
IEEE P802.11
Wireless LANs

LB133: Normative Text Changes for Annex Q**Date:** 2008-SEP-11**Author(s):**

Name	Company	Address	Phone	email
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 are management features. TGv features which are related to new services such as FBMS, TFS, etc. and which are not management features are not included in Annex Q.

Annex Q

Insert the following new Rename and modify Annex Q as shown:

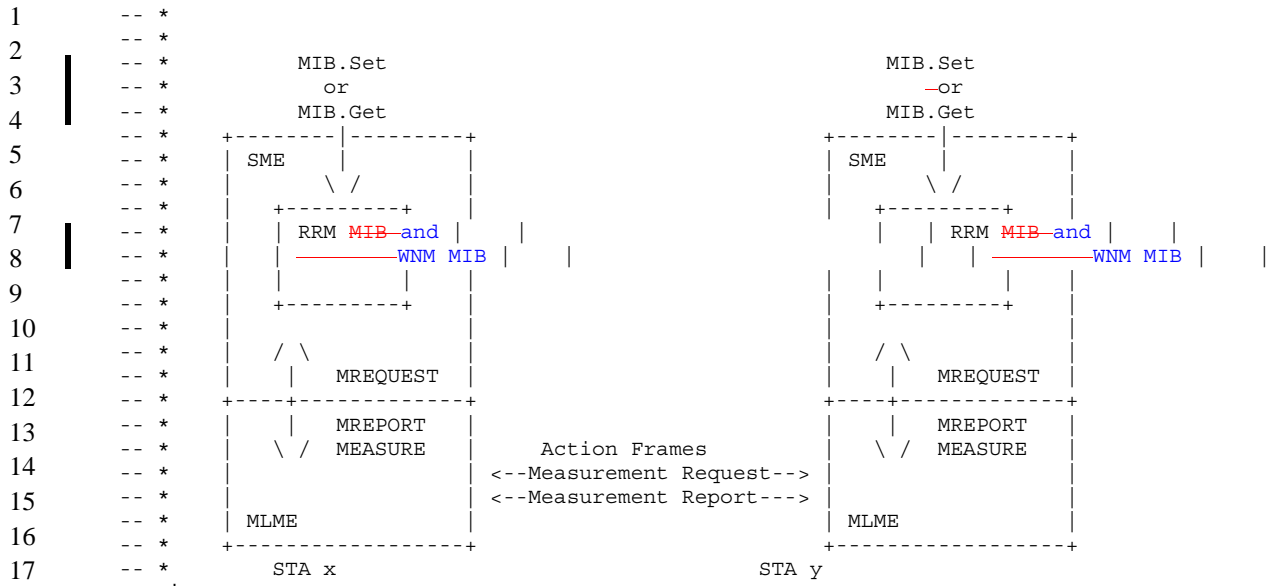
(normative)

ASN.1 encoding of the RRM and WNM MIB

```

10  -- *****
11  -- * IEEE 802.11 RRM and 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 this 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
35  dot11RadioResourceMeasurement OBJECT IDENTIFIER ::= { dot11smt 14 }
36  -- *****
37  -- * dot11RRMRequest and dot11RRMReport Usage
38  -- *
39  -- * The dot11RRMRequest and dot11RRMReport portions of the RRM MIB
40  -- * provide access to the Radio Measurement service. By performing
41  -- * SET operations on the various dot11RRMRequest MIB objects,
42  -- * radio measurements may be initiated directly on the local STA or
43  -- * on any peer station within the same BSS. Subsequently, by
44  -- * performing GET operations on the various dot11RRMReport MIB
45  -- * objects the results of the requested measurements may be
46  -- * retrieved.
47  -- *
48  -- * In the diagram below, a radio measurement could be initiated
49  -- * for STA x by performing a MIB.set operation on the RRM MIB of
50  -- * STA x and specifying the MAC address of STA x in
51  -- * dot11RRMRqstTargetAdd. Additionally, it is possible to have STA x
52  -- * request a measurement from STA y by performing a MIB.set operation
53  -- * on the SME MIB of STA x and specifying the MAC address of STA y in
54  -- * dot11RRMRqstTargetAdd. In both cases the result of the measurements
55  -- * can be retrieved by performing a MIB.get operation on the RRM MIB
56  -- * of STA x upon completion of the measurement.

```



```

18 -- *
19 -- * Each STA maintains a single dot11RRMRequestTable in the SME MIB
20 -- * used to initiate RM Measurement Requests. Each dot11RRMRequestEntry
21 -- * in the table represents an individual Measurement Request that
22 -- * makes up a complete Measurement Request Action frame.
23 -- * Multiple Measurement Requests may be concatenated into a single
24 -- * Measurement Request Action frame by setting the same
25 -- * dot11RRMRqstToken value into multiple dot11RRMRequestEntries.
26 -- *
27 -- * Each row, dot11RRMRequestEntry, of the dot11RRMRequestTable
28 -- * provides read-create access for the initiation of a measurement
29 -- * request. The dot11RRMRequestNextIndex object can be used to
30 -- * determine which is the next row available. Each row corresponding to
31 -- * one measurement in the sequence is created with a dot11RRMRqstRowStatus
32 -- * set to notInService. Once the dot11RRMRequestEntry(s) have been
33 -- * created for a desired measurement sequence the corresponding
34 -- * dot11RRMRqstRowStatus(s) objects are set to active to indicate that
35 -- * the SME can trigger the appropriate MLME primitives. Upon processing
36 -- * the request, the SME returns the corresponding dot11RRMRqstRowStatus(s)
37 -- * object to notInService and are now available for additional
38 -- * measurement requests.
39 -- *
40 -- * After a radio measurement is complete the RRM populates the RRMReport
41 -- * objects with the results of the measurement. Each STA maintains a set
42 -- * of RRMReport tables, one for each corresponding measurement type. The
43 -- * results of the entire measurement sequence are spread across the tables
44 -- * based on what types of measurements were requested. Each xxxReportEntry
45 -- * within a xxxReportTable contains a xxxRprtRqstToken that corresponds
46 -- * to the original dot11RRMRqstToken in the measurement request. So the
47 -- * results of the measurement can be collected by searching the appropriate
48 -- * xxxReportTables and retrieve any reports with the matching request
49 -- * xxxReportTables and retrieve any reports with the matching requesttoken.
50 -- *
51 -- * Similar structures and mechanisms are used for Wireless Network Management
52 -- * Request and Reports. The WNM MIB definitions follow the RRM MIB definitions
53 -- * token in this Annex.
54 -- *
55 -- *****

```

```

1  -- * NEW WNM SECTIONS HERE!!
2
3  -- *****
4  -- * Wireless Network Management
5  -- *****
6
7  dot11WirelessNetworkManagement OBJECT IDENTIFIER ::= { dot11smt 15 }
8
9  -- *****
10 -- * Wireless Network Management Requests
11 -- *****
12
13 dot11WNMRequest OBJECT IDENTIFIER ::= { dot11WirelessNetworkManagement 1 }
14
15 -- *****
16 -- * dot11WNMRequest TABLE
17 -- *****
18 dot11WNMRequestNextIndex OBJECT-TYPE
19     SYNTAX Unsigned32(0..65535)
20     MAX-ACCESS read-only
21     STATUS current
22     DESCRIPTION
23         "Identifies a hint for the next value of dot11WNMRqstIndex to be used in a
24         row creation attempt for dot11WNMRequestTable. If no new rows can be cre-
25         ated for some reason, such as memory, processing requirements, etc, the SME
26         shall set this attribute to 0. It shall update this attribute to a proper
27         value other than 0 as soon as it is capable of receiving new measurement
28         requests. The nextIndex is not necessarily sequential nor monotonically
29         increasing."
30     ::= { dot11WNMRequest 1 }
31
32 dot11WNMRequestTable OBJECT-TYPE
33     SYNTAX SEQUENCE OF Dot11WNMRequestEntry
34     MAX-ACCESS not-accessible
35     STATUS current
36     DESCRIPTION
37         "This group contains the current list of requests for WNM reports to be
38         issued and have been issued until removed. A network manager adds a WNM
39         request by creating a row with createAndWait row status and then filling in
40         the request parameters/attributes. The request becomes active to be issued
41         when the row status is set to Active. The columnar objects or attributes
42         other than the rowStatus shall not be written if the rowStatus is Active.
43         The request rows can be deleted, if commanded by a network manager via
44         changing the value of dot11WNMRqstRowStatus to Destroy. This may leave
45         orphaned rows if a manager crashes and forgets which rows are being used by
46         it. One recommended way to manage orphaned or finished rows is to delete
47         rows if their dot11WNMRqstRowStatus remains other than Active for longer
48         than a period (recommend at least 5 minutes, RFC 2579). Or another recom-
49         mended way is to delete older rows as needed based on their
50         dot11WNMRqstTimeStamp values. This can be done by the agent as well as the
51         manager. "
52     ::= { dot11WNMRequest 2 }
53
54 dot11WNMRequestEntry OBJECT-TYPE
55     SYNTAX Dot11WNMRequestEntry
56     MAX-ACCESS not-accessible
57     STATUS current
58     DESCRIPTION
59         "An entry in the dot11WNMRequestTable Indexed by dot11WNMRqstIndex."
60     INDEX { dot11WNMRqstIndex }
61     ::= { dot11WNMRequestTable 1 }
62
63 Dot11WNMRequestEntry ::=
64     SEQUENCE {
65         dot11WNMRqstIndex                Unsigned32,
66         dot11WNMRqstRowStatus            RowStatus,
67         dot11WNMRqstToken                 OCTET STRING,
68         dot11WNMRqstIfIndex               InterfaceIndex,
69         dot11WNMRqstType                   INTEGER,
70         dot11WNMRqstTargetAdd             MacAddress,

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1      dot11RRMRqstTimeStamp           TimeTicks,
2      dot11WNRqstRndInterval          Unsigned32,
3      dot11WNRqstDuration              Unsigned32,
4      dot11WNRqstMcstGroup            MacAddress,
5      dot11WNRqstMcstTrigCon          OCTET STRING,
6      dot11WNRqstMcstRprtTimeout      INTEGER,
7      dot11WNRqstMcstTrigTimeout      INTEGER,
8      dot11WNRqstLCRRqstSubject       INTEGER,
9      dot11WNRqstLCRIntervalUnits     INTEGER,
10     dot11WNRqstLCRServiceInterval   INTEGER,
11     dot11WNRqstLIRRqstSubject       INTEGER,
12     dot11WNRqstLIRIntervalUnits     INTEGER,
13     dot11WNRqstLIRServiceInterval   INTEGER,
14     dot11WNRqstEventToken           INTEGER,
15     dot11WNRqstEventType            INTEGER,
16     dot11WNRqstEventResponseLimit   INTEGER,
17     dot11WNRqstEventTargetBssid     MacAddress,
18     dot11WNRqstEventSourceBssid     MacAddress,
19     dot11WNRqstEventTransitTimeThresh INTEGER,
20     dot11WNRqstEventTransitMatchValue OCTET STRING,
21     dot11WNRqstEventFreqTransitCountThresh INTEGER,
22     dot11WNRqstEventFreqTransitInterval INTEGER,
23     dot11WNRqstEventRsnaAuthType    OCTET STRING,
24     dot11WNRqstEapType              INTEGER,
25     dot11WNRqstEapVendorId          OCTET STRING,
26     dot11WNRqstEapVendorType        OCTET STRING,
27     dot11WNRqstEventRsnaMatchValue  OCTET STRING,
28     dot11WNRqstEventPeerMacAddress  MacAddress,
29     dot11WNRqstChanNumber           INTEGER,
30     dot11WNRqstRegulatoryClass      INTEGER,
31     dot11WNRqstChanNumber           INTEGER,
32     dot11WNRqstDiagToken            INTEGER,
33     dot11WNRqstDiagType             INTEGER,
34     dot11WNRqstDiagTimeout          INTEGER,
35     dot11WNRqstDiagBssid            MacAddress,
36     dot11WNRqstDiagProfileId        INTEGER,
37     dot11WNRqstDiag8021xCredentials INTEGER,
38     dot11WNRqstLCILocIndParams      OCTET STRING,
39     dot11WNRqstLCIChanList          OCTET STRING,
40     dot11WNRqstLCIBcastRate         INTEGER,
41     dot11WNRqstBssTransitQueryReason INTEGER,
42     dot11WNRqstBssTransitReqMode    OCTET STRING,
43     dot11WNRqstBssTransitDisocTimer INTEGER,
44     dot11WNRqstBssTransitValidInterval INTEGER,
45     dot11WNRqstBssTransitCandidateList OCTET STRING,
46     dot11WNRqstColocInterfAutoEnable TruthValue
47     dot11WNRqstColocInterfRptTimeout INTEGER,
48     dot11WNRqstVendorSpecific       OCTET STRING }
49
50 dot11WNRqstIndex OBJECT-TYPE
51     SYNTAX Unsigned32
52     MAX-ACCESS not-accessible
53     STATUS current
54     DESCRIPTION
55         "Index for WNM Request elements in dot11WNMRequestTable, greater than 0."
56     ::= { dot11WNMRequestEntry 1 }
57
58 dot11WNRqstRowStatus OBJECT-TYPE
59     SYNTAX RowStatus
60     MAX-ACCESS read-create
61     STATUS current
62     DESCRIPTION
63         "The Row Status column of the current row, used for tracking status of an
64         individual request. When this attribute is set to Active, AND a measurement
65         request can be unambiguously created based on the parameters in the
66         row, then the MLME may proceed to issue the request to its intended targets
67         when appropriate. If not, this attribute may be set to Not-ready immediately
68         to indicate parametric errors. However, it is the network managers
69         responsibility to correct the error. If the request is successfully issued
70         to the target STA, then the rowStatus is set to notInService."
71     REFERENCE
72         "Clause 7.3.2.21"

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1      ::= { dot11WNMRequestEntry 2 }
2
3  dot11WNMRqstToken OBJECT-TYPE
4      SYNTAX OCTET STRING
5      MAX-ACCESS read-create
6      STATUS current
7      DESCRIPTION
8          "This attribute indicates a unique string to identify this request. To
9          guarantee the uniqueness of this token across multiple network managers, it
10         is recommended that this token be prefixed with the IP address of the net-
11         work manager creating this row. This token is not necessarily equivalent to
12         the measurement tokens in WNM request frames."
13     ::= { dot11WNMRequestEntry 3 }
14
15 dot11WNMRqstIfIndex OBJECT-TYPE
16     SYNTAX InterfaceIndex
17     MAX-ACCESS read-create
18     STATUS current
19     DESCRIPTION
20         "The ifIndex for this row of WNM Request to be issued on."
21     ::= { dot11WNMRequestEntry 4 }
22
23 dot11WNMRqstType OBJECT-TYPE
24     SYNTAX INTEGER {
25         mcastDiagnostics(0),
26         locationCivic(1),
27         locationIdentifier(2),
28         event(3),
29         dignostic(4)
30         LocationConfiguration(5)
31         bssTransitionQuery(6)
32         bssTransitionRqst(7)
33         fbms(8)
34         ColocInterference(9)
35     }
36     MAX-ACCESS read-create
37     STATUS current
38     DESCRIPTION
39         "This attribute indicates the request type of this WNM request row."
40     ::= { dot11WNMRequestEntry 5 }
41
42 dot11WNMRqstTargetAdd OBJECT-TYPE
43     SYNTAX MacAddress
44     MAX-ACCESS read-create
45     STATUS current
46     DESCRIPTION
47         "The MAC address of STA for this row of RRM Request is to be issued to. If
48         this attribute matches the MAC address of the dot11RRMRqstIfIndex, then
49         measurement request is for this STA itself to carry out."
50     ::= { dot11RRMRequestEntry 6 }
51
52 dot11RRMRqstTimeStamps OBJECT-TYPE
53     SYNTAX TimeTicks
54     MAX-ACCESS read-only
55     STATUS current
56     DESCRIPTION
57         "This attribute indicates the SysUpTime Value the last time when the
58         dot11RRMRqstRowStatus is set to active or when this row is created the
59         first time. This attribute shall be set by this STA or AP automatically,
60         not by an SNMP manager."
61     ::= { dot11WNMRequestEntry 7 }
62
63 dot11WNMRqstRndInterval OBJECT-TYPE
64     SYNTAX Unsigned32
65     UNITS "TUs"
66     MAX-ACCESS read-create
67     STATUS current
68     DESCRIPTION
69         "This attribute indicates the upper bound of the random delay to be used
70         prior to making the measurement, expressed in units of TUs. See 11.10.2."
71     DEFVAL { 0 }

```

```

1      ::= { dot11WNMRequestEntry 8 }
2
3  dot11WNMRqstDuration OBJECT-TYPE
4      SYNTAX Unsigned32
5      UNITS "TUs"
6      MAX-ACCESS read-create
7      STATUS current
8      DESCRIPTION
9          "This attribute indicates the preferred or mandatory measurement duration
10         for this Measurement Request. This attribute is ignored if dot11WNMRqstType
11         = LCI Request or Measurement Pause."
12      DEFVAL { 0 }
13      ::= { dot11WNMRequestEntry 9 }
14
15 dot11WNMRqstMcstGroup OBJECT-TYPE
16     SYNTAX MacAddress
17     MAX-ACCESS read-create
18     STATUS current
19     DESCRIPTION
20         "Multicast Group address indicates the MAC address of the multicast group
21         for which diagnostics are requested. The BSSID shall be set to the wild-
22         card BSSID when the measurement is to be performed on any multicast group
23         on the operating channel. This attribute is only valid if the
24         dot11WNMRqstType is 10, indicating a multicast diagnostic request, and is
25         ignored otherwise."
26     DEFVAL { 'FFFFFFFFF'H }
27     ::= { dot11WNMRequestEntry 10 }
28
29 dot11WNMMcstTrigCon OBJECT-TYPE
30     SYNTAX OCTET STRING (SIZE(1))
31     MAX-ACCESS read-create
32     STATUS current
33     DESCRIPTION
34         "This attribute indicates the trigger condition for the Multicast Diag-
35         nostic request."
36     ::= { dot11WNMRequestEntry 11 }
37
38 dot11WNMRqstMcstRprtTimeout OBJECT-TYPE
39     SYNTAX INTEGER (1..255)
40     UNITS "100 TUs"
41     MAX-ACCESS read-create
42     STATUS current
43     DESCRIPTION
44         "This attribute indicates a time interval value in units of 100 TU to be
45         used as the threshold value for the Report Timeout trigger condition."
46     ::= { dot11WNMRequestEntry 12 }
47
48 dot11WNMRqstMcstTrigTimeout OBJECT-TYPE
49     SYNTAX INTEGER (1..255)
50     UNITS "100 TUs"
51     MAX-ACCESS read-create
52     STATUS current
53     DESCRIPTION
54         "This attribute indicates the time interval value in units of 100 TU dur-
55         ing which a measuring STA does not generate further Multicast Triggered
56         Reports after a trigger condition has been met."
57     ::= { dot11WNMRequestEntry 13 }
58
59 dot11WNMRqstLCRRqstSubject OBJECT-TYPE
60     SYNTAX INTEGER {
61         local(0),
62         remote(1)
63     }
64     MAX-ACCESS read-create
65     STATUS current
66     DESCRIPTION
67         "The attribute indicates the subject of the LCR request."
68     DEFVAL { 0 }
69     ::= { dot11WNMRequestEntry 14 }
70
71 dot11WNMRqstLCRIntervalUnits OBJECT-TYPE
72     SYNTAX INTEGER {

```

```

1         seconds(0),
2         minutes(1),
3         hours(2),
4         dot11RRMNeighborReportRowStatus }
5     MAX-ACCESS read-create
6     STATUS current
7     DESCRIPTION
8         "This attribute indicates the units used in the LCR Service Interval."
9     ::= { dot11WNMRequestEntry 15 }
10
11 dot11WNMRqstLCRServiceInterval OBJECT-TYPE
12     SYNTAX INTEGER (0..65535)
13     MAX-ACCESS read-only
14     STATUS current
15     DESCRIPTION
16         "This attribute indicates the periodic interval requested for periodic
17         reporting of Location Civic Reports."
18     ::= { dot11WNMRequestEntry 16 }
19
20 dot11WNMRqstLIRRqstSubject OBJECT-TYPE
21     SYNTAX INTEGER {
22         local(0),
23         remote(1)
24     }
25     MAX-ACCESS read-create
26     STATUS current
27     DESCRIPTION
28         "The SMTRRMConfig package is a set attribute indicates the subject of
29         attributes that shall be present if the STA supports the Radio Measurement
30         serviceLIR request."
31     DEFVAL { 0 }
32     ::= { dot11WNMRequestEntry 17 }
33
34 dot11WNMRqstLIRIntervalUnits OBJECT-TYPE
35     SYNTAX INTEGER {
36         seconds(0),
37         minutes(1),
38         hours(2),
39     }
40     MAX-ACCESS read-create
41     STATUS current
42     DESCRIPTION
43         "This attribute indicates the units used in the LIR Service Interval."
44     ::= { dot11WNMRequestEntry 18 }
45
46 dot11WNMRqstLIRServiceInterval OBJECT-TYPE
47     SYNTAX INTEGER (0..65535)
48     MAX-ACCESS read-only
49     STATUS current
50     DESCRIPTION
51         "This attribute indicates the periodic interval requested for periodic
52         reporting of Location Identifier Reports."
53     ::= { dot11WNMRequestEntry 19 }
54
55 dot11WNMRqstEventToken OBJECT-TYPE
56     SYNTAX INTEGER (1..255)
57     MAX-ACCESS read-create
58     STATUS current
59     DESCRIPTION
60         "This attribute indicates a unique string to identify this request."
61     ::= { dot11WNMRequestEntry 20 }
62
63 dot11WNMRqstEventType OBJECT-TYPE
64     SYNTAX INTEGER {
65         transition(0),
66         rsna(1),
67         peerToPeer(2),
68         syslog(3),
69         vendorSpecific(221)
70     }
71     MAX-ACCESS read-create

```



```

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

```

```

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

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```

1      DEFVAL { 'FFFFFFFFFFFF'H }
2      ::= { dot11WNMRequestEntry 34 }
3
4  dot11WNMRqstRegulatoryClass OBJECT-TYPE
5      SYNTAX INTEGER(1..255)
6      MAX-ACCESS read-create
7      STATUS current
8      DESCRIPTION
9          "This attribute indicates the channel set for this WNM request. Country,
10         Regulatory Class and Channel Number together specify the channel frequency
11         and spacing for this measurement request. Valid values of Regulatory Class
12         are shown in Annex J."
13      REFERENCE
14          "Annex J"
15      ::= { dot11WNMRequestEntry 35 }
16
17 dot11WNMRqstChanNumber OBJECT-TYPE
18     SYNTAX INTEGER (1..255)
19     MAX-ACCESS read-create
20     STATUS current
21     DESCRIPTION
22         "This attribute indicates the current operating channel for this WNM
23         request. The Channel Number is only defined within the indicated Regula-
24         tory Class for this WNM request."
25     ::= { dot11WNMRequestEntry 36 }
26
27 dot11WNMRqstDiagToken OBJECT-TYPE
28     SYNTAX INTEGER (1..255)
29     MAX-ACCESS read-create
30     STATUS current
31     DESCRIPTION
32         "This attribute indicates a unique string to identify this request."
33     ::= { dot11WNMRequestEntry 37 }
34
35 dot11WNMRqstDiagType OBJECT-TYPE
36     SYNTAX INTEGER {
37         cancelRequest(0),
38         manufacturerInfoStaRep(1),
39         configurationProfile(2),
40         associationDiag(3),
41         ieee8021xAuthDiag(4),
42         vendorSpecific(221)
43     }
44     MAX-ACCESS read-create
45     STATUS current
46     DESCRIPTION
47         "This attribute indicates the request type of this WNM Diagnostic request."
48     ::= { dot11WNMRequestEntry 38 }
49
50 dot11WNMRqstDiagTimeout OBJECT-TYPE
51     SYNTAX INTEGER (0..65535)
52     UNITS "seconds"
53     MAX-ACCESS read-create
54     STATUS current
55     DESCRIPTION
56         "This attribute indicates a value representing the time interval after a
57         Diagnostic Report is generated during which no additional Diagnostic
58         Reports shall be sent."
59     ::= { dot11WNMRequestEntry 39 }
60
61 dot11WNMRqstDiagBssid OBJECT-TYPE
62     SYNTAX MacAddress
63     MAX-ACCESS read-create
64     STATUS current
65     DESCRIPTION
66         "This attribute indicates a request for a Diagnostic Report from the indi-
67         cated BSSID. The BSSID shall be set to the wildcard BSSID when diagnostics
68         from any BSSID is requested."
69     DEFVAL { 'FFFFFFFFFFFF'H }
70     ::= { dot11WNMRequestEntry 40 }
71
72 dot11WNMRqstDiagProfileId OBJECT-TYPE

```

```

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

```

```

1         apFailedIeee8021XEapAuthentication(9),
2         apFailed4wayHandshake(10),
3         excessiveDataMICFailures(11),
4         exceededFrameTransmissionRetryLimit(12),
5         excessiveBroadcastDisassociations(13),
6         excessiveBroadcastDeauthentications(14),
7         previousTransition Failed(15),
8     }
9     MAX-ACCESS read-create
10    STATUS current
11    DESCRIPTION
12        "This attribute indicates the reason for the BSS Transition Query. The
13        format for this list of reasons is further detailed in 7.3.2.63.2."
14    ::= { dot11WNMRequestEntry 46 }
15
16 dot11WNMRqstBssTransitReqMode OBJECT-TYPE
17     SYNTAX OCTET STRING (SIZE(1))
18     MAX-ACCESS read-create
19     STATUS current
20     DESCRIPTION
21         "This attribute indicates the type of BSS request transition. b0 indi-
22         cates the Preferred Candidate list is included in this frame. b1 indicates
23         sn sbridged format for all BSSIDs not listed in this frame. b2 indicates
24         that the STA will be disassociated for the current A. The format for this
25         field is detailed in 7.4.11.8."
26     ::= { dot11WNMRequestEntry 47 }
27
28 dot11WNMRqstBssTransitDisocTimer OBJECT-TYPE
29     SYNTAX INTEGER (1..255)
30     UNITS "TBTTs"
31     MAX-ACCESS read-create
32     STATUS current
33     DESCRIPTION
34         "This attribute indicates the number of beacon transmission times (TBTTs)
35         until the serving AP sends a Disassociation frame to this STA. If the Dis-
36         association Imminent bit of the Request Mode field is set to 0, this field
37         is ignored."
38     ::= { dot11WNMRequestEntry 48 }
39
40 dot11WNMRqstBssTransitValidityInterval OBJECT-TYPE
41     SYNTAX INTEGER (1..255)
42     UNITS "TBTTs"
43     MAX-ACCESS read-create
44     STATUS current
45     DESCRIPTION
46         "This attribute indicates the number of beacon transmission times (TBTTs)
47         until this recommendation of this BSS transition candidate is no longer
48         valid."
49     ::= { dot11WNMRequestEntry 49 }
50
51 dot11WNMRqstBssTransitCandidateList OBJECT-TYPE
52     SYNTAX OCTET STRING (SIZE(0..2304))
53     MAX-ACCESS read-create
54     STATUS current
55     DESCRIPTION
56         "This attribute lists one or more Neighbor Report elements described in
57         7.3.2.37. If the STA has no Transition Candidate information in response to
58         the BSS Transition Management Query frame, the candidate list size is set
59         to 0. "
60     ::= { dot11WNMRequestEntry 50 }
61
62 dot11WNMRqstColocInterfAutoEnable OBJECT-TYPE
63     SYNTAX TruthValue
64     MAX-ACCESS read-create
65     STATUS current
66     DESCRIPTION
67         "This attribute, when TRUE, indicates that the requesting STA requests the
68         receiving STA to send the Co-located Interference Response frames automati-
69         cally with the Report Period interval, as defined in 7.4.11.13, or when the
70         STA detects a change in the co-located interference."
71     ::= { dot11WNMRequestEntry 51 }

```

```

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

```

```

1      "Index for Vendor Specific Report elements in
2      dot11WNMVendorSpecificReportTable, greater than 0."
3      ::= { dot11WNMVendorSpecificReportEntry 1 }
4
5      dot11WNMVendorSpecificRprtRqstToken OBJECT-TYPE
6      SYNTAX OCTET STRING
7      MAX-ACCESS read-only
8      STATUS current
9      DESCRIPTION
10     "This attribute indicates the request token that was indicated in the WNM
11     request that generated this measurement report. This should be an exact
12     match to the original dot11WNMRqstToken attribute. Note that there may be
13     multiple entries in the table that match this value since a single request
14     may generate multiple WNM reports."
15     ::= { dot11WNMVendorSpecificReportEntry 2 }
16
17     dot11WNMVendorSpecificRprtIfIndex OBJECT-TYPE
18     SYNTAX InterfaceIndex
19     MAX-ACCESS read-only
20     STATUS current
21     DESCRIPTION
22     "The ifIndex for this row of WNMVendorSpecific Report has been received
23     on."
24     ::= { dot11WNMVendorSpecificReportEntry 3 }
25
26     dot11WNMVendorSpecificRprtContent OBJECT-TYPE
27     SYNTAX OCTET STRING (SIZE(0..255))
28     MAX-ACCESS read-create
29     STATUS current
30     DESCRIPTION
31     "This attribute provides an envelope for all the vendor specific sub-ele-
32     ments which may be included in a WNM Vendor Specific request element. Zero
33     length is the null default for this attribute."
34     DEFVAL { 'H' }
35     ::= { dot11WNMVendorSpecificReportEntry 4 }
36
37     -- *****
38     -- * End of dot11WNMVendorSpecificReport TABLE
39     -- *****
40
41     -- *****
42     -- * dot11WNMMulticastDiagnosticReport TABLE
43     -- *****
44     dot11WNMMulticastDiagnosticReportTable OBJECT-TYPE
45     SYNTAX SEQUENCE OF Dot11WNMMulticastDiagnosticReportEntry
46     MAX-ACCESS not-accessible
47     STATUS current
48     DESCRIPTION
49     "Group contains the current list of Multicast Diagnostic reports that have
50     been received by the MLME. The report tables shall be maintained as FIFO to
51     preserve freshness, thus the rows in this table can be deleted for memory
52     constraints or other implementation constraints determined by the vendor.
53     New rows shall have different RprtIndex values than those deleted within
54     the range limitation of the index. One easy way is to monotonically
55     increase RprtIndex for new reports being written in the table."
56     ::= { dot11WNMReport 2 }
57
58     dot11WNMMulticastDiagnosticReportEntry OBJECT-TYPE
59     SYNTAX Dot11WNMMulticastDiagnosticReportEntry
60     MAX-ACCESS not-accessible
61     STATUS current
62     DESCRIPTION
63     "An entry in the dot11WNMMulticastDiagnosticReportTable Indexed by
64     dot11WNMMulticastDiagnosticRprtIndex."
65     INDEX { dot11WNMMulticastDiagnosticRprtIndex }
66     ::= { dot11WNMMulticastDiagnosticReportTable 1 }
67
68     Dot11WNMMulticastDiagnosticReportEntry ::=
69     SEQUENCE {
70         dot11WNMMulticastDiagnosticRprtIndex          Unsigned32,
71         dot11WNMMulticastDiagnosticRprtRqstToken      OCTET STRING,
72         dot11WNMMulticastDiagnosticRprtIfIndex        InterfaceIndex,

```

```

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

```



```

1      MAX-ACCESS read-create
2      STATUS current
3      DESCRIPTION
4          "This attribute indicates the reason why the measuring STA sent the Multi-
5          cast Diagnostics report.  b0 indicates Report Timeout Trigger.  b1 indi-
6          cates the Performance Measurement.  These are defined further in
7          7.3.22.10a."
8      ::= { dot11WNMMulticastDiagnosticReportEntry 7 }
9
10     dot11WNMMulticastDiagnosticRprtRcvdMsduCount OBJECT-TYPE
11         SYNTAX Unsigned32
12         MAX-ACCESS read-create
13         STATUS current
14         DESCRIPTION
15             "This attribute indicates the total number of multicast MSDUs with the
16             indicated Multicast MAC Address that were received during the Measurement
17             Duration.  For a triggered multicast diagnostics measurement this is the
18             total number of frames received with the indicated Multicast MAC Address."
19         DEFVAL { 0 }
20         ::= { dot11WNMMulticastDiagnosticReportEntry 8 }
21
22     dot11WNMMulticastDiagnosticRprtFirstSeqNumber OBJECT-TYPE
23         SYNTAX INTEGER (0..65535)
24         MAX-ACCESS read-only
25         STATUS current
26         DESCRIPTION
27             "This attribute indicates the twelve least significant bits of the First
28             Sequence Number field contain the IEEE 802.11 sequence number of the first
29             frame received with destination address equal to the value in the Multi-
30             cast MAC address field during the measurement period.  The four most signif-
31             icant bits of the First Sequence Number field are set to zero.  This field is
32             used only if the multicast reporting reason is performance measurement;
33             otherwise, it is set to 0."
34         DEFVAL { 0 }
35         ::= { dot11WNMMulticastDiagnosticReportEntry 9 }
36
37     dot11WNMMulticastDiagnosticRprtLastSeqNumber OBJECT-TYPE
38         SYNTAX INTEGER (0..65535)
39         MAX-ACCESS read-only
40         STATUS current
41         DESCRIPTION
42             "This attribute indicates the twelve least significant bits of the Last
43             Sequence Number field is the IEEE 802.11 sequence number of the last frame
44             received with destination address equal to the value in the Multicast MAC
45             address field during the measurement period.  The four most significant bits
46             of the Last Sequence Number field are set to zero.  This field is used only
47             if the multicast reporting reason is performance measurement; otherwise, it
48             is set to 0."
49         DEFVAL { 0 }
50         ::= { dot11Groups 39 dot11WNMMulticastDiagnosticReportEntry 10 }
51
52     dot11WNMMulticastDiagnosticRprtMcstRate OBJECT-TYPE
53         SYNTAX INTEGER (0..65535)
54         UNITS "0.5Mbps"
55         MAX-ACCESS read-create
56         STATUS current
57         DESCRIPTION
58             "This attribute indicates the data rate, in 0.5 Mb/s units, at which the
59             STA requests to receive group addressed frames.  The Multicast Rate field is
60             encoded with the MSB set to 1 to indicate that the data rate is in the
61             basic rate set, and set to 0 to indicate that the data rate is not in the
62             basic rate set.  The remaining 15 bit value is multiplied by 0.5 Mb/s to
63             indicate the data rate.  The Multicast Rate field is set to 0 by the STA to
64             indicate that it has not received a group addressed frame with a valid FCS
65             during the measurement period."
66         ::= { dot11WNMMulticastDiagnosticReportEntry 11 }
67
68     -- *****
69     -- * End of dot11WNMMulticastDiagnosticReport TABLE
70     -- *****

```

```

1  -- *****
2  -- * dot11WNMLocationCivicReport TABLE
3  -- *****
4      dot11WNMLocationCivicReportTable OBJECT-TYPE
5      SYNTAX SEQUENCE OF Dot11WNMLocationCivicReportEntry
6      MAX-ACCESS not-accessible
7      STATUS current
8      DESCRIPTION
9          "Group contains the current list of Location Civic reports that have been
10         received by the MLME. The report tables shall be maintained as FIFO to pre-
11         serve freshness, thus the rows in this table can be deleted for memory con-
12         straints or other implementation constraints determined by the vendor. New
13         rows shall have different RprtIndex values than those deleted within the
14         range limitation of the index. One easy way is to monotonically increase
15         RprtIndex for new reports being written in the table."
16     ::= { dot11WNMReport 3 }
17
18 dot11WNMLocationCivicReportEntry OBJECT-TYPE
19 SYNTAX Dot11WNMLocationCivicReportEntry
20 MAX-ACCESS not-accessible
21 STATUS current
22 DESCRIPTION
23     "An entry in the dot11WNMLocationCivicReportTable Indexed by
24     dot11WNMLocationCivicRprtIndex."
25 INDEX { dot11WNMLocationCivicRprtIndex }
26 ::= { dot11WNMLocationCivicReportTable 1 }
27
28 Dot11WNMLocationCivicReportEntry ::=
29 SEQUENCE {
30     dot11WNMLocationCivicRprtIndex                Unsigned32,
31     dot11WNMLocationCivicRprtRqstToken            OCTET STRING,
32     dot11WNMLocationCivicRprtIfIndex              InterfaceIndex,
33     dot11WNMLocationCivicRprtContent              OCTET STRING,
34     dot11WNMLocationCivicRprtLocXAccuracy         INTEGER,
35     dot11WNMLocationCivicRprtLocYAccuracy         INTEGER,
36     dot11WNMLocationCivicRprtLocZAccuracy         INTEGER,
37     dot11WNMLocationCivicRprtCivicLocation        OCTET STRING }
38
39 dot11WNMLocationCivicRprtIndex OBJECT-TYPE
40 SYNTAX Unsigned32
41 MAX-ACCESS not-accessible
42 STATUS current
43 DESCRIPTION
44     "Index for Location Civic Report elements in
45     dot11WNMLocationCivicReportTable, greater than 0."
46 ::= { dot11WNMLocationCivicReportEntry 1 }
47
48 dot11WNMLocationCivicRprtRqstToken OBJECT-TYPE
49 SYNTAX OCTET STRING
50 MAX-ACCESS read-only
51 STATUS current
52 DESCRIPTION
53     "This attribute indicates the request token that was indicated in the WNM
54     request that generated this measurement report. This should be an exact
55     match to the original dot11WNMRqstToken attribute. Note that there may be
56     multiple entries in the table that match this value since a single request
57     may generate multiple WNM reports."
58 ::= { dot11WNMLocationCivicReportEntry 2 }
59
60 dot11WNMLocationCivicRprtIfIndex OBJECT-TYPE
61 SYNTAX InterfaceIndex
62 MAX-ACCESS read-only
63 STATUS current
64 DESCRIPTION
65     "The ifIndex for this row of WNMLocationCivic Report has been received on."
66 ::= { dot11WNMLocationCivicReportEntry 3 }
67
68 dot11WNMLocationCivicRprtLocXAccuracy OBJECT-TYPE
69 SYNTAX INTEGER (0..65535)
70 UNITS "0.1M"
71 MAX-ACCESS read-create
72 STATUS current

```

```

1      DESCRIPTION
2          "This attribute indicates an estimated accuracy in the X-dimension in 0.1
3          meter increments, defined by a little endian 16 bit unsigned integer. For
4          example, an accuracy estimate of +/- 5 meters is represented by the number
5          X'32'. If the location accuracy estimate in the X-dimension is unknown the
6          field is set to 65535."
7          DEFVAL { 65535 }
8      ::= { dot11WNMLocationCivicReportEntry 4 }
9
10     dot11WNMLocationCivicRprtLocYAccuracy OBJECT-TYPE
11     SYNTAX INTEGER (0..65535)
12     UNITS "0.1M"
13     MAX-ACCESS read-create
14     STATUS current
15     DESCRIPTION
16         "This attribute indicates an estimated accuracy in the Y-dimension in 0.1
17         meter increments, defined by a little endian 16 bit unsigned integer. For
18         example, an accuracy estimate of +/- 5 meters is represented by the number
19         X'32'. If the location accuracy estimate in the Y-dimension is unknown the
20         field is set to 65535."
21         DEFVAL { 65535 }
22     ::= { dot11WNMLocationCivicReportEntry 5 }
23
24     dot11WNMLocationCivicRprtLocZAccuracy OBJECT-TYPE
25     SYNTAX INTEGER (0..65535)
26     UNITS "0.1M"
27     MAX-ACCESS read-create
28     STATUS current
29     DESCRIPTION
30         "This attribute indicates an estimated accuracy in the Z-dimension in 0.1
31         meter increments, defined by a little endian 16 bit unsigned integer. For
32         example, an accuracy estimate of +/- 5 meters is represented by the number
33         X'32'. If the location accuracy estimate in the Z-dimension is unknown the
34         field is set to 65535."
35         DEFVAL { 65535 }
36     ::= { dot11WNMLocationCivicReportEntry 6 }
37
38     dot11WNMLocationCivicRprtCivicLocation OBJECT-TYPE
39     SYNTAX OCTET STRING
40     MAX-ACCESS read-create
41     STATUS current
42     DESCRIPTION
43         "This attribute indicates a variable octet field in wich the format of the
44         data is defined in RFC 4776."
45     ::= { dot11WNMLocationCivicReportEntry 7 }
46
47     -- *****
48     -- * End of dot11WNMLocationCivicReport TABLE
49     -- *****
50
51     -- *****
52     -- * dot11WNMLocationIdentifierReport TABLE
53     -- *****
54     dot11WNMLocationIdentifierReportTable OBJECT-TYPE
55     SYNTAX SEQUENCE OF Dot11WNMLocationIdentifierReportEntry
56     MAX-ACCESS not-accessible
57     STATUS current
58     DESCRIPTION
59         "Group contains the current list of Location Identifier reports that have
60         been received by the MLME. The report tables shall be maintained as FIFO to
61         preserve freshness, thus the rows in this table can be deleted for memory
62         constraints or other implementation constraints determined by the vendor.
63         New rows shall have different RprtIndex values than those deleted within
64         the range limitation of the index. One easy way is to monotonically
65         increase RprtIndex for new reports being written in the table."
66     ::= { dot11WNMReport 4 }
67
68     dot11WNMLocationIdentifierReportEntry OBJECT-TYPE
69     SYNTAX Dot11WNMLocationIdentifierReportEntry
70     MAX-ACCESS not-accessible
71     STATUS current
72     DESCRIPTION

```

```

1           "An entry in the dot11WNMLocationIdentifierReportTable Indexed by
2           dot11WNMLocationIdentifierRprtIndex."
3   INDEX { dot11WNMLocationIdentifierRprtIndex }
4   ::= { dot11WNMLocationIdentifierReportTable 1 }
5
6   Dot11WNMLocationIdentifierReportEntry ::=
7   SEQUENCE {
8       dot11WNMLocationIdentifierRprtIndex          Unsigned32,
9       dot11WNMLocationIdentifierRprtRqstToken     OCTET STRING,
10      dot11WNMLocationIdentifierRprtIfIndex       InterfaceIndex,
11      dot11WNMLocationIdentifierRprtPublicIdUri   OCTET STRING }
12
13  dot11WNMLocationIdentifierRprtIndex OBJECT-TYPE
14  SYNTAX Unsigned32
15  MAX-ACCESS not-accessible
16  STATUS current
17  DESCRIPTION
18      "Index for Location Identifier Report elements in
19      dot11WNMLocationIdentifierReportTable, greater than 0."
20  ::= { dot11WNMLocationIdentifierReportEntry 1 }
21
22  dot11WNMLocationIdentifierRprtRqstToken OBJECT-TYPE
23  SYNTAX OCTET STRING
24  MAX-ACCESS read-only
25  STATUS current
26  DESCRIPTION
27      "This attribute indicates the request token that was indicated in the WNM
28      request that generated this measurement report. This should be an exact
29      match to the original dot11WNMRqstToken attribute. Note that there may be
30      multiple entries in the table that match this value since a single request
31      may generate multiple WNM reports."
32  ::= { dot11WNMLocationIdentifierReportEntry 2 }
33
34  dot11WNMLocationIdentifierRprtIfIndex OBJECT-TYPE
35  SYNTAX InterfaceIndex
36  MAX-ACCESS read-only
37  STATUS current
38  DESCRIPTION
39      "The ifIndex for this row of WNMLocationIdentifier Report has been received
40      on."
41  ::= { dot11WNMLocationIdentifierReportEntry 3 }
42
43  dot11WNMLocationIdentifierRprtPublicIdUri 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 URI (aka URL) format,
49      provided to comply with RFC 3693."
50  ::= { dot11WNMLocationIdentifierReportEntry 4 }
51
52  -- *****
53  -- * End of dot11WNMLocationIdentifierReport TABLE
54  -- *****
55
56  -- *****
57  -- * dot11WNMEventTransitReport TABLE
58  -- *****
59
60  dot11WNMEventTransitReportTable OBJECT-TYPE
61  SYNTAX SEQUENCE OF Dot11WNMEventTransitReportEntry
62  MAX-ACCESS not-accessible
63  STATUS current
64  DESCRIPTION
65      "Group contains the current list of Transition Event reports that have been
66      received by the MLME. The report tables shall be maintained as FIFO to pre-
67      serve freshness, thus the rows in this table can be deleted for memory con-
68      straints or other implementation constraints determined by the vendor. New
69      rows shall have different RprtIndex values than those deleted within the
70      range limitation of the index. One easy way is to monotonically increase
71      RprtIndex for new reports being written in the table."
72  ::= { dot11WNMReport 5 }

```

```

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

```

```

1 dot11WNMEventTransitRprtTransitTime OBJECT-TYPE
2     SYNTAX INTEGER (0..65535)
3     UNITS "TUs"
4     MAX-ACCESS read-create
5     STATUS current
6     DESCRIPTION
7         "This attribute indicates the transition time for the reported transition
8         event in TUs. The Transition time is defined as the time difference between
9         the starting time and the ending time of a transition between APs, even if
10        the transition results in remaining on the same AP. Start and end times for
11        a transition event are defined in 11.20.3.2"
12    ::= { dot11WNMEventTransitReportEntry 6 }
13
14 dot11WNMEventTransitRprtTransitReason OBJECT-TYPE
15     SYNTAX INTEGER {
16         unspecified(0),
17         excessiveFrameLossRatesPoorConditions(1),
18         excessiveDelayForCurrentTrafficStreams(2),
19         insufficientQosCapacityForCurrentTrafficStreams(3),
20         firstAssociationToEss(4),
21         loadBalancing(5),
22         betteApFound(6),
23         deauthenticatedDisassociatedFromPreviousAp(7),
24         certificateToken(8),
25         apFailedIeee8021XEapAuthentication(9),
26         apFailed4wayHandshake(10),
27         excessiveDataMICFailures(11),
28         exceededFrameTransmissionRetryLimit(12),
29         excessiveBroadcastDisassociations(13),
30         excessiveBroadcastDeauthentications(14),
31         previousTransition Failed(15),
32     }
33     MAX-ACCESS read-create
34     STATUS current
35     DESCRIPTION
36         "This attribute indicates the reason for the reported BSS Transition event.
37         The format for this list of reasons is further detailed in 7.3.2.63.2."
38     ::= { dot11WNMEventTransitReportEntry 7 }
39
40 dot11WNMEventTransitRprtTransitResult OBJECT-TYPE
41     SYNTAX INTEGER (0..65535)
42     UNITS "TUs"
43     MAX-ACCESS read-create
44     STATUS current
45     DESCRIPTION
46         "This attribute indicates the result of the attempted transition and is set
47         to one of the Status Codes specified in Table7-23 in 7.3.1.9."
48     ::= { dot11WNMEventTransitReportEntry 8 }
49
50 dot11WNMEventTransitRprtSourceRCPI OBJECT-TYPE
51     SYNTAX INTEGER(0..255)
52     MAX-ACCESS read-only
53     STATUS current
54     DESCRIPTION
55         "This attribute indicates the received channel power of the most recently
56         measured frame from the Source BSSID before the STA reassociates to the
57         Target BSSID. The Source RCPI is reported in dBm, as defined in the RCPI
58         measurement clause for the PHY Type."
59     ::= { dot11WNMEventTransitReportEntry 9 }
60
61 dot11WNMEventTransitRprtSourceRSNI OBJECT-TYPE
62     SYNTAX INTEGER(0..255)
63     UNITS "0.5 dB"
64     MAX-ACCESS read-only
65     STATUS current
66     DESCRIPTION
67         "This attribute indicates the received signal to noise indication of the
68         most recently measured frame from the Source BSSID before the STA reassoci-
69         ates to the Target BSSID. The Source RSNI is reported in dB, as defined in
70         7.3.2.41."
71     ::= { dot11WNMEventTransitReportEntry 10 }

```

```

1 dot11WNMEventTransitRprtTargetRCPI OBJECT-TYPE
2     SYNTAX INTEGER(0..255)
3     MAX-ACCESS read-only
4     STATUS current
5     DESCRIPTION
6         "This attribute indicates the received channel power of the first measured
7         frame just after STA reassociates to the Target BSSID. If association with
8         target BSSID failed, the Target RCPI field indicates the received channel
9         power of the most recently measured frame from the Target BSSID. The Tar-
10        get RCPI is reported in dBm, as defined in the RCPI measurement clause for
11        the PHY Type."
12    ::= { dot11WNMEventTransitReportEntry 11 }
13
14 dot11WNMEventTransitRprtTargetRSNI OBJECT-TYPE
15     SYNTAX INTEGER(0..255)
16     UNITS "0.5 dB"
17     MAX-ACCESS read-only
18     STATUS current
19     DESCRIPTION
20         "This attribute indicates the received signal to noise indication of the
21         first measured frame just after STA reassociates to the Target BSSID. If
22         association with target BSSID failed, the Target RCPI field indicates the
23         received signal to noise indication of the most recently measured frame
24         from the Target BSSID. The Target RSNI is reported in dB, as defined in
25         7.3.2.41."
26    ::= { dot11WNMEventTransitReportEntry 12 }
27
28 -- *****
29 -- * End of dot11WNMEventTransitReport TABLE
30 -- *****
31
32 -- *****
33 -- * dot11WNMEventRsnaReport TABLE
34 -- *****
35 dot11WNMEventRsnaReportTable OBJECT-TYPE
36     SYNTAX SEQUENCE OF Dot11WNMEventRsnaReportEntry
37     MAX-ACCESS not-accessible
38     STATUS current
39     DESCRIPTION
40         "Group contains the current list of RSNA Event reports that have been
41         received by the MLME. The report tables shall be maintained as FIFO to pre-
42         serve freshness, thus the rows in this table can be deleted for memory con-
43         straints or other implementation constraints determined by the vendor. New
44         rows shall have different RprtIndex values than those deleted within the
45         range limitation of the index. One easy way is to monotonically increase
46         RprtIndex for new reports being written in the table."
47    ::= { dot11WNMReport 6 }
48
49 dot11WNMEventRsnaReportEntry OBJECT-TYPE
50     SYNTAX Dot11WNMEventRsnaReportEntry
51     MAX-ACCESS not-accessible
52     STATUS current
53     DESCRIPTION
54         "An entry in the dot11WNMEventRsnaReportTable Indexed by
55         dot11WNMEventRsnaRprtIndex."
56     INDEX { dot11WNMEventRsnaRprtIndex }
57    ::= { dot11WNMEventRsnaReportTable 1 }
58
59 Dot11WNMEventRsnaReportEntry ::=
60     SEQUENCE {
61         dot11WNMEventRsnaRprtIndex                Unsigned32,
62         dot11WNMEventRsnaRprtRqstToken            OCTET STRING,
63         dot11WNMEventRsnaRprtIfIndex              InterfaceIndex,
64         dot11WNMEventRsnaRprtTargetBssid          MacAddress,
65         dot11WNMEventRsnaRprtAuthType             OCTET STRING,
66         dot11WNMEventRsnaRprtEapMethod            OCTET STRING,
67         dot11WNMEventRsnaRprtResult               INTEGER,
68         dot11WNMEventRsnaRprtRsnElement           OCTET STRING }
69
70 dot11WNMEventRsnaRprtIndex OBJECT-TYPE
71     SYNTAX Unsigned32
72     MAX-ACCESS not-accessible

```

```

1      STATUS current
2      DESCRIPTION
3          "Index for RSNA Event Report elements in dot11WNMEEventRsnaReportTable,
4          greater than 0."
5      ::= { dot11WNMEEventRsnaReportEntry 1 }
6
7      dot11WNMEEventRsnaRprtRqstToken OBJECT-TYPE
8          SYNTAX OCTET STRING
9          MAX-ACCESS read-only
10         STATUS current
11         DESCRIPTION
12             "This attribute indicates the request token that was indicated in the WNM
13             request that generated this measurement report. This should be an exact
14             match to the original dot11WNMRqstToken attribute. Note that there may be
15             multiple entries in the table that match this value since a single request
16             may generate multiple WNM reports."
17         ::= { dot11WNMEEventRsnaReportEntry 2 }
18
19         dot11WNMEEventRsnaRprtIfIndex OBJECT-TYPE
20             SYNTAX InterfaceIndex
21             MAX-ACCESS read-only
22             STATUS current
23             DESCRIPTION
24                 "The ifIndex for this row of WNMEEventRsna Report has been received on."
25             ::= { dot11WNMEEventRsnaReportEntry 3 }
26
27         dot11WNMEEventRsnaRprtTargetBssid OBJECT-TYPE
28             SYNTAX MacAddress
29             MAX-ACCESS read-create
30             STATUS current
31             DESCRIPTION
32                 "This attribute indicates the target BSSID for the reported RSNA event."
33             ::= { dot11WNMEEventRsnaReportEntry 4 }
34
35         dot11WNMEEventRsnaRprtAuthType OBJECT-TYPE
36             SYNTAX OCTET STRING (SIZE(4))
37             MAX-ACCESS read-create
38             STATUS current
39             DESCRIPTION
40                 "This attribute indicates one of the AKM suite selectors defined in Table
41                 7-34 in 7.3.2.25.2."
42             ::= { dot11WNMEEventRsnaReportEntry 5 }
43
44         dot11WNMEEventRsnaRprtEapMethod OBJECT-TYPE
45             SYNTAX OCTET STRING (SIZE(0..3))
46             MAX-ACCESS read-create
47             STATUS current
48             DESCRIPTION
49                 "This attribute indicates a value that identifies the EAP Method. When the
50                 Authentication Type field is set to the value of either 00-0F-AC:1 (Authen-
51                 tication negotiated over IEEE 802.1X or using PMKSA caching as defined in
52                 8.4.6.2) or 00-0F-AC:3 (AKM suite selector for Fast BSS Transition as
53                 defined in 8.4.3), the EAP Method field contains the IANA assigned EAP type
54                 defined at http://www.iana.org/assignments/eap-numbers. The EAP type con-
55                 tains either the legacy type (1 octet) or the expanded type (1 octet type =
56                 254, 3-octet Vendor ID, 4-octet Vendor-Type). The EAP Method field is set
57                 to 0 otherwise."
58             ::= { dot11WNMEEventRsnaReportEntry 6 }
59
60         dot11WNMEEventRsnaRprtResult OBJECT-TYPE
61             SYNTAX INTEGER (0..65535)
62             UNITS "TUs"
63             MAX-ACCESS read-create
64             STATUS current
65             DESCRIPTION
66                 "This attribute indicates the result of the RSNA event and is set to one of
67                 the Status Codes specified in Table7-23 in 7.3.1.9."
68             ::= { dot11WNMEEventRsnaReportEntry 7 }
69
70         dot11WNMEEventRsnaRprtRsnElement OBJECT-TYPE
71             SYNTAX OCTET STRING (SIZE(0..257))
72             MAX-ACCESS read-create

```



```

1      STATUS current
2      DESCRIPTION
3          "This attribute contains the entire contents of the negotiated RSN informa-
4          tion element at the time of the authentication attempt. The format of the
5          RSN information element is defined in 7.3.2.25."
6      DEFVAL { 'H' }
7      ::= { dot11WNMEventRsnReportEntry 8 }
8
9  -- *****
10 -- * End of dot11WNMEventRsnReport TABLE
11 -- *****
12
13 -- *****
14 -- * dot11WNMEventPeerReport TABLE
15 -- *****
16      dot11WNMEventPeerReportTable OBJECT-TYPE
17      SYNTAX SEQUENCE OF Dot11WNMEventPeerReportEntry
18      MAX-ACCESS not-accessible
19      STATUS current
20      DESCRIPTION
21          "Group contains the current list of Peer-to-Peer Event reports that have
22          been received by the MLME. The report tables shall be maintained as FIFO to
23          preserve freshness, thus the rows in this table can be deleted for memory
24          constraints or other implementation constraints determined by the vendor.
25          New rows shall have different RprtIndex values than those deleted within
26          the range limitation of the index. One easy way is to monotonically
27          increase RprtIndex for new reports being written in the table."
28      ::= { dot11WNMReport 7 }
29
30      dot11WNMEventPeerReportEntry OBJECT-TYPE
31      SYNTAX Dot11WNMEventPeerReportEntry
32      MAX-ACCESS not-accessible
33      STATUS current
34      DESCRIPTION
35          "An entry in the dot11WNMEventPeerReportTable Indexed by
36          dot11WNMEventPeerRprtIndex."
37      INDEX { dot11WNMEventPeerRprtIndex }
38      ::= { dot11WNMEventPeerReportTable 1 }
39
40      Dot11WNMEventPeerReportEntry ::=
41      SEQUENCE {
42          dot11WNMEventPeerRprtIndex                Unsigned32,
43          dot11WNMEventPeerRprtRqstToken           OCTET STRING,
44          dot11WNMEventPeerRprtIfIndex             InterfaceIndex,
45          dot11WNMEventPeerRprtPeerMacAddress      MacAddress,
46          dot11WNMEventPeerRprtRegulatoryClass     INTEGER,
47          dot11WNMEventPeerRprtChanNumber         INTEGER,
48          dot11WNMEventPeerRprtStaTxPower         Integer32,
49          dot11WNMEventPeerRprtConnTime           INTEGER,
50          dot11WNMEventPeerRprtPeerStatus         INTEGER }
51
52      dot11WNMEventPeerRprtIndex OBJECT-TYPE
53      SYNTAX Unsigned32
54      MAX-ACCESS not-accessible
55      STATUS current
56      DESCRIPTION
57          "Index for Peer-to-Peer Event Report elements in
58          dot11WNMEventPeerReportTable, greater than 0."
59      ::= { dot11WNMEventPeerReportEntry 1 }
60
61      dot11WNMEventPeerRprtRqstToken OBJECT-TYPE
62      SYNTAX OCTET STRING
63      MAX-ACCESS read-only
64      STATUS current
65      DESCRIPTION
66          "This attribute indicates the request token that was indicated in the WNM
67          request that generated this measurement report. This should be an exact
68          match to the original dot11WNMRqstToken attribute. Note that there may be
69          multiple entries in the table that match this value since a single request
70          may generate multiple WNM reports."
71      ::= { dot11WNMEventPeerReportEntry 2 }

```

```

1  dot11WNMEventPeerRprtIfIndex OBJECT-TYPE
2      SYNTAX InterfaceIndex
3      MAX-ACCESS read-only
4      STATUS current
5      DESCRIPTION
6          "The ifIndex for this row of WNMEventPeer Report has been received on."
7      ::= { dot11WNMEventPeerReportEntry 3 }
8
9  dot11WNMEventPeerRprtPeerMacAddress OBJECT-TYPE
10     SYNTAX MacAddress
11     MAX-ACCESS read-create
12     STATUS current
13     DESCRIPTION
14         "This attribute indicates the MAC address of the peer STA or IBSS BSSID is
15         equal to the indicated MAC address. If this event is for a Peer-to-Peer
16         Link in an infrastructure BSS, this field contains the MAC address of the
17         peer STA. If this event is for a Peer-to-Peer Link in an IBSS, this field
18         contains the BSSID of the IBSS."
19     ::= { dot11WNMEventPeerReportEntry 4 }
20
21 dot11WNMEventPeerRprtRegulatoryClass OBJECT-TYPE
22     SYNTAX INTEGER(1..255)
23     MAX-ACCESS read-create
24     STATUS current
25     DESCRIPTION
26         "This attribute indicates the channel set for this Peer-to-peer Event
27         report. Country, Regulatory Class and Channel Number together specify the
28         channel frequency and spacing for this measurement request. Valid values of
29         Regulatory Class are shown in Annex J."
30     REFERENCE
31         "Annex J"
32     ::= { dot11WNMEventPeerReportEntry 5 }
33
34 dot11WNMEventPeerRprtChanNumber OBJECT-TYPE
35     SYNTAX INTEGER (1..255)
36     MAX-ACCESS read-create
37     STATUS current
38     DESCRIPTION
39         "This attribute indicates the current operating channel for this Peer-to-
40         peer Event report. The Channel Number is only defined within the indicated
41         Regulatory Class for this WNM request."
42     ::= { dot11WNMEventPeerReportEntry 6 }
43
44 dot11WNMEventPeerRprtStaTxPower OBJECT-TYPE
45     SYNTAX Integer32
46     MAX-ACCESS read-write
47     STATUS current
48     DESCRIPTION
49         "This attribute indicates the STA transmit power used for the peer-to-peer
50         link. The STA Tx Power field indicates the target transmit power at the
51         antenna in dBm with a tolerance of +/-5dB of the lowest basic rate of the
52         reporting STA."
53     ::= { dot11WNMEventPeerReportEntry 7 }
54
55 dot11WNMEventPeerRprtConnTime OBJECT-TYPE
56     SYNTAX INTEGER (0..16777215)
57     UNITS "seconds"
58     MAX-ACCESS read-create
59     STATUS current
60     DESCRIPTION
61         "This attribute indicates a value representing the connectioin time for the
62         reported peer-to-peer event. If the Peer Status is 0, this field indicates
63         the duration of the Direct Link. If the Peer Status is 1, this field indi-
64         cates the time difference from the time the Direct Link was established to
65         the current time. If the Peer Status is 2, this field indicates the dura-
66         tion of the IBSS membership. If the Peer Status is 3, this field indicates
67         the time difference from the time the STA joined the IBSS to the current
68         time."
69     ::= { dot11WNMEventPeerReportEntry 8 }
70
71 dot11WNMEventPeerRprtPeerStatus OBJECT-TYPE
72     SYNTAX INTEGER {

```

```

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

```

```

1      MAX-ACCESS read-only
2      STATUS current
3      DESCRIPTION
4          "The ifIndex for this row of WNMEEventSysLog Report has been received on."
5      ::= { dot11WNMEEventSysLogReportEntry 3 }
6
7  dot11WNMEEventSysLogRprtContent OBJECT-TYPE
8      SYNTAX OCTET STRING (SIZE(0..2284))
9      MAX-ACCESS read-create
10     STATUS current
11     DESCRIPTION
12         "This attribute provides an envelope for the Syslog Event sub-elements
13         required by the WNM request element. Zero length is the null default for
14         this attribute."
15     DEFVAL { ''H }
16     ::= { dot11WNMEEventSysLogReportEntry 4 }
17
18 -- *****
19 -- * End of dot11WNMEEventSysLogReport TABLE
20 -- *****
21
22 -- *****
23 -- * dot11WNMDiagMfrInfoReport TABLE
24 -- *****
25
26 dot11WNMDiagMfrInfoReportTable OBJECT-TYPE
27     SYNTAX SEQUENCE OF Dot11WNMDiagMfrInfoReportEntry
28     MAX-ACCESS not-accessible
29     STATUS current
30     DESCRIPTION
31         "Group contains the current list of Manufacturer Information STA reports
32         that have been received by the MLME. The report tables shall be maintained
33         as FIFO to preserve freshness, thus the rows in this table can be deleted
34         for memory constraints or other implementation constraints determined by
35         the vendor. New rows shall have different RprtIndex values than those
36         deleted within the range limitation of the index. One easy way is to mono-
37         tonically increase RprtIndex for new reports being written in the table."
38     ::= { dot11WNMReport 9 }
39
40 dot11WNMDiagMfrInfoReportEntry OBJECT-TYPE
41     SYNTAX Dot11WNMDiagMfrInfoReportEntry
42     MAX-ACCESS not-accessible
43     STATUS current
44     DESCRIPTION
45         "An entry in the dot11WNMDiagMfrInfoReportTable Indexed by
46         dot11WNMDiagMfrInfoRprtIndex."
47     INDEX { dot11WNMDiagMfrInfoRprtIndex }
48     ::= { dot11WNMDiagMfrInfoReportTable 1 }
49
50 Dot11WNMDiagMfrInfoReportEntry ::=
51     SEQUENCE {
52         dot11WNMDiagMfrInfoRprtIndex                Unsigned32,
53         dot11WNMDiagMfrInfoRprtRqstToken           OCTET STRING,
54         dot11WNMDiagMfrInfoRprtIfIndex             InterfaceIndex,
55         dot11WNMDiagMfrInfoRprtMfrOui              OCTET STRING,
56         dot11WNMDiagMfrInfoRprtMfrIdString         OCTET STRING,
57         dot11WNMDiagMfrInfoRprtMfrModelString      OCTET STRING,
58         dot11WNMDiagMfrInfoRprtMfrSerialNumberString OCTET STRING,
59         dot11WNMDiagMfrInfoRprtMfrFirmwareVersion OCTET STRING,
60         dot11WNMDiagMfrInfoRprtMfrAntennaType      OCTET STRING,
61         dot11WNMDiagMfrInfoRprtMfrAntennaGain     OCTET STRING }
62
63 dot11WNMDiagMfrInfoRprtIndex OBJECT-TYPE
64     SYNTAX Unsigned32
65     MAX-ACCESS not-accessible
66     STATUS current
67     DESCRIPTION
68         "Index for Manufacturer Information STA Report elements in
69         dot11WNMDiagMfrInfoReportTable, greater than 0."
70     ::= { dot11WNMDiagMfrInfoReportEntry 1 }
71
72 dot11WNMDiagMfrInfoRprtRqstToken OBJECT-TYPE
73     SYNTAX OCTET STRING

```

```

1      MAX-ACCESS read-only
2      STATUS current
3      DESCRIPTION
4          "This attribute indicates the request token that was indicated in the WNM
5          request that generated this measurement report. This should be an exact
6          match to the original dot11WNMRqstToken attribute. Note that there may be
7          multiple entries in the table that match this value since a single request
8          may generate multiple WNM reports."
9      ::= { dot11WNMDiagMfrInfoReportEntry 2 }
10
11     dot11WNMDiagMfrInfoRprtIfIndex OBJECT-TYPE
12         SYNTAX InterfaceIndex
13         MAX-ACCESS read-only
14         STATUS current
15         DESCRIPTION
16             "The ifIndex for this row of WNMDiagMfrInfo Report has been received on."
17         ::= { dot11WNMDiagMfrInfoReportEntry 3 }
18
19     dot11WNMDiagMfrInfoRprtMfrOui OBJECT-TYPE
20         SYNTAX OCTET STRING (SIZE(0..5))
21         MAX-ACCESS read-create
22         STATUS current
23         DESCRIPTION
24             "This attribute indicates the Manufacturer OUI for the reported Manufac-
25             turer Information STA Diagnostic. The OUI attribute contains an Organiza-
26             tional Unique Identification, the first 24-bits of the network connected
27             device, which indicate the specific vendor for that device."
28         DEFVAL { 'H' }
29         ::= { dot11WNMDiagMfrInfoReportEntry 4 }
30
31     dot11WNMDiagMfrInfoRprtMfrIdString OBJECT-TYPE
32         SYNTAX OCTET STRING (SIZE(0..255))
33         MAX-ACCESS read-create
34         STATUS current
35         DESCRIPTION
36             "This attribute indicates the Manufacturer ID string for the reported Manu-
37             facturer Information STA Diagnostic. The ID attribute contains an ASCII
38             string indicating the manufacturer identifier of the wireless network adap-
39             tor. This string is not null terminated."
40         DEFVAL { 'H' }
41         ::= { dot11WNMDiagMfrInfoReportEntry 5 }
42
43     dot11WNMDiagMfrInfoRprtMfrModelString OBJECT-TYPE
44         SYNTAX OCTET STRING (SIZE(0..255))
45         MAX-ACCESS read-create
46         STATUS current
47         DESCRIPTION
48             "This attribute indicates the Manufacturer model string for the reported
49             Manufacturer Information STA Diagnostic. The model attribute contains an
50             ASCII string indicating the model of the wireless network adaptor. This
51             string is not null terminated."
52         DEFVAL { 'H' }
53         ::= { dot11WNMDiagMfrInfoReportEntry 6 }
54
55     dot11WNMDiagMfrInfoRprtMfrSerialNumberString OBJECT-TYPE
56         SYNTAX OCTET STRING (SIZE(0..255))
57         MAX-ACCESS read-create
58         STATUS current
59         DESCRIPTION
60             "This attribute indicates the Manufacturer serial number string for the
61             reported Manufacturer Information STA Diagnostic. The serial number
62             attribute contains an ASCII string indicating the serial number of the
63             wireless network adaptor. This string is not null terminated."
64         DEFVAL { 'H' }
65         ::= { dot11WNMDiagMfrInfoReportEntry 7 }
66
67     dot11WNMDiagMfrInfoRprtMfrFirmwareVersion OBJECT-TYPE
68         SYNTAX OCTET STRING (SIZE(0..255))
69         MAX-ACCESS read-create
70         STATUS current
71         DESCRIPTION

```

```

1         "This attribute indicates the Manufacturer firmware version string for the
2         reported Manufacturer Information STA Diagnostic. The firmware version
3         attribute contains an ASCII string identifying the version of firmware cur-
4         rently installed on the wireless network adaptor. This string is not null
5         terminated."
6         DEFVAL { 'H' }
7         ::= { dot11WNMDiagMfrInfoReportEntry 8 }
8
9 dot11WNMDiagMfrInfoRprtMfrAntennaType OBJECT-TYPE
10        SYNTAX OCTET STRING (SIZE(0..255))
11        MAX-ACCESS read-create
12        STATUS current
13        DESCRIPTION
14            "This attribute indicates the Manufacturer antenna type string for the
15            reported Manufacturer Information STA Diagnostic. The antenna type
16            attribute contains an ASCII string indicating the type of antenna con-
17            nected to the wireless network adaptor."
18        DEFVAL { 'H' }
19        ::= { dot11WNMDiagMfrInfoReportEntry 9 }
20
21 dot11WNMDiagMfrInfoRprtMfrAntennaGain OBJECT-TYPE
22        SYNTAX OCTET STRING (SIZE(1))
23        MAX-ACCESS read-create
24        STATUS current
25        DESCRIPTION
26            "This attribute indicates the Manufacturer antenna gain string for the
27            reported Manufacturer Information STA Diagnostic. The antenna gain
28            attribute contains the peak gain in dBi of the antenna connected to the
29            wireless network adaptor."
30        DEFVAL { 'H' }
31        ::= { dot11WNMDiagMfrInfoReportEntry 10 }
32
33 -- *****
34 -- * End of dot11WNMDiagMfrInfoReport TABLE
35 -- *****
36
37 -- *****
38 -- * dot11WNMDiagConfigProfReport TABLE
39 -- *****
40        dot11WNMDiagConfigProfReportTable OBJECT-TYPE
41        SYNTAX SEQUENCE OF Dot11WNMDiagConfigProfReportEntry
42        MAX-ACCESS not-accessible
43        STATUS current
44        DESCRIPTION
45            "Group contains the current list of Configuration Profile reports that have
46            been received by the MLME. The report tables shall be maintained as FIFO to
47            preserve freshness, thus the rows in this table can be deleted for memory
48            constraints or other implementation constraints determined by the vendor.
49            New rows shall have different RprtIndex values than those deleted within
50            the range limitation of the index. One easy way is to monotonically
51            increase RprtIndex for new reports being written in the table."
52        ::= { dot11WNMReport 10 }
53
54 dot11WNMDiagConfigProfReportEntry OBJECT-TYPE
55        SYNTAX Dot11WNMDiagConfigProfReportEntry
56        MAX-ACCESS not-accessible
57        STATUS current
58        DESCRIPTION
59            "An entry in the dot11WNMDiagConfigProfReportTable Indexed by
60            dot11WNMDiagConfigProfRprtIndex."
61        INDEX { dot11WNMDiagConfigProfRprtIndex }
62        ::= { dot11WNMDiagConfigProfReportTable 1 }
63
64 Dot11WNMDiagConfigProfReportEntry ::=
65        SEQUENCE {
66            dot11WNMDiagConfigProfRprtIndex                Unsigned32,
67            dot11WNMDiagConfigProfRprtRqstToken           OCTET STRING,
68            dot11WNMDiagConfigProfRprtIfIndex             InterfaceIndex,
69            dot11WNMDiagConfigProfRprtContent             OCTET STRING }
70
71 dot11WNMDiagConfigProfRprtIndex OBJECT-TYPE
72        SYNTAX Unsigned32

```

```

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

```

```

1      dot11WNMDiagAssocRprtIndex          Unsigned32,
2      dot11WNMDiagAssocRprtRqstToken     OCTET STRING,
3      dot11WNMDiagAssocRprtIfIndex       InterfaceIndex,
4      dot11WNMDiagAssocRprtContent        OCTET STRING }
5
6  dot11WNMDiagAssocRprtIndex OBJECT-TYPE
7      SYNTAX Unsigned32
8      MAX-ACCESS not-accessible
9      STATUS current
10     DESCRIPTION
11         "Index for Association Diagnostic Report elements in
12         dot11WNMDiagAssocReportTable, greater than 0."
13     ::= { dot11WNMDiagAssocReportEntry 1 }
14
15 dot11WNMDiagAssocRprtRqstToken OBJECT-TYPE
16     SYNTAX OCTET STRING
17     MAX-ACCESS read-only
18     STATUS current
19     DESCRIPTION
20         "This attribute indicates the request token that was indicated in the WNM
21         request that generated this measurement report. This should be an exact
22         match to the original dot11WNMRqstToken attribute. Note that there may be
23         multiple entries in the table that match this value since a single request
24         may generate multiple WNM reports."
25     ::= { dot11WNMDiagAssocReportEntry 2 }
26
27 dot11WNMDiagAssocRprtIfIndex OBJECT-TYPE
28     SYNTAX InterfaceIndex
29     MAX-ACCESS read-only
30     STATUS current
31     DESCRIPTION
32         "The ifIndex for this row of WNMDiagAssoc Report has been received on."
33     ::= { dot11WNMDiagAssocReportEntry 3 }
34
35 dot11WNMDiagAssocRprtContent OBJECT-TYPE
36     SYNTAX OCTET STRING (SIZE(0..255))
37     MAX-ACCESS read-create
38     STATUS current
39     DESCRIPTION
40         "This attribute provides an envelope for the Association Diagnostic sub-
41         elements required by the WNM request element. Zero length is the null
42         default for this attribute."
43     DEFVAL { ''H }
44     ::= { dot11WNMDiagAssocReportEntry 4 }
45
46 -- *****
47 -- * End of dot11WNMDiagAssocReport TABLE
48 -- *****
49
50 -- *****
51 -- * dot11WNMDiag8021xAuthReport TABLE
52 -- *****
53     dot11WNMDiag8021xAuthReportTable OBJECT-TYPE
54     SYNTAX SEQUENCE OF Dot11WNMDiag8021xAuthReportEntry
55     MAX-ACCESS not-accessible
56     STATUS current
57     DESCRIPTION
58         "Group contains the current list of 802.1X Authentication Diagnostic
59         reports that have been received by the MLME. The report tables shall be
60         maintained as FIFO to preserve freshness, thus the rows in this table can
61         be deleted for memory constraints or other implementation constraints
62         determined by the vendor. New rows shall have different RprtIndex values
63         than those deleted within the range limitation of the index. One easy way
64         is to monotonically increase RprtIndex for new reports being written in the
65         table."
66     ::= { dot11WNMReport 12 }
67
68 dot11WNMDiag8021xAuthReportEntry OBJECT-TYPE
69     SYNTAX Dot11WNMDiag8021xAuthReportEntry
70     MAX-ACCESS not-accessible
71     STATUS current
72     DESCRIPTION

```



```

1           "An entry in the dot11WNMDiag8021xAuthReportTable Indexed by
2           dot11WNMDiag8021xAuthRprtIndex."
3     INDEX { dot11WNMDiag8021xAuthRprtIndex }
4     ::= { dot11WNMDiag8021xAuthReportTable 1 }
5
6     Dot11WNMDiag8021xAuthReportEntry ::=
7     SEQUENCE {
8         dot11WNMDiag8021xAuthRprtIndex                Unsigned32,
9         dot11WNMDiag8021xAuthRprtRqstToken           OCTET STRING,
10        dot11WNMDiag8021xAuthRprtIfIndex             InterfaceIndex,
11        dot11WNMDiag8021xAuthRprtContent             OCTET STRING }
12
13    dot11WNMDiag8021xAuthRprtIndex OBJECT-TYPE
14    SYNTAX Unsigned32
15    MAX-ACCESS not-accessible
16    STATUS current
17    DESCRIPTION
18        "Index for 802.1X Authentication Diagnostic Report elements in
19        dot11WNMDiag8021xAuthReportTable, greater than 0."
20    ::= { dot11WNMDiag8021xAuthReportEntry 1 }
21
22    dot11WNMDiag8021xAuthRprtRqstToken OBJECT-TYPE
23    SYNTAX OCTET STRING
24    MAX-ACCESS read-only
25    STATUS current
26    DESCRIPTION
27        "This attribute indicates the request token that was indicated in the WNM
28        request that generated this measurement report. This should be an exact
29        match to the original dot11WNMRqstToken attribute. Note that there may be
30        multiple entries in the table that match this value since a single request
31        may generate multiple WNM reports."
32    ::= { dot11WNMDiag8021xAuthReportEntry 2 }
33
34    dot11WNMDiag8021xAuthRprtIfIndex OBJECT-TYPE
35    SYNTAX InterfaceIndex
36    MAX-ACCESS read-only
37    STATUS current
38    DESCRIPTION
39        "The ifIndex for this row of WNMdiag8021xAuth Report has been received on."
40    ::= { dot11WNMDiag8021xAuthReportEntry 3 }
41
42    dot11WNMDiag8021xAuthRprtContent OBJECT-TYPE
43    SYNTAX OCTET STRING (SIZE(0..255))
44    MAX-ACCESS read-create
45    STATUS current
46    DESCRIPTION
47        "This attribute provides an envelope for the 802.1X Authentication Diagnos-
48        tic sub-elements required by the WNM request element. Zero length is the
49        null default for this attribute."
50    DEFVAL { ''H }
51    ::= { dot11WNMDiag8021xAuthReportEntry 4 }
52
53    -- *****
54    -- * End of dot11WNMDiag8021xAuthReport TABLE
55    -- *****
56
57    -- *****
58    -- * dot11WNMLCIReport TABLE
59    -- *****
60
61    dot11WNMLCIReportTable OBJECT-TYPE
62    SYNTAX SEQUENCE OF Dot11WNMLCIReportEntry
63    MAX-ACCESS not-accessible
64    STATUS current
65    DESCRIPTION
66        "Group contains the current list of Location Configuration reports that
67        have been received by the MLME. The report tables shall be maintained as
68        FIFO to preserve freshness, thus the rows in this table can be deleted for
69        memory constraints or other implementation constraints determined by the
70        vendor. New rows shall have different RprtIndex values than those deleted
71        within the range limitation of the index. One easy way is to monotonically
72        increase RprtIndex for new reports being written in the table."
73    ::= { dot11WNMReport 13 }

```

```

1  dot11WNMLCIReportEntry OBJECT-TYPE
2      SYNTAX Dot11WNMLCIReportEntry
3      MAX-ACCESS not-accessible
4      STATUS current
5      DESCRIPTION
6          "An entry in the dot11WNMLCIReportTable Indexed by dot11WNMLCIrprtIndex."
7      INDEX { dot11WNMLCIrprtIndex }
8      ::= { dot11WNMLCIReportTable 1 }
9
10 Dot11WNMLCIReportEntry ::=
11     SEQUENCE {
12         dot11WNMLCIrprtIndex                Unsigned32,
13         dot11WNMLCIrprtRqstToken            OCTET STRING,
14         dot11WNMLCIrprtIfIndex              InterfaceIndex,
15         dot11WNMLCIrprtContent              OCTET STRING }
16
17 dot11WNMLCIrprtIndex OBJECT-TYPE
18     SYNTAX Unsigned32
19     MAX-ACCESS not-accessible
20     STATUS current
21     DESCRIPTION
22         "Index for Location Configuration Report elements in
23         dot11WNMLCIReportTable, greater than 0."
24     ::= { dot11WNMLCIReportEntry 1 }
25
26 dot11WNMLCIrprtRqstToken OBJECT-TYPE
27     SYNTAX OCTET STRING
28     MAX-ACCESS read-only
29     STATUS current
30     DESCRIPTION
31         "This attribute indicates the request token that was indicated in the WNM
32         request that generated this measurement report. This should be an exact
33         match to the original dot11WNMRqstToken attribute. Note that there may be
34         multiple entries in the table that match this value since a single request
35         may generate multiple WNM reports."
36     ::= { dot11WNMLCIReportEntry 2 }
37
38 dot11WNMLCIrprtIfIndex OBJECT-TYPE
39     SYNTAX InterfaceIndex
40     MAX-ACCESS read-only
41     STATUS current
42     DESCRIPTION
43         "The ifIndex for this row of WNMLCI Report has been received on."
44     ::= { dot11WNMLCIReportEntry 3 }
45
46 dot11WNMLCIrprtContent OBJECT-TYPE
47     SYNTAX OCTET STRING (SIZE(0..255))
48     MAX-ACCESS read-create
49     STATUS current
50     DESCRIPTION
51         "This attribute provides an envelope for the Location Configuration sub-
52         elements required by the WNM request element. Zero length is the null
53         default for this attribute."
54     DEFVAL { ''H }
55     ::= { dot11WNMLCIReportEntry 4 }
56
57 -- *****
58 -- * End of dot11WNMLCIReport TABLE
59 -- *****
60
61 -- *****
62 -- * dot11WNMBssTransitReport TABLE
63 -- *****
64     dot11WNMBssTransitReportTable OBJECT-TYPE
65     SYNTAX SEQUENCE OF Dot11WNMBssTransitReportEntry
66     MAX-ACCESS not-accessible
67     STATUS current
68     DESCRIPTION
69         "Group contains the current list of BSS Transition Management reports that
70         have been received by the MLME. The report tables shall be maintained as
71         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         ::= { dot11WNMReport 14 }
6
7     dot11WNMBssTransitReportEntry OBJECT-TYPE
8         SYNTAX Dot11WNMBssTransitReportEntry
9         MAX-ACCESS not-accessible
10        STATUS current
11        DESCRIPTION
12            "An entry in the dot11WNMBssTransitReportTable Indexed by
13            dot11WNMBssTransitRprtIndex."
14        INDEX { dot11WNMBssTransitRprtIndex }
15        ::= { dot11WNMBssTransitReportTable 1 }
16
17    Dot11WNMBssTransitReportEntry ::=
18        SEQUENCE {
19            dot11WNMBssTransitRprtIndex                Unsigned32,
20            dot11WNMBssTransitRprtRqstToken           OCTET STRING,
21            dot11WNMBssTransitRprtIfIndex             InterfaceIndex,
22            dot11WNMBssTransitRprtContent             OCTET STRING }
23
24    dot11WNMBssTransitRprtIndex OBJECT-TYPE
25        SYNTAX Unsigned32
26        MAX-ACCESS not-accessible
27        STATUS current
28        DESCRIPTION
29            "Index for BSS Transition Management Report elements in
30            dot11WNMBssTransitReportTable, greater than 0."
31        ::= { dot11WNMBssTransitReportEntry 1 }
32
33    dot11WNMBssTransitRprtRqstToken OBJECT-TYPE
34        SYNTAX OCTET STRING
35        MAX-ACCESS read-only
36        STATUS current
37        DESCRIPTION
38            "This attribute indicates the request token that was indicated in the WNM
39            request that generated this measurement report. This should be an exact
40            match to the original dot11WNMRqstToken attribute. Note that there may be
41            multiple entries in the table that match this value since a single request
42            may generate multiple WNM reports."
43        ::= { dot11WNMBssTransitReportEntry 2 }
44
45    dot11WNMBssTransitRprtIfIndex OBJECT-TYPE
46        SYNTAX InterfaceIndex
47        MAX-ACCESS read-only
48        STATUS current
49        DESCRIPTION
50            "The ifIndex for this row of WNM BSS Transit Report has been received on."
51        ::= { dot11WNMBssTransitReportEntry 3 }
52
53    dot11WNMBssTransitRprtContent OBJECT-TYPE
54        SYNTAX OCTET STRING (SIZE(0..255))
55        MAX-ACCESS read-create
56        STATUS current
57        DESCRIPTION
58            "This attribute provides an envelope for the BSS Transition Management sub-
59            elements required by the WNM request element. Zero length is the null
60            default for this attribute."
61        DEFVAL { 'H' }
62        ::= { dot11WNMBssTransitReportEntry 4 }
63
64    -- *****
65    -- * End of dot11WNMBssTransitReport TABLE
66    -- *****
67
68    -- *****
69    -- * dot11WNMColocInterfReport TABLE
70    -- *****
71    dot11WNMColocInterfReportTable OBJECT-TYPE
72    SYNTAX SEQUENCE OF Dot11WNMColocInterfReportEntry

```

```

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

```