         memory constraints or other implementation constraints determined by the
2         vendor. New rows shall have different RprtIndex values than those deleted
3         within the range limitation of the index. One easy way is to monotonically
4         increase RprtIndex for new reports being written in the table."
5         ::= { dot11WNMLCIRprtIndex 13 }
6
7 dot11WNMLCIRprtIndex OBJECT-TYPE
8     SYNTAX Dot11WNMLCIRprtIndex
9     MAX-ACCESS not-accessible
10    STATUS current
11    DESCRIPTION
12        "An entry in the dot11WNMLCIRprtIndex Indexed by dot11WNMLCIRprtIndex."
13    INDEX { dot11WNMLCIRprtIndex }
14    ::= { dot11WNMLCIRprtIndex 1 }
15
16 Dot11WNMLCIRprtIndex ::=
17     SEQUENCE {
18         dot11WNMLCIRprtIndex                Unsigned32,
19         dot11WNMLCIRprtRqstToken            OCTET STRING,
20         dot11WNMLCIRprtIfIndex              InterfaceIndex,
21         dot11WNMLCIRprtContent              OCTET STRING }
22
23 dot11WNMLCIRprtIndex OBJECT-TYPE
24     SYNTAX Unsigned32
25     MAX-ACCESS not-accessible
26     STATUS current
27     DESCRIPTION
28         "Index for Location Configuration Report elements in
29         dot11WNMLCIRprtIndex, greater than 0."
30     ::= { dot11WNMLCIRprtIndex 1 }
31
32 dot11WNMLCIRprtRqstToken OBJECT-TYPE
33     SYNTAX OCTET STRING
34     MAX-ACCESS read-only
35     STATUS current
36     DESCRIPTION
37         "This attribute indicates the request token that was indicated in the WNM
38         request that generated this measurement report. This should be an exact
39         match to the original dot11WNMLCIRprtRqstToken attribute. Note that there may be
40         multiple entries in the table that match this value since a single request
41         may generate multiple WNM reports."
42     ::= { dot11WNMLCIRprtIndex 2 }
43
44 dot11WNMLCIRprtIfIndex OBJECT-TYPE
45     SYNTAX InterfaceIndex
46     MAX-ACCESS read-only
47     STATUS current
48     DESCRIPTION
49         "The ifIndex for this row of WNMMLCI Report has been received on."
50     ::= { dot11WNMLCIRprtIndex 3 }
51
52 dot11WNMLCIRprtContent OBJECT-TYPE
53     SYNTAX OCTET STRING (SIZE(0..255))
54     MAX-ACCESS read-create
55     STATUS current
56     DESCRIPTION
57         "This attribute provides an envelope for the Location Configuration sub-
58         elements required by the WNM request element. Zero length is the null
59         default for this attribute."
60     DEFVAL { 'H' }
61     ::= { dot11WNMLCIRprtIndex 4 }
62
63 -- *****
64 -- * End of dot11WNMLCIRprt TABLE
65 -- *****
66
67 -- *****
68 -- * dot11WNMLCIRprt TABLE
69 -- *****
70
71 dot11WNMLCIRprtTable OBJECT-TYPE
72     SYNTAX SEQUENCE OF Dot11WNMLCIRprtEntry
73     MAX-ACCESS not-accessible

```

```

1      STATUS current
2      DESCRIPTION
3          "Group contains the current list of BSS Transition Management reports that
4          have been received by the MLME. The report tables shall be maintained as
5          FIFO to preserve freshness, thus the rows in this table can be deleted for
6          memory constraints or other implementation constraints determined by the
7          vendor. New rows shall have different RpvtIndex values than those deleted
8          within the range limitation of the index. One easy way is to monotonically
9          increase RpvtIndex for new reports being written in the table."
10     ::= { dot11WNMReport 14 }
11
12     dot11WNMBssTransitReportEntry OBJECT-TYPE
13     SYNTAX Dot11WNMBssTransitReportEntry
14     MAX-ACCESS not-accessible
15     STATUS current
16     DESCRIPTION
17         "An entry in the dot11WNMBssTransitReportTable Indexed by
18         dot11WNMBssTransitRpvtIndex."
19     INDEX { dot11WNMBssTransitRpvtIndex }
20     ::= { dot11WNMBssTransitReportTable 1 }
21
22     Dot11WNMBssTransitReportEntry ::=
23     SEQUENCE {
24         dot11WNMBssTransitRpvtIndex                Unsigned32,
25         dot11WNMBssTransitRpvtRqstToken            OCTET STRING,
26         dot11WNMBssTransitRpvtIfIndex              InterfaceIndex,
27         dot11WNMBssTransitRpvtContent              OCTET STRING }
28
29     dot11WNMBssTransitRpvtIndex OBJECT-TYPE
30     SYNTAX Unsigned32
31     MAX-ACCESS not-accessible
32     STATUS current
33     DESCRIPTION
34         "Index for BSS Transition Management Report elements in
35         dot11WNMBssTransitReportTable, greater than 0."
36     ::= { dot11WNMBssTransitReportEntry 1 }
37
38     dot11WNMBssTransitRpvtRqstToken OBJECT-TYPE
39     SYNTAX OCTET STRING
40     MAX-ACCESS read-only
41     STATUS current
42     DESCRIPTION
43         "This attribute indicates the request token that was indicated in the WNM
44         request that generated this measurement report. This should be an exact
45         match to the original dot11WNMRqstToken attribute. Note that there may be
46         multiple entries in the table that match this value since a single request
47         may generate multiple WNM reports."
48     ::= { dot11WNMBssTransitReportEntry 2 }
49
50     dot11WNMBssTransitRpvtIfIndex OBJECT-TYPE
51     SYNTAX InterfaceIndex
52     MAX-ACCESS read-only
53     STATUS current
54     DESCRIPTION
55         "The ifIndex for this row of WNM BSS Transit Report has been received on."
56     ::= { dot11WNMBssTransitReportEntry 3 }
57
58     dot11WNMBssTransitRpvtContent OBJECT-TYPE
59     SYNTAX OCTET STRING (SIZE(0..255))
60     MAX-ACCESS read-create
61     STATUS current
62     DESCRIPTION
63         "This attribute provides an envelope for the BSS Transition Management sub-
64         elements required by the WNM request element. Zero length is the null
65         default for this attribute."
66     DEFVAL { ''H }
67     ::= { dot11WNMBssTransitReportEntry 4 }
68
69     -- *****
70     -- * End of dot11WNMBssTransitReport TABLE
71     -- *****

```

```

1  -- *****
2  -- * dot11WNMColocInterfReport TABLE
3  -- *****
4      dot11WNMColocInterfReportTable OBJECT-TYPE
5      SYNTAX SEQUENCE OF Dot11WNMColocInterfReportEntry
6      MAX-ACCESS not-accessible
7      STATUS current
8      DESCRIPTION
9          "Group contains the current list of Co-located Interference reports that
10         have been received by the MLME. The report tables shall be maintained as
11         FIFO to preserve freshness, thus the rows in this table can be deleted for
12         memory constraints or other implementation constraints determined by the
13         vendor. New rows shall have different RprtIndex values than those deleted
14         within the range limitation of the index. One easy way is to monotonically
15         increase RprtIndex for new reports being written in the table."
16     ::= { dot11WNMReport 16 }
17
18 dot11WNMColocInterfReportEntry OBJECT-TYPE
19 SYNTAX Dot11WNMColocInterfReportEntry
20 MAX-ACCESS not-accessible
21 STATUS current
22 DESCRIPTION
23     "An entry in the dot11WNMColocInterfReportTable Indexed by
24     dot11WNMColocInterfRprtIndex."
25 INDEX { dot11WNMColocInterfRprtIndex }
26 ::= { dot11WNMColocInterfReportTable 1 }
27
28 Dot11WNMColocInterfReportEntry ::=
29 SEQUENCE {
30     dot11WNMColocInterfRprtIndex                Unsigned32,
31     dot11WNMColocInterfRprtRqstToken            OCTET STRING,
32     dot11WNMColocInterfRprtIfIndex              InterfaceIndex,
33     dot11WNMColocInterfRprtContent              OCTET STRING }
34
35 dot11WNMColocInterfRprtIndex OBJECT-TYPE
36 SYNTAX Unsigned32
37 MAX-ACCESS not-accessible
38 STATUS current
39 DESCRIPTION
40     "Index for Co-located Interference Report elements in
41     dot11WNMColocInterfReportTable, greater than 0."
42 ::= { dot11WNMColocInterfReportEntry 1 }
43
44 dot11WNMColocInterfRprtRqstToken OBJECT-TYPE
45 SYNTAX OCTET STRING
46 MAX-ACCESS read-only
47 STATUS current
48 DESCRIPTION
49     "This attribute indicates the request token that was indicated in the WNM
50     request that generated this measurement report. This should be an exact
51     match to the original dot11WNMRqstToken attribute. Note that there may be
52     multiple entries in the table that match this value since a single request
53     may generate multiple WNM reports."
54 ::= { dot11WNMColocInterfReportEntry 2 }
55
56 dot11WNMColocInterfRprtIfIndex OBJECT-TYPE
57 SYNTAX InterfaceIndex
58 MAX-ACCESS read-only
59 STATUS current
60 DESCRIPTION
61     "The ifIndex for this row of WNMColocInterf Report has been received on."
62 ::= { dot11WNMColocInterfReportEntry 3 }
63
64 dot11WNMColocInterfRprtContent OBJECT-TYPE
65 SYNTAX OCTET STRING (SIZE(0..255))
66 MAX-ACCESS read-create
67 STATUS current
68 DESCRIPTION
69     "This attribute provides an envelope for the Co-located Interference sub-
70     elements required by the WNM request element. Zero length is the null
71     default for this attribute."
72 DEFVAL { ''H }

```

```
1      ::= { dot11WNMColocInterfReportEntry 4 }
2
3      -- *****
4      -- * End of dot11WNMColocInterfReport TABLE
5      -- *****
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