
IEEE P802.11
Wireless LANs

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

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Abstract

This document contains normative text updates for Annex Q to TGv draft. Updates include corrections noted since last meeting, expanded detail in several Report Tables and conformance group definitions for new MIB variables.

This document shows redlines from TGv draft 3.02.

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.

Frame source files for these changes will be supplied to TGv editor.

Annex Q

Rename and modify Annex Q as shown:

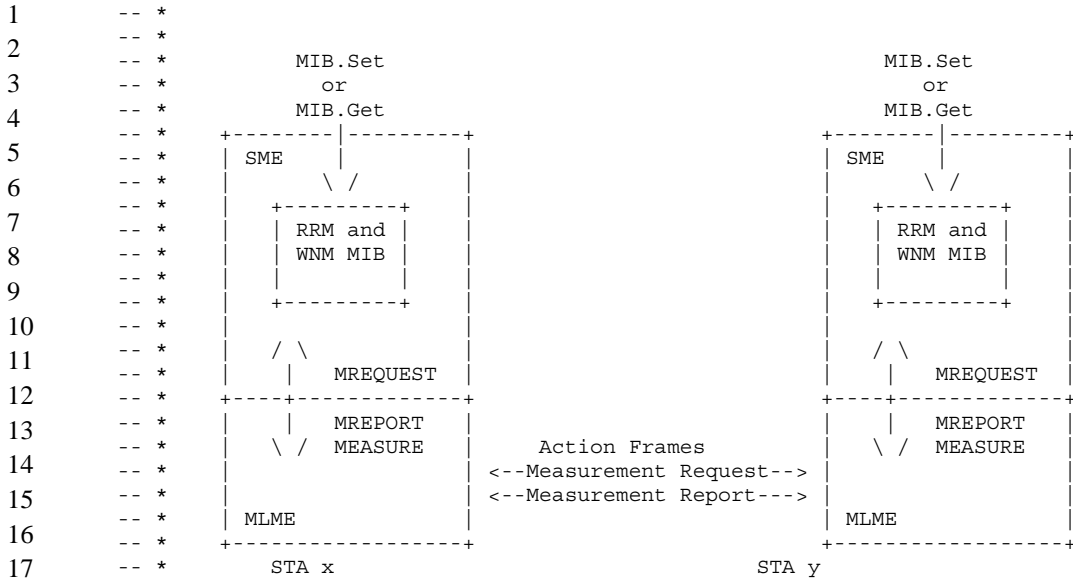
(normative)

ASN.1 encoding of the RRM and WNM MIB

```

11  -- *****
12  -- * IEEE 802.11 RRM and WNM MIB
13  -- *****
14  -- * The primary interface to the Radio Resource Measurements and Wireless
15  -- * Network Management functions is meant to be real-time information
16  -- * obtained through the request/response mechanisms of RRM and WNM.
17  -- * A secondary interface to the measurements is through retention of
18  -- * information in this MIB. The information, meant to be retained for
19  -- * later access, includes the MIB entries of Annex Q. Non-SNMP requests
20  -- * for information are obtained via object IDs (OIDs) through the NDIS
21  -- * or "wireless" interfaces in the operating systems. SNMP requests for
22  -- * information are obtained via SNMP SETs and GETs.
23
24
25  -- *****
26  -- * Radio Resource Measurement
27  -- *****
28
29  dot11RadioResourceMeasurement OBJECT IDENTIFIER ::= { dot11smt 14 }
30  -- *****
31  -- * dot11RRMRequest and dot11RRMReport Usage
32  -- *
33  -- * The dot11RRMRequest and dot11RRMReport portions of the RRM MIB
34  -- * provide access to the Radio Measurement service. By performing
35  -- * SET operations on the various dot11RRMRequest MIB objects,
36  -- * radio measurements may be initiated directly on the local STA or
37  -- * on any peer station within the same BSS. Subsequently, by
38  -- * performing GET operations on the various dot11RRMReport MIB
39  -- * objects the results of the requested measurements may be
40  -- * retrieved.
41  -- *
42  -- * In the diagram below, a radio measurement could be initiated
43  -- * for STA x by performing a MIB.set operation on the RRM MIB of
44  -- * STA x and specifying the MAC address of STA x in
45  -- * dot11RRMRqstTargetAdd. Additionally, it is possible to have STA x
46  -- * request a measurement from STA y by performing a MIB.set operation
47  -- * on the SME MIB of STA x and specifying the MAC address of STA y in
48  -- * dot11RRMRqstTargetAdd. In both cases the result of the measurements
49  -- * can be retrieved by performing a MIB.get operation on the RRM MIB
50  -- * of STA x upon completion of the measurement.

```



Action Frames
<--Measurement Request-->
<--Measurement Report-->

```

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 -- * token.
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 -- * in this Annex.
54 -- *
55 -- * *****
56 -- * *****
57 -- * Radio Resource Measurement Requests
58 -- * *****
59 dot11RRMRequest OBJECT IDENTIFIER ::= { dot11RadioResourceMeasurement 1 }
60 -- * *****
61 -- * dot11RRMRequest TABLE
62 -- * *****

```

```

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

```

```

1      dot11RRMRqstTimeStamp                TimeTicks,
2      dot11WNNMRqstRndInterval            Unsigned32,
3      dot11WNNMRqstDuration                Unsigned32,
4      dot11WNNMRqstMcstGroup              MacAddress,
5      dot11WNNMRqstMcstTrigCon            OCTET STRING,
6      dot11WNNMRqstMcstRprtTimeout        INTEGER,
7      dot11WNNMRqstMcstTrigTimeout        INTEGER,
8      dot11WNNMRqstLCRRqstSubject          INTEGER,
9      dot11WNNMRqstLCRIntervalUnits        INTEGER,
10     dot11WNNMRqstLCRServiceInterval      INTEGER,
11     dot11WNNMRqstLIRRqstSubject          INTEGER,
12     dot11WNNMRqstLIRIntervalUnits        INTEGER,
13     dot11WNNMRqstLIRServiceInterval      INTEGER,
14     dot11WNNMRqstEventToken              INTEGER,
15     dot11WNNMRqstEventType               INTEGER,
16     dot11WNNMRqstEventResponseLimit      INTEGER,
17     dot11WNNMRqstEventTargetBssid        MacAddress,
18     dot11WNNMRqstEventSourceBssid        MacAddress,
19     dot11WNNMRqstEventTransitTimeThresh  INTEGER,
20     dot11WNNMRqstEventTransitMatchValue  OCTET STRING,
21     dot11WNNMRqstEventFreqTransitCountThresh  INTEGER,
22     dot11WNNMRqstEventFreqTransitInterval  INTEGER,
23     dot11WNNMRqstEventRsnaAuthType       OCTET STRING,
24     dot11WNNMRqstEapType                 INTEGER,
25     dot11WNNMRqstEapVendorId             OCTET STRING,
26     dot11WNNMRqstEapVendorType           OCTET STRING,
27     dot11WNNMRqstEventRsnaMatchValue     OCTET STRING,
28     dot11WNNMRqstEventPeerMacAddress      MacAddress,
29     dot11WNNMRqstChanNumber              INTEGER,
30     dot11WNNMRqstRegulatoryClass          INTEGER,
31     dot11WNNMRqstChanNumber              INTEGER,
32     dot11WNNMRqstDiagToken               INTEGER,
33     dot11WNNMRqstDiagType                INTEGER,
34     dot11WNNMRqstDiagTimeout             INTEGER,
35     dot11WNNMRqstDiagBssid               MacAddress,
36     dot11WNNMRqstDiagProfileId           INTEGER,
37     dot11WNNMRqstDiag8021xCredentials    INTEGER,
38     dot11WNNMRqstLCILocIndParams         OCTET STRING,
39     dot11WNNMRqstLCIChanList             OCTET STRING,
40     dot11WNNMRqstLCIBcastRate            INTEGER,
41     dot11WNNMRqstBssTransitQueryReason    INTEGER,
42     dot11WNNMRqstBssTransitReqMode        OCTET STRING,
43     dot11WNNMRqstBssTransitDisocTimer     INTEGER,
44     dot11WNNMRqstBssTransitValidInterval  INTEGER,
45     dot11WNNMRqstBssTransitCandidateList  OCTET STRING,
46     dot11WNNMRqstColocInterfAutoEnable   TruthValue,
47     dot11WNNMRqstColocInterfRprtTimeout  INTEGER,
48     dot11WNNMRqstVendorSpecific          OCTET STRING }
49
50     dot11WNNMRqstIndex OBJECT-TYPE
51         SYNTAX Unsigned32
52         MAX-ACCESS not-accessible
53         STATUS current
54         DESCRIPTION
55             "Index for WNM Request elements in dot11WNNMRequestTable, greater than 0."
56         ::= { dot11WNNMRequestEntry 1 }
57
58     dot11WNNMRqstRowStatus 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 responsibility
69             to correct the error. If the request is successfully issued to the target STA,
70             then the rowStatus is set to notInService."
71         REFERENCE
72             "Clause 7.3.2.21"

```

```

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 { 'FFFFFFFFFH' }
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     }
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 attribute indicates the subject of the LIR request."
29     DEFVAL { 0 }
30     ::= { dot11WNMRequestEntry 17 }
31
32 dot11WNMRqstLIRIntervalUnits OBJECT-TYPE
33     SYNTAX INTEGER {
34         seconds(0),
35         minutes(1),
36         hours(2),
37     }
38     MAX-ACCESS read-create
39     STATUS current
40     DESCRIPTION
41         "This attribute indicates the units used in the LIR Service Interval."
42     ::= { dot11WNMRequestEntry 18 }
43
44 dot11WNMRqstLIRServiceInterval OBJECT-TYPE
45     SYNTAX INTEGER (0..65535)
46     MAX-ACCESS read-only
47     STATUS current
48     DESCRIPTION
49         "This attribute indicates the periodic interval requested for periodic
50         reporting of Location Identifier Reports."
51     ::= { dot11WNMRequestEntry 19 }
52
53 dot11WNMRqstEventToken OBJECT-TYPE
54     SYNTAX INTEGER (1..255)
55     MAX-ACCESS read-create
56     STATUS current
57     DESCRIPTION
58         "This attribute indicates a unique string to identify this request."
59     ::= { dot11WNMRequestEntry 20 }
60
61 dot11WNMRqstEventType OBJECT-TYPE
62     SYNTAX INTEGER {
63         transition(0),
64         rsna(1),
65         peerToPeer(2),
66         syslog(3),
67         vendorSpecific(221)
68     }
69     MAX-ACCESS read-create
70     STATUS current
71     DESCRIPTION

```



```

1         "This attribute indicates the request type of this WNM Event request."
2         ::= { dot11WNMRequestEntry 21 }
3
4 dot11WNMRqstEventResponseLimit OBJECT-TYPE
5     SYNTAX INTEGER {0..255}
6     MAX-ACCESS read-create
7     STATUS current
8     DESCRIPTION
9         "This attribute indicates the maximum number of requested Event Reports to
10        be included in the Event Report Element."
11        ::= { dot11WNMRequestEntry 22 }
12
13 dot11WNMRqstEventTargetBssid OBJECT-TYPE
14     SYNTAX MacAddress
15     MAX-ACCESS read-create
16     STATUS current
17     DESCRIPTION
18         "This attribute is used to request that a Transition or RSNA Event Report
19        includes the event entry when the target BSSID is equal to the indicated
20        BSSID. A transition event is a STA movement or attempted movement from one
21        BSS (the source BSS) in one ESS to another BSS (the target BSS) within the
22        same ESS. The BSSID shall be set to the wildcard BSSID when the transi-
23        tions to any BSSID is requested."
24     DEFVAL { 'FFFFFFFFFFFF'H }
25     ::= { dot11WNMRequestEntry 23 }
26
27 dot11WNMRqstEventSourceBssid OBJECT-TYPE
28     SYNTAX MacAddress
29     MAX-ACCESS read-create
30     STATUS current
31     DESCRIPTION
32         "This attribute is used to request that a Transition Event Report includes
33        the transition event entry when the source BSSID is equal to the indicated
34        BSSID. A transition event is a STA movement or attempted movement from one
35        BSS (the source BSS) in one ESS to another BSS (the target BSS) within the
36        same ESS. The BSSID shall be set to the wildcard BSSID when the transi-
37        tions from any BSSID is requested."
38     DEFVAL { 'FFFFFFFFFFFF'H }
39     ::= { dot11WNMRequestEntry 24 }
40
41 dot11WNMRqstEventTransitTimeThresh OBJECT-TYPE
42     SYNTAX INTEGER (0..65535)
43     UNITS "TUs"
44     MAX-ACCESS read-create
45     STATUS current
46     DESCRIPTION
47         "This attribute indicates a value representing the transition time to be
48        used as the threshold value for the Transition Time condition in TUs. The
49        Transition Time is defined in 11.20.3.2"
50     ::= { dot11WNMRequestEntry 25 }
51
52 dot11WNMRqstEventTransitMatchValue 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        transition is successful. b1 indicates match when transition fails."
60     ::= { dot11WNMRequestEntry 26 }
61
62 dot11WNMRqstEventFreqTransitCountThresh OBJECT-TYPE
63     SYNTAX INTEGER {0..255}
64     MAX-ACCESS read-create
65     STATUS current
66     DESCRIPTION
67         "This attribute indicates the minimum number of matching transitions
68        detected in the measurement duration to generate a Transition Event
69        Report."
70     ::= { dot11WNMRequestEntry 27 }
71
72 dot11WNMRqstEventFreqTransitInterval OBJECT-TYPE

```

```

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

```

```

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

```

```

1      STATUS current
2      DESCRIPTION
3          "This attribute indicates a unique identifier for referencing a configura-
4          tion profile available on a device. The value of the identifier can be any
5          arbitrary value, as long as it is uniquely associated to a single configura-
6          tion profile on the device sending the identifier."
7      ::= { dot11WNMRequestEntry 41 }
8
9      dot11WNMRqstDiag8021xCredentials OBJECT-TYPE
10     SYNTAX INTEGER {
11         none(0),
12         pre-sharedKey(1),
13         configurationProfile(2),
14         usernamePassword(3),
15         otherCertificate(4),
16         oneTimePassword(5),
17         token(6),
18         certificateUsernamePassword(7),
19         certificateToken(8),
20     }
21     MAX-ACCESS read-create
22     STATUS current
23     DESCRIPTION
24         "This attribute indicates the type of credential used for the 8021x authen-
25         tication."
26     ::= { dot11WNMRequestEntry 42 }
27
28     dot11WNMRqstLCILocIndParams OBJECT-TYPE
29     SYNTAX OCTET STRING (SIZE(17))
30     MAX-ACCESS read-create
31     STATUS current
32     DESCRIPTION
33         "This attribute indicates STA Location reporting characteristics. The for-
34         mat of these Location Indication Parameters are detailed in 7.3.2.66.2"
35     ::= { dot11WNMRequestEntry 43 }
36
37     dot11WNMRqstLCIChanList OBJECT-TYPE
38     SYNTAX OCTET STRING (SIZE(0..255))
39     MAX-ACCESS read-create
40     STATUS current
41     DESCRIPTION
42         "This attribute lists location reporting channel information for this LCI
43         request. Zero length is the null default for this attribute. Each pair of
44         octets indicates a different regulatory class and channel number for this
45         request. The detailed format for this list of channels is described in
46         7.3.2.66.3"
47     DEFVAL { ''H }
48     ::= { dot11WNMRequestEntry 44 }
49
50     dot11WNMRqstLCIBcastRate OBJECT-TYPE
51     SYNTAX INTEGER (0..65535)
52     UNITS "0.5Mbps"
53     MAX-ACCESS read-create
54     STATUS current
55     DESCRIPTION
56         "This attribute indicates the data rate, in 0.5Mb/s units, at which the STA
57         broadcasts Location Track Notification frames."
58     ::= { dot11WNMRequestEntry 45 }
59
60     dot11WNMRqstBssTransitQueryReason OBJECT-TYPE
61     SYNTAX INTEGER {
62         unspecified(0),
63         excessiveFrameLossRatesPoorConditions(1),
64         excessiveDelayForCurrentTrafficStreams(2),
65         insufficientQosCapacityForCurrentTrafficStreams(3),
66         firstAssociationToEss(4),
67         loadBalancing(5),
68         betterApFound(6),
69         deauthenticatedDisassociatedFromPreviousAp(7),
70         certificateToken(8),
71         apFailedIeee8021XEapAuthentication(9),
72         apFailed4wayHandshake(10),

```

```

1         excessiveDataMICFailures(11),
2         exceededFrameTransmissionRetryLimit(12),
3         excessiveBroadcastDisassociations(13),
4         excessiveBroadcastDeauthentications(14),
5         previousTransitionFailed(15),
6     }
7     MAX-ACCESS read-create
8     STATUS current
9     DESCRIPTION
10        "This attribute indicates the reason for the BSS Transition Query. The
11        format for this list of reasons is further detailed in 7.3.2.63.2."
12    ::= { dot11WNMRequestEntry 46 }
13
14    dot11WNMRqstBssTransitReqMode OBJECT-TYPE
15        SYNTAX OCTET STRING (SIZE(1))
16        MAX-ACCESS read-create
17        STATUS current
18        DESCRIPTION
19            "This attribute indicates the type of BSS request transition. b0 indi-
20            cates the Preferred Candidate list is included in this frame. b1 indicates
21            sn sbridged format for all BSSIDs not listed in this frame. b2 indicates
22            that the STA will be disassociated for the current A. The format for this
23            field is detailed in 7.4.11.8."
24        ::= { dot11WNMRequestEntry 47 }
25
26    dot11WNMRqstBssTransitDisocTimer OBJECT-TYPE
27        SYNTAX INTEGER (1..255)
28        UNITS "TBTTs"
29        MAX-ACCESS read-create
30        STATUS current
31        DESCRIPTION
32            "This attribute indicates the number of beacon transmission times (TBTTs)
33            until the serving AP sends a Disassociation frame to this STA. If the Dis-
34            association Imminent bit of the Request Mode field is set to 0, this field
35            is ignored."
36        ::= { dot11WNMRequestEntry 48 }
37
38    dot11WNMRqstBssTransitValidityInterval OBJECT-TYPE
39        SYNTAX INTEGER (1..255)
40        UNITS "TBTTs"
41        MAX-ACCESS read-create
42        STATUS current
43        DESCRIPTION
44            "This attribute indicates the number of beacon transmission times (TBTTs)
45            until this recommendation of this BSS transition candidate is no longer
46            valid."
47        ::= { dot11WNMRequestEntry 49 }
48
49    dot11WNMRqstBssTransitCandidateList OBJECT-TYPE
50        SYNTAX OCTET STRING (SIZE(0..2304))
51        MAX-ACCESS read-create
52        STATUS current
53        DESCRIPTION
54            "This attribute lists one or more Neighbor Report elements described in
55            7.3.2.37. If the STA has no Transition Candidate information in response to
56            the BSS Transition Management Query frame, the candidate list size is set
57            to 0. "
58        ::= { dot11WNMRequestEntry 50 }
59
60    dot11WNMRqstColocInterfAutoEnable OBJECT-TYPE
61        SYNTAX TruthValue
62        MAX-ACCESS read-create
63        STATUS current
64        DESCRIPTION
65            "This attribute, when TRUE, indicates that the requesting STA requests the
66            receiving STA to send the Co-located Interference Response frames automati-
67            cally with the Report Period interval, as defined in 7.4.11.13, or when the
68            STA detects a change in the co-located interference."
69        ::= { dot11WNMRequestEntry 51 }
70
71    dot11WNMRqstColocInterfRptTimeout OBJECT-TYPE
72        SYNTAX INTEGER (0..127)

```

```

1      UNITS "100 TUs"
2      MAX-ACCESS read-create
3      STATUS current
4      DESCRIPTION
5          "This attribute indicates the minimum duration between two consecutive Co-
6          located Interference Response frames from the reporting STA."
7      ::= { dot11WNMRequestEntry 52 }
8
9  dot11WNMRqstVendorSpecific OBJECT-TYPE
10     SYNTAX OCTET STRING (SIZE(0..255))
11     MAX-ACCESS read-create
12     STATUS current
13     DESCRIPTION
14         "This attribute provides an envelope for any optional vendor specific sub-
15         elements which may be included in a WNM request element. Zero length is the
16         null default for this attribute."
17     DEFVAL { 'H' }
18     ::= { dot11WNMRequestEntry 53 }
19
20 -- *****
21 -- * End of dot11WNMRequest TABLE
22 -- *****
23
24 -- *****
25 -- * Wireless Network Management Reports:
26 -- * Report tables contain WNM reports received by this STA or
27 -- * results of WNM requests performed by this STA.
28 -- *****
29
30 dot11WNMReport OBJECT IDENTIFIER ::= { dot11WirelessNetworkManagement 2 }
31
32 -- *****
33 -- * dot11WNMVendorSpecificReport TABLE
34 -- *****
35     dot11WNMVendorSpecificReportTable OBJECT-TYPE
36     SYNTAX SEQUENCE OF Dot11WNMVendorSpecificReportEntry
37     MAX-ACCESS not-accessible
38     STATUS current
39     DESCRIPTION
40         "Group contains the current list of Vendor Specific 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 1 }
48
49     dot11WNMVendorSpecificReportEntry OBJECT-TYPE
50     SYNTAX Dot11WNMVendorSpecificReportEntry
51     MAX-ACCESS not-accessible
52     STATUS current
53     DESCRIPTION
54         "An entry in the dot11WNMVendorSpecificReportTable Indexed by
55         dot11WNMVendorSpecificRprtIndex."
56     INDEX { dot11WNMVendorSpecificRprtIndex }
57     ::= { dot11WNMVendorSpecificReportTable 1 }
58
59     Dot11WNMVendorSpecificReportEntry ::=
60     SEQUENCE {
61         dot11WNMVendorSpecificRprtIndex          Unsigned32,
62         dot11WNMVendorSpecificRprtRqstToken     OCTET STRING,
63         dot11WNMVendorSpecificRprtIfIndex       InterfaceIndex,
64         dot11WNMVendorSpecificRprtContent       OCTET STRING }
65
66     dot11WNMVendorSpecificRprtIndex OBJECT-TYPE
67     SYNTAX Unsigned32
68     MAX-ACCESS not-accessible
69     STATUS current
70     DESCRIPTION
71         "Index for Vendor Specific Report elements in
72         dot11WNMVendorSpecificReportTable, greater than 0."

```

```

1      ::= { dot11WNMVendorSpecificReportEntry 1 }
2
3  dot11WNMVendorSpecificRprtRqstToken OBJECT-TYPE
4      SYNTAX OCTET STRING
5      MAX-ACCESS read-only
6      STATUS current
7      DESCRIPTION
8          "This attribute indicates the request token that was indicated in the WNM
9          request that generated this measurement report. This should be an exact
10         match to the original dot11WNMRqstToken attribute. Note that there may be
11         multiple entries in the table that match this value since a single request
12         may generate multiple WNM reports."
13     ::= { dot11WNMVendorSpecificReportEntry 2 }
14
15 dot11WNMVendorSpecificRprtIfIndex OBJECT-TYPE
16     SYNTAX InterfaceIndex
17     MAX-ACCESS read-only
18     STATUS current
19     DESCRIPTION
20         "The ifIndex for this row of WNMVendorSpecific Report has been received
21         on."
22     ::= { dot11WNMVendorSpecificReportEntry 3 }
23
24 dot11WNMVendorSpecificRprtContent OBJECT-TYPE
25     SYNTAX OCTET STRING (SIZE(0..255))
26     MAX-ACCESS read-create
27     STATUS current
28     DESCRIPTION
29         "This attribute provides an envelope for all the vendor specific sub-ele-
30         ments which may be included in a WNM Vendor Specific request element. Zero
31         length is the null default for this attribute."
32     DEFVAL { 'H' }
33     ::= { dot11WNMVendorSpecificReportEntry 4 }
34
35 -- *****
36 -- * End of dot11WNMVendorSpecificReport TABLE
37 -- *****
38
39 -- *****
40 -- * dot11WNMMulticastDiagnosticReport TABLE
41 -- *****
42
43 dot11WNMMulticastDiagnosticReportTable OBJECT-TYPE
44     SYNTAX SEQUENCE OF Dot11WNMMulticastDiagnosticReportEntry
45     MAX-ACCESS not-accessible
46     STATUS current
47     DESCRIPTION
48         "Group contains the current list of Multicast Diagnostic reports that have
49         been received by the MLME. The report tables shall be maintained as FIFO to
50         preserve freshness, thus the rows in this table can be deleted for memory
51         constraints or other implementation constraints determined by the vendor.
52         New rows shall have different RprtIndex values than those deleted within
53         the range limitation of the index. One easy way is to monotonically
54         increase RprtIndex for new reports being written in the table."
55     ::= { dot11WNMReport 2 }
56
57 dot11WNMMulticastDiagnosticReportEntry OBJECT-TYPE
58     SYNTAX Dot11WNMMulticastDiagnosticReportEntry
59     MAX-ACCESS not-accessible
60     STATUS current
61     DESCRIPTION
62         "An entry in the dot11WNMMulticastDiagnosticReportTable Indexed by
63         dot11WNMMulticastDiagnosticRprtIndex."
64     INDEX { dot11WNMMulticastDiagnosticRprtIndex }
65     ::= { dot11WNMMulticastDiagnosticReportTable 1 }
66
67 Dot11WNMMulticastDiagnosticReportEntry ::=
68     SEQUENCE {
69         dot11WNMMulticastDiagnosticRprtIndex                Unsigned32,
70         dot11WNMMulticastDiagnosticRprtRqstToken          OCTET STRING,
71         dot11WNMMulticastDiagnosticRprtIfIndex            InterfaceIndex,
72         dot11WNMMulticastDiagnosticRprtMeasurementTime    TSFType,
73         dot11WNMMulticastDiagnosticRprtDuration           Unsigned32,

```

```

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

```



```

1      DESCRIPTION
2          "This attribute indicates the reason why the measuring STA sent the Multi-
3          cast Diagnostics report.  b0 indicates Report Timeout Trigger.  b1 indi-
4          cates the Performance Measurement.  These are defined further in
5          7.3.22.10a."
6      ::= { dot11WNMMulticastDiagnosticReportEntry 7 }
7
8      dot11WNMMulticastDiagnosticRprtRcvdMsduCount OBJECT-TYPE
9          SYNTAX Unsigned32
10         MAX-ACCESS read-create
11         STATUS current
12         DESCRIPTION
13             "This attribute indicates the total number of multicast MSDUs with the
14             indicated Multicast MAC Address that were received during the Measurement
15             Duration.  For a triggered multicast diagnostics measurement this is the
16             total number of frames received with the indicated Multicast MAC Address."
17         DEFVAL { 0 }
18         ::= { dot11WNMMulticastDiagnosticReportEntry 8 }
19
20     dot11WNMMulticastDiagnosticRprtFirstSeqNumber OBJECT-TYPE
21         SYNTAX INTEGER (0..65535)
22         MAX-ACCESS read-only
23         STATUS current
24         DESCRIPTION
25             "This attribute indicates the twelve least significant bits of the First
26             Sequence Number field contain the IEEE 802.11 sequence number of the first
27             frame received with destination address equal to the value in the Multi-
28             cast MAC address field during the measurement period.  The four most signif-
29             icant bits of the First Sequence Number field are set to zero.  This field is
30             used only if the multicast reporting reason is performance measurement;
31             otherwise, it is set to 0."
32         DEFVAL { 0 }
33         ::= { dot11WNMMulticastDiagnosticReportEntry 9 }
34
35     dot11WNMMulticastDiagnosticRprtLastSeqNumber OBJECT-TYPE
36         SYNTAX INTEGER (0..65535)
37         MAX-ACCESS read-only
38         STATUS current
39         DESCRIPTION
40             "This attribute indicates the twelve least significant bits of the Last
41             Sequence Number field is the IEEE 802.11 sequence number of the last frame
42             received with destination address equal to the value in the Multicast MAC
43             address field during the measurement period.  The four most significant bits
44             of the Last Sequence Number field are set to zero.  This field is used only
45             if the multicast reporting reason is performance measurement; otherwise, it
46             is set to 0."
47         DEFVAL { 0 }
48         ::= { dot11WNMMulticastDiagnosticReportEntry 10 }
49
50     dot11WNMMulticastDiagnosticRprtMcstRate OBJECT-TYPE
51         SYNTAX INTEGER (0..65535)
52         UNITS "0.5Mbps"
53         MAX-ACCESS read-create
54         STATUS current
55         DESCRIPTION
56             "This attribute indicates the data rate, in 0.5 Mb/s units, at which the
57             STA requests to receive group addressed frames.  The Multicast Rate field is
58             encoded with the MSB set to 1 to indicate that the data rate is in the
59             basic rate set, and set to 0 to indicate that the data rate is not in the
60             basic rate set.  The remaining 15 bit value is multiplied by 0.5 Mb/s to
61             indicate the data rate.  The Multicast Rate field is set to 0 by the STA to
62             indicate that it has not received a group addressed frame with a valid FCS
63             during the measurement period."
64         ::= { dot11WNMMulticastDiagnosticReportEntry 11 }
65
66     -- *****
67     -- * End of dot11WNMMulticastDiagnosticReport TABLE
68     -- *****
69
70     -- *****
71     -- * dot11WNMLocationCivicReport TABLE

```

```

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

```

```

1         meter increments, defined by a little endian 16 bit unsigned integer. For
2         example, an accuracy estimate of +/- 5 meters is represented by the number
3         X'32'. If the location accuracy estimate in the X-dimension is unknown the
4         field is set to 65535."
5         DEFVAL { 65535 }
6         ::= { dot11WNMLocationCivicReportEntry 4 }
7
8 dot11WNMLocationCivicRprtLocYAccuracy OBJECT-TYPE
9     SYNTAX INTEGER (0..65535)
10    UNITS "0.1M"
11    MAX-ACCESS read-create
12    STATUS current
13    DESCRIPTION
14        "This attribute indicates an estimated accuracy in the Y-dimension in 0.1
15        meter increments, defined by a little endian 16 bit unsigned integer. For
16        example, an accuracy estimate of +/- 5 meters is represented by the number
17        X'32'. If the location accuracy estimate in the Y-dimension is unknown the
18        field is set to 65535."
19        DEFVAL { 65535 }
20        ::= { dot11WNMLocationCivicReportEntry 5 }
21
22 dot11WNMLocationCivicRprtLocZAccuracy OBJECT-TYPE
23     SYNTAX INTEGER (0..65535)
24     UNITS "0.1M"
25     MAX-ACCESS read-create
26     STATUS current
27     DESCRIPTION
28         "This attribute indicates an estimated accuracy in the Z-dimension in 0.1
29         meter increments, defined by a little endian 16 bit unsigned integer. For
30         example, an accuracy estimate of +/- 5 meters is represented by the number
31         X'32'. If the location accuracy estimate in the Z-dimension is unknown the
32         field is set to 65535."
33         DEFVAL { 65535 }
34         ::= { dot11WNMLocationCivicReportEntry 6 }
35
36 dot11WNMLocationCivicRprtCivicLocation OBJECT-TYPE
37     SYNTAX OCTET STRING
38     MAX-ACCESS read-create
39     STATUS current
40     DESCRIPTION
41         "This attribute indicates a variable octet field in wich the format of the
42         data is defined in RFC 4776."
43         ::= { dot11WNMLocationCivicReportEntry 7 }
44
45 -- *****
46 -- * End of dot11WNMLocationCivicReport TABLE
47 -- *****
48
49 -- *****
50 -- * dot11WNMLocationIdentifierReport TABLE
51 -- *****
52     dot11WNMLocationIdentifierReportTable OBJECT-TYPE
53     SYNTAX SEQUENCE OF Dot11WNMLocationIdentifierReportEntry
54     MAX-ACCESS not-accessible
55     STATUS current
56     DESCRIPTION
57         "Group contains the current list of Location Identifier reports that have
58         been received by the MLME. The report tables shall be maintained as FIFO to
59         preserve freshness, thus the rows in this table can be deleted for memory
60         constraints or other implementation constraints determined by the vendor.
61         New rows shall have different RprtIndex values than those deleted within
62         the range limitation of the index. One easy way is to monotonically
63         increase RprtIndex for new reports being written in the table."
64         ::= { dot11WNMLocationIdentifierReportTable 4 }
65
66 dot11WNMLocationIdentifierReportEntry OBJECT-TYPE
67     SYNTAX Dot11WNMLocationIdentifierReportEntry
68     MAX-ACCESS not-accessible
69     STATUS current
70     DESCRIPTION
71         "An entry in the dot11WNMLocationIdentifierReportTable Indexed by
72         dot11WNMLocationIdentifierRprtIndex."

```

```

1      INDEX { dot11WNMLocationIdentifierRprtIndex }
2      ::= { dot11WNMLocationIdentifierReportTable 1 }
3
4  Dot11WNMLocationIdentifierReportEntry ::=
5      SEQUENCE {
6          dot11WNMLocationIdentifierRprtIndex                Unsigned32,
7          dot11WNMLocationIdentifierRprtRqstToken           OCTET STRING,
8          dot11WNMLocationIdentifierRprtIfIndex             InterfaceIndex,
9          dot11WNMLocationIdentifierRprtPublicIdUri         OCTET STRING }
10
11 dot11WNMLocationIdentifierRprtIndex OBJECT-TYPE
12     SYNTAX Unsigned32
13     MAX-ACCESS not-accessible
14     STATUS current
15     DESCRIPTION
16         "Index for Location Identifier Report elements in
17         dot11WNMLocationIdentifierReportTable, greater than 0."
18     ::= { dot11WNMLocationIdentifierReportEntry 1 }
19
20 dot11WNMLocationIdentifierRprtRqstToken OBJECT-TYPE
21     SYNTAX OCTET STRING
22     MAX-ACCESS read-only
23     STATUS current
24     DESCRIPTION
25         "This attribute indicates the request token that was indicated in the WNM
26         request that generated this measurement report. This should be an exact
27         match to the original dot11WNMRqstToken attribute. Note that there may be
28         multiple entries in the table that match this value since a single request
29         may generate multiple WNM reports."
30     ::= { dot11WNMLocationIdentifierReportEntry 2 }
31
32 dot11WNMLocationIdentifierRprtIfIndex OBJECT-TYPE
33     SYNTAX InterfaceIndex
34     MAX-ACCESS read-only
35     STATUS current
36     DESCRIPTION
37         "The ifIndex for this row of WNMLocationIdentifier Report has been received
38         on."
39     ::= { dot11WNMLocationIdentifierReportEntry 3 }
40
41 dot11WNMLocationIdentifierRprtPublicIdUri OBJECT-TYPE
42     SYNTAX OCTET STRING
43     MAX-ACCESS read-create
44     STATUS current
45     DESCRIPTION
46         "This attribute indicates a variable octet field in URI (aka URL) format,
47         provided to comply with RFC 3693."
48     ::= { dot11WNMLocationIdentifierReportEntry 4 }
49
50 -- *****
51 -- * End of dot11WNMLocationIdentifierReport TABLE
52 -- *****
53
54 -- *****
55 -- * dot11WNMEventTransitReport TABLE
56 -- *****
57
58 dot11WNMEventTransitReportTable OBJECT-TYPE
59     SYNTAX SEQUENCE OF Dot11WNMEventTransitReportEntry
60     MAX-ACCESS not-accessible
61     STATUS current
62     DESCRIPTION
63         "Group contains the current list of Transition Event reports that have been
64         received by the MLME. The report tables shall be maintained as FIFO to pre-
65         serve freshness, thus the rows in this table can be deleted for memory con-
66         straints or other implementation constraints determined by the vendor. New
67         rows shall have different RprtIndex values than those deleted within the
68         range limitation of the index. One easy way is to monotonically increase
69         RprtIndex for new reports being written in the table."
70     ::= { dot11WNMReport 5 }
71
72 dot11WNMEventTransitReportEntry OBJECT-TYPE
73     SYNTAX Dot11WNMEventTransitReportEntry

```

```

1      MAX-ACCESS not-accessible
2      STATUS current
3      DESCRIPTION
4          "An entry in the dot11WNMEventTransitReportTable Indexed by
5      INDEX { dot11WNMEventTransitRprtIndex }
6      ::= { dot11WNMEventTransitReportTable 1 }
7
8  Dot11WNMEventTransitReportEntry ::=
9      SEQUENCE {
10         dot11WNMEventTransitRprtIndex          Unsigned32,
11         dot11WNMEventTransitRprtRqstToken      OCTET STRING,
12         dot11WNMEventTransitRprtIfIndex        InterfaceIndex,
13         dot11WNMEventTransitRprtSourceBssid    MacAddress,
14         dot11WNMEventTransitRprtTargetBssid    MacAddress,
15         dot11WNMEventTransitRprtTransitTime    INTEGER,
16         dot11WNMEventTransitRprtTransitReason  INTEGER,
17         dot11WNMEventTransitRprtTransitResult  INTEGER,
18         dot11WNMEventTransitRprtSourceRCPI     INTEGER,
19         dot11WNMEventTransitRprtSourceRSNI     INTEGER,
20         dot11WNMEventTransitRprtTargetRCPI     INTEGER,
21         dot11WNMEventTransitRprtTargetRSNI     INTEGER }
22
23 dot11WNMEventTransitRprtIndex OBJECT-TYPE
24     SYNTAX Unsigned32
25     MAX-ACCESS not-accessible
26     STATUS current
27     DESCRIPTION
28         "Index for Transition Event Report elements in
29     ::= { dot11WNMEventTransitReportTable, greater than 0."
30     ::= { dot11WNMEventTransitReportEntry 1 }
31
32 dot11WNMEventTransitRprtRqstToken OBJECT-TYPE
33     SYNTAX OCTET STRING
34     MAX-ACCESS read-only
35     STATUS current
36     DESCRIPTION
37         "This attribute indicates the request token that was indicated in the WNM
38     request that generated this measurement report. This should be an exact
39     match to the original dot11WNMRqstToken attribute. Note that there may be
40     multiple entries in the table that match this value since a single request
41     may generate multiple WNM reports."
42     ::= { dot11WNMEventTransitReportEntry 2 }
43
44 dot11WNMEventTransitRprtIfIndex OBJECT-TYPE
45     SYNTAX InterfaceIndex
46     MAX-ACCESS read-only
47     STATUS current
48     DESCRIPTION
49         "The ifIndex for this row of WNMEventTransit Report has been received on."
50     ::= { dot11WNMEventTransitReportEntry 3 }
51
52 dot11WNMEventTransitRprtSourceBssid OBJECT-TYPE
53     SYNTAX MacAddress
54     MAX-ACCESS read-create
55     STATUS current
56     DESCRIPTION
57         "This attribute indicates the source BSSID for the reported transition
58     event."
59     ::= { dot11WNMEventTransitReportEntry 4 }
60
61 dot11WNMEventTransitRprtTargetBssid OBJECT-TYPE
62     SYNTAX MacAddress
63     MAX-ACCESS read-create
64     STATUS current
65     DESCRIPTION
66         "This attribute indicates the target BSSID for the reported transition
67     event."
68     ::= { dot11WNMEventTransitReportEntry 5 }
69
70 dot11WNMEventTransitRprtTransitTime OBJECT-TYPE
71     SYNTAX INTEGER (0..65535)

```

```

1      UNITS "TUs"
2      MAX-ACCESS read-create
3      STATUS current
4      DESCRIPTION
5          "This attribute indicates the transition time for the reported transition
6          event in TUs. The Transition time is defined as the time difference between
7          the starting time and the ending time of a transition between APs, even if
8          the transition results in remaining on the same AP. Start and end times for
9          a transition event are defined in 11.20.3.2"
10     ::= { dot11WNMEventTransitReportEntry 6 }
11
12 dot11WNMEventTransitRprtTransitReason OBJECT-TYPE
13     SYNTAX INTEGER {
14         unspecified(0),
15         excessiveFrameLossRatesPoorConditions(1),
16         excessiveDelayForCurrentTrafficStreams(2),
17         insufficientQosCapacityForCurrentTrafficStreams(3),
18         firstAssociationToEss(4),
19         loadBalancing(5),
20         betteApFound(6),
21         deauthenticatedDisassociatedFromPreviousAp(7),
22         certificateToken(8),
23         apFailedIeee8021XEapAuthentication(9),
24         apFailed4wayHandshake(10),
25         excessiveDataMICFailures(11),
26         exceededFrameTransmissionRetryLimit(12),
27         excessiveBroadcastDisassociations(13),
28         excessiveBroadcastDeauthentications(14),
29         previousTransitionFailed(15),
30     }
31     MAX-ACCESS read-create
32     STATUS current
33     DESCRIPTION
34         "This attribute indicates the reason for the reported BSS Transition event.
35         The format for this list of reasons is further detailed in 7.3.2.63.2."
36     ::= { dot11WNMEventTransitReportEntry 7 }
37
38 dot11WNMEventTransitRprtTransitResult OBJECT-TYPE
39     SYNTAX INTEGER (0..65535)
40     UNITS "TUs"
41     MAX-ACCESS read-create
42     STATUS current
43     DESCRIPTION
44         "This attribute indicates the result of the attempted transition and is set
45         to one of the Status Codes specified in Table7-23 in 7.3.1.9."
46     ::= { dot11WNMEventTransitReportEntry 8 }
47
48 dot11WNMEventTransitRprtSourceRCPI OBJECT-TYPE
49     SYNTAX INTEGER(0..255)
50     MAX-ACCESS read-only
51     STATUS current
52     DESCRIPTION
53         "This attribute indicates the received channel power of the most recently
54         measured frame from the Source BSSID before the STA reassociates to the
55         Target BSSID. The Source RCPI is reported in dBm, as defined in the RCPI
56         measurement clause for the PHY Type."
57     ::= { dot11WNMEventTransitReportEntry 9 }
58
59 dot11WNMEventTransitRprtSourceRSNI OBJECT-TYPE
60     SYNTAX INTEGER(0..255)
61     UNITS "0.5 dB"
62     MAX-ACCESS read-only
63     STATUS current
64     DESCRIPTION
65         "This attribute indicates the received signal to noise indication of the
66         most recently measured frame from the Source BSSID before the STA reassoci-
67         ates to the Target BSSID. The Source RSNI is reported in dB, as defined in
68         7.3.2.41."
69     ::= { dot11WNMEventTransitReportEntry 10 }
70
71 dot11WNMEventTransitRprtTargetRCPI OBJECT-TYPE
72     SYNTAX INTEGER(0..255)

```

```

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

```

```

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

```



```

1           "This attribute contains the entire contents of the negotiated RSN informa-
2           tion element at the time of the authentication attempt. The format of the
3           RSN information element is defined in 7.3.2.25."
4           DEFVAL { 'H' }
5           ::= { dot11WNMEventRснаReportEntry 8 }
6
7           -- *****
8           -- * End of dot11WNMEventRснаReport TABLE
9           -- *****
10          -- *****
11          -- * dot11WNMEventPeerReport TABLE
12          -- *****
13          dot11WNMEventPeerReportTable OBJECT-TYPE
14          SYNTAX SEQUENCE OF Dot11WNMEventPeerReportEntry
15          MAX-ACCESS not-accessible
16          STATUS current
17          DESCRIPTION
18          "Group contains the current list of Peer-to-Peer Event reports that have
19          been received by the MLME. The report tables shall be maintained as FIFO to
20          preserve freshness, thus the rows in this table can be deleted for memory
21          constraints or other implementation constraints determined by the vendor.
22          New rows shall have different RprtIndex values than those deleted within
23          the range limitation of the index. One easy way is to monotonically
24          increase RprtIndex for new reports being written in the table."
25          ::= { dot11WNMReport 7 }
26
27          dot11WNMEventPeerReportEntry OBJECT-TYPE
28          SYNTAX Dot11WNMEventPeerReportEntry
29          MAX-ACCESS not-accessible
30          STATUS current
31          DESCRIPTION
32          "An entry in the dot11WNMEventPeerReportTable Indexed by
33          dot11WNMEventPeerRprtIndex."
34          INDEX { dot11WNMEventPeerRprtIndex }
35          ::= { dot11WNMEventPeerReportTable 1 }
36
37          Dot11WNMEventPeerReportEntry ::=
38          SEQUENCE {
39              dot11WNMEventPeerRprtIndex                Unsigned32,
40              dot11WNMEventPeerRprtRqstToken           OCTET STRING,
41              dot11WNMEventPeerRprtIfIndex             InterfaceIndex,
42              dot11WNMEventPeerRprtPeerMacAddress      MacAddress,
43              dot11WNMEventPeerRprtRegulatoryClass     INTEGER,
44              dot11WNMEventPeerRprtChanNumber         INTEGER,
45              dot11WNMEventPeerRprtStaTxPower         Integer32,
46              dot11WNMEventPeerRprtConnTime           INTEGER,
47              dot11WNMEventPeerRprtPeerStatus         INTEGER }
48
49          dot11WNMEventPeerRprtIndex OBJECT-TYPE
50          SYNTAX Unsigned32
51          MAX-ACCESS not-accessible
52          STATUS current
53          DESCRIPTION
54          "Index for Peer-to-Peer Event Report elements in
55          dot11WNMEventPeerReportTable, greater than 0."
56          ::= { dot11WNMEventPeerReportEntry 1 }
57
58          dot11WNMEventPeerRprtRqstToken OBJECT-TYPE
59          SYNTAX OCTET STRING
60          MAX-ACCESS read-only
61          STATUS current
62          DESCRIPTION
63          "This attribute indicates the request token that was indicated in the WNM
64          request that generated this measurement report. This should be an exact
65          match to the original dot11WNMRqstToken attribute. Note that there may be
66          multiple entries in the table that match this value since a single request
67          may generate multiple WNM reports."
68          ::= { dot11WNMEventPeerReportEntry 2 }
69
70          dot11WNMEventPeerRprtIfIndex OBJECT-TYPE
71          SYNTAX InterfaceIndex

```

```

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

```

```

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

```

```

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

```

```

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

```

```

1         attribute contains an ASCII string identifying the version of firmware cur-
2         rently installed on the wireless network adaptor. This string is not null
3         terminated."
4         DEFVAL { 'H' }
5         ::= { dot11WNMDiagMfrInfoReportEntry 8 }
6
7 dot11WNMDiagMfrInfoRprtMfrAntennaType OBJECT-TYPE
8     SYNTAX OCTET STRING (SIZE(0..255))
9     MAX-ACCESS read-create
10    STATUS current
11    DESCRIPTION
12        "This attribute indicates the Manufacturer antenna type string for the
13        reported Manufacturer Information STA Diagnostic. The antenna type
14        attribute contains an ASCII string indicating the type of antenna con-
15        nected to the wireless network adaptor."
16    DEFVAL { 'H' }
17    ::= { dot11WNMDiagMfrInfoReportEntry 9 }
18
19 dot11WNMDiagMfrInfoRprtMfrAntennaGain OBJECT-TYPE
20     SYNTAX OCTET STRING (SIZE(1))
21     MAX-ACCESS read-create
22     STATUS current
23     DESCRIPTION
24         "This attribute indicates the Manufacturer antenna gain string for the
25         reported Manufacturer Information STA Diagnostic. The antenna gain
26         attribute contains the peak gain in dBi of the antenna connected to the
27         wireless network adaptor."
28     DEFVAL { 'H' }
29     ::= { dot11WNMDiagMfrInfoReportEntry 10 }
30
31 -- *****
32 -- * End of dot11WNMDiagMfrInfoReport TABLE
33 -- *****
34
35 -- *****
36 -- * dot11WNMDiagConfigProfReport TABLE
37 -- *****
38
39 dot11WNMDiagConfigProfReportTable OBJECT-TYPE
40     SYNTAX SEQUENCE OF Dot11WNMDiagConfigProfReportEntry
41     MAX-ACCESS not-accessible
42     STATUS current
43     DESCRIPTION
44         "Group contains the current list of Configuration Profile reports that have
45         been received by the MLME. The report tables shall be maintained as FIFO to
46         preserve freshness, thus the rows in this table can be deleted for memory
47         constraints or other implementation constraints determined by the vendor.
48         New rows shall have different RprtIndex values than those deleted within
49         the range limitation of the index. One easy way is to monotonically
50         increase RprtIndex for new reports being written in the table."
51     ::= { dot11WNMReport 10 }
52
53 dot11WNMDiagConfigProfReportEntry OBJECT-TYPE
54     SYNTAX Dot11WNMDiagConfigProfReportEntry
55     MAX-ACCESS not-accessible
56     STATUS current
57     DESCRIPTION
58         "An entry in the dot11WNMDiagConfigProfReportTable Indexed by
59         dot11WNMDiagConfigProfRprtIndex."
60     INDEX { dot11WNMDiagConfigProfRprtIndex }
61     ::= { dot11WNMDiagConfigProfReportTable 1 }
62
63 Dot11WNMDiagConfigProfReportEntry ::=
64     SEQUENCE {
65         dot11WNMDiagConfigProfRprtIndex                Unsigned32,
66         dot11WNMDiagConfigProfRprtRqstToken            OCTET STRING,
67         dot11WNMDiagConfigProfRprtRqstTokendot11WNMDiagConfigProfRprtIfIndexOCTET
68         STRINGInterfaceIndex,
69         dot11WNMDiagConfigProfRprtIfIndexdot11WNMDiagConfigProfRprtProfileIdInter-
70         faceIndexINTEGER,
71         dot11WNMDiagConfigProfRprtSupportedRegClasses  OCTET STRING,
72         dot11WNMDiagConfigProfRprtTxPowerMode          INTEGER,
73         dot11WNMDiagConfigProfRprtTxPowerLevels        OCTET STRING,

```

```

1      dot11WNMDiagConfigProfRprtCipherSuite          OCTET STRING,
2      dot11WNMDiagConfigProfRprtAkmSuite            OCTET STRING,
3      dot11WNMDiagConfigProfRprtEapMethod          OCTET STRING,
4      dot11WNMDiagConfigProfRprtSSID                OCTET STRING,
5      dot11WNMDiagConfigProfRprtContent            dot11WNMDiagConfigProfRprtPowerSaveMode
6      OCTET STRING INTEGER }
7
8      dot11WNMDiagConfigProfRprtIndex OBJECT-TYPE
9      SYNTAX Unsigned32
10     MAX-ACCESS not-accessible
11     STATUS current
12     DESCRIPTION
13         "Index for Configuration Profile Report elements in
14         dot11WNMDiagConfigProfReportTable, greater than 0."
15     ::= { dot11WNMDiagConfigProfReportEntry 1 }
16
17     dot11WNMDiagConfigProfRprtRqstToken OBJECT-TYPE
18     SYNTAX OCTET STRING
19     MAX-ACCESS read-only
20     STATUS current
21     DESCRIPTION
22         "This attribute indicates the request token that was indicated in the WNM
23         request that generated this measurement report. This should be an exact
24         match to the original dot11WNMRqstToken attribute. Note that there may be
25         multiple entries in the table that match this value since a single request
26         may generate multiple WNM reports."
27     ::= { dot11WNMDiagConfigProfReportEntry 2 }
28
29     dot11WNMDiagConfigProfRprtIfIndex OBJECT-TYPE
30     SYNTAX InterfaceIndex
31     MAX-ACCESS read-only
32     STATUS current
33     DESCRIPTION
34         "The ifIndex for this row of WNMDiagConfigProf Report has been received
35         on."
36     ::= { dot11WNMDiagConfigProfReportEntry 3 }
37
38     dot11WNMDiagConfigProfRprtProfileId OBJECT-TYPE
39     SYNTAX INTEGER (0..255)
40     MAX-ACCESS read-create
41     STATUS current
42     DESCRIPTION
43         "This attribute indicates a unique identifier for referencing a configura-
44         tion profile available on a device. The value of the identifier can be any
45         arbitrary value, as long as it is uniquely associated to a single configu-
46         ration profile on the device sending the identifier."
47     ::= { dot11WNMDiagConfigProfReportEntry 4 }
48
49     dot11WNMDiagConfigProfRprtSupportedRegClasses OBJECT-TYPE
50     SYNTAX OCTET STRING (SIZE(0..255))
51     MAX-ACCESS read-create
52     STATUS current
53     DESCRIPTION
54         "This attribute indicates the current Regulatory Class followed by a list
55         of each Supported Regulatory Class, as defined in 7.3.2.51. Each octet con-
56         tains an integer representing a regulatory class. Zero length is the null
57         default for this attribute."
58     DEFVAL { 'H' }
59     ::= { dot11WNMDiagConfigProfReportEntry 5 }
60
61     dot11WNMDiagConfigProfRprtTxPowerMode OBJECT-TYPE
62     SYNTAX INTEGER {
63         fixedPowerMode(0),
64         automaticPowerMode(1)
65     }
66     MAX-ACCESS read-create
67     STATUS current
68     DESCRIPTION
69         "This attribute indicates the power mode of the STA."
70     ::= { dot11WNMDiagConfigProfReportEntry 3 6 }
71
72     dot11WNMDiagConfigProfRprtContent dot11WNMDiagConfigProfRprtTxPowerLevels OBJECT-TYPE

```

```

1      SYNTAX OCTET STRING (SIZE(0..255))
2      MAX-ACCESS read-create
3      STATUS current
4      DESCRIPTION
5          "This attribute lists the power levels for the STA. Each octet contains an
6          integer representing a power level encoded as a 2's complement value in
7          dBm, rounded to the nearest integer. If the Power Mode is automatic, the
8          list contains only the minimum and the maximum power levels for the STA. If
9          the Power Mode is fixed, the list contains all the fixed power level set-
10         tings available at this STA."
11         ::= { dot11WNMDiagConfigProfReportEntry 7 }
12
13     dot11WNMDiagConfigProfRprtCipherSuite OBJECT-TYPE
14     SYNTAX OCTET STRING (SIZE(4))
15     MAX-ACCESS read-create
16     STATUS current
17     DESCRIPTION
18         "This attribute indicates the cipher suite, as defined in Table 7-32. The
19         first three octets indicate the OUI. The last octet indicates the suite
20         type."
21         ::= { dot11WNMDiagConfigProfReportEntry 8 }
22
23     dot11WNMDiagConfigProfRprtAkmSuite OBJECT-TYPE
24     SYNTAX OCTET STRING (SIZE(4))
25     MAX-ACCESS read-create
26     STATUS current
27     DESCRIPTION
28         "This attribute indicates the AKM suite, as defined in Table 7-34. The
29         first three octets indicate the OUI. The last octet indicates the suite
30         type."
31         ::= { dot11WNMDiagConfigProfReportEntry 9 }
32
33     dot11WNMDiagConfigProfRprtEapMethod OBJECT-TYPE
34     SYNTAX OCTET STRING (SIZE(1..8))
35     MAX-ACCESS read-create
36     STATUS current
37     DESCRIPTION
38         "This attribute indicates the IANA assigned EAP type as defined at http://www.iana.org/assignments/eap-numbers. The EAP type contains either the leg-
39         acy type (1 octet) or the expanded type (1 octet type = 254, 3-octet Ven-
40         dor ID, 4-octet Vendor-Type)."
41         ::= { dot11WNMDiagConfigProfReportEntry 10 }
42
43     dot11WNMDiagConfigProfRprtSSID OBJECT-TYPE
44     SYNTAX OCTET STRING (SIZE(1..32))
45     MAX-ACCESS read-create
46     STATUS current
47     DESCRIPTION
48         "This attribute indicates the SSID for the diagnostic report, as defined in
49         7.3.2.1."
50         ::= { dot11WNMDiagConfigProfReportEntry 11 }
51
52     dot11WNMDiagConfigProfRprtPowerSaveMode OBJECT-TYPE
53     SYNTAX INTEGER {
54         unknownMode(0),
55         none(1),
56         psDtims1Mode(2),
57         psDtims0Mode(3),
58         uapsdMode(4),
59         sapsdMode(5),
60         upsmode(6),
61         spsmode(7),
62         wnmSleepMode(8),
63         fbmsMode(9),
64         timBroadcastMode(10),
65         tfsMode(11)
66     }
67     MAX-ACCESS read-create
68     STATUS current
69     DESCRIPTION
70         "This attribute provides an envelope for indicates the Configuration Pro-
71         file sub-elements required power save mode in use by the WNM request ele-

```



```

1      ment. Zero length is the null default for this attributeSTA, as defined in
2      Table 7-v14."
3      DEFVAL { 'H' }
4      ::= { dot11WNMDiagConfigProfReportEntry 4 12 }
5
6      -- *****
7      -- * End of dot11WNMDiagConfigProfReport TABLE
8      -- *****
9
10     -- *****
11     -- * dot11WNMDiagAssocReport TABLE
12     -- *****
13     dot11WNMDiagAssocReportTable OBJECT-TYPE
14     SYNTAX SEQUENCE OF Dot11WNMDiagAssocReportEntry
15     MAX-ACCESS not-accessible
16     STATUS current
17     DESCRIPTION
18         "Group contains the current list of Association Diagnostic reports that
19         have been received by the MLME. The report tables shall be maintained as
20         FIFO to preserve freshness, thus the rows in this table can be deleted for
21         memory constraints or other implementation constraints determined by the
22         vendor. New rows shall have different RprtIndex values than those deleted
23         within the range limitation of the index. One easy way is to monotonically
24         increase RprtIndex for new reports being written in the table."
25     ::= { dot11WNMReport 11 }
26
27     dot11WNMDiagAssocReportEntry OBJECT-TYPE
28     SYNTAX Dot11WNMDiagAssocReportEntry
29     MAX-ACCESS not-accessible
30     STATUS current
31     DESCRIPTION
32         "An entry in the dot11WNMDiagAssocReportTable Indexed by
33         dot11WNMDiagAssocRprtIndex."
34     INDEX { dot11WNMDiagAssocRprtIndex }
35     ::= { dot11WNMDiagAssocReportTable 1 }
36
37     Dot11WNMDiagAssocReportEntry ::=
38     SEQUENCE {
39         dot11WNMDiagAssocRprtIndex                Unsigned32,
40         dot11WNMDiagAssocRprtRqstToken           OCTET STRING,
41         dot11WNMDiagAssocRprtIfIndex             InterfaceIndex,
42         dot11WNMDiagAssocRprtBssid               MacAddress,
43         dot11WNMDiagAssocRprtRegulatoryClass     INTEGER,
44         dot11WNMDiagAssocRprtChannelNumber       INTEGER,
45         dot11WNMDiagAssocRprtContentdot11WNMDiagAssocRprtStatusCodeOCTET STRING
46         INTEGER }
47
48     dot11WNMDiagAssocRprtIndex OBJECT-TYPE
49     SYNTAX Unsigned32
50     MAX-ACCESS not-accessible
51     STATUS current
52     DESCRIPTION
53         "Index for Association Diagnostic Report elements in
54         dot11WNMDiagAssocReportTable, greater than 0."
55     ::= { dot11WNMDiagAssocReportEntry 1 }
56
57     dot11WNMDiagAssocRprtRqstToken OBJECT-TYPE
58     SYNTAX OCTET STRING
59     MAX-ACCESS read-only
60     STATUS current
61     DESCRIPTION
62         "This attribute indicates the request token that was indicated in the WNM
63         request that generated this measurement report. This should be an exact
64         match to the original dot11WNMRqstToken attribute. Note that there may be
65         multiple entries in the table that match this value since a single request
66         may generate multiple WNM reports."
67     ::= { dot11WNMDiagAssocReportEntry 2 }
68
69     dot11WNMDiagAssocRprtIfIndex OBJECT-TYPE
70     SYNTAX InterfaceIndex
71     MAX-ACCESS read-only
72     STATUS current

```

```

1      DESCRIPTION
2          "The ifIndex for this row of WNMdiagAssoc Report has been received on."
3      ::= { dot11WNMdiagAssocReportEntry 3 }
4
5      dot11WNMdiagAssocRprtBssid OBJECT-TYPE
6          SYNTAX MacAddress
7          MAX-ACCESS read-create
8          STATUS current
9          DESCRIPTION
10             "This attribute indicates the BSSID for the target AP for this Association
11             Diagnostic Report."
12         ::= { dot11WNMdiagAssocReportEntry 4 }
13
14     dot11WNMdiagAssocRprtRegulatoryClass OBJECT-TYPE
15         SYNTAX INTEGER(1..255)
16         MAX-ACCESS read-create
17         STATUS current
18         DESCRIPTION
19             "This attribute indicates the regulatory class of the target AP for this
20             Association Diagnostic Report. Valid values of Regulatory Class are shown
21             in Annex J."
22         REFERENCE
23             "Annex J"
24         ::= { dot11WNMdiagAssocReportEntry 5 }
25
26     dot11WNMdiagAssocRprtChannelNumber OBJECT-TYPE
27         SYNTAX INTEGER (1..255)
28         MAX-ACCESS read-create
29         STATUS current
30         DESCRIPTION
31             "This attribute indicates the operating channel of the target AP for this
32             Association Diagnostic Report. The Channel Number is only defined within
33             the indicated Regulatory Class for this WNM request."
34         ::= { dot11WNMdiagAssocReportEntry 3 6 }
35
36     dot11WNMdiagAssocRprtContent dot11WNMdiagAssocRprtStatusCode OBJECT-TYPE
37         SYNTAX OCTET STRING (SIZEINTEGER (0..255)65535)
38         MAX-ACCESS read-create
39         STATUS current
40         DESCRIPTION
41             "This attribute provides an envelope for the Association Diagnostic sub-
42             elements required by the WNM request element. Zero length is the null
43             default for this attribute."
44         DEFVAL { 'H' }
45         "This attribute indicates the result of the association diagnostic and is
46         set to one of the Status Codes specified in Table7-23 in 7.3.1.9."
47         ::= { dot11WNMdiagAssocReportEntry 4 7 }
48
49     -- *****
50     -- * End of dot11WNMdiagAssocReport TABLE
51     -- *****
52
53     -- *****
54     -- * dot11WNMdiag8021xAuthReport TABLE
55     -- *****
56     dot11WNMdiag8021xAuthReportTable OBJECT-TYPE
57         SYNTAX SEQUENCE OF Dot11WNMdiag8021xAuthReportEntry
58         MAX-ACCESS not-accessible
59         STATUS current
60         DESCRIPTION
61             "Group contains the current list of 802.1X Authentication Diagnostic
62             reports that have been received by the MLME. The report tables shall be
63             maintained as FIFO to preserve freshness, thus the rows in this table can
64             be deleted for memory constraints or other implementation constraints
65             determined by the vendor. New rows shall have different RprtIndex values
66             than those deleted within the range limitation of the index. One easy way
67             is to monotonically increase RprtIndex for new reports being written in the
68             table."
69         ::= { dot11WNMReport 12 }
70
71     dot11WNMdiag8021xAuthReportEntry OBJECT-TYPE
72         SYNTAX Dot11WNMdiag8021xAuthReportEntry

```

```

1      MAX-ACCESS not-accessible
2      STATUS current
3      DESCRIPTION
4          "An entry in the dot11WNMDiag8021xAuthReportTable Indexed by
5      INDEX { dot11WNMDiag8021xAuthRprtIndex }
6      ::= { dot11WNMDiag8021xAuthReportTable 1 }
7
8      Dot11WNMDiag8021xAuthReportEntry ::=
9      SEQUENCE {
10         dot11WNMDiag8021xAuthRprtIndex                Unsigned32,
11         dot11WNMDiag8021xAuthRprtRqstToken            OCTET STRING,
12         dot11WNMDiag8021xAuthRprtIfIndex              InterfaceIndex,
13         dot11WNMDiag8021xAuthRprtBssid                MacAddress,
14         dot11WNMDiag8021xAuthRprtRegulatoryClass      INTEGER,
15         dot11WNMDiag8021xAuthRprtChannelNumber        INTEGER,
16         dot11WNMDiag8021xAuthRprtContent              dot11WNMDiag8021xAuthRprtEapMethodOCTET
17         STRING }STRING,
18         dot11WNMDiag8021xAuthRprt8021xCredentials    INTEGER,
19         dot11WNMDiag8021xAuthRprtStatusCode           INTEGER }
20
21     dot11WNMDiag8021xAuthRprtIndex OBJECT-TYPE
22     SYNTAX Unsigned32
23     MAX-ACCESS not-accessible
24     STATUS current
25     DESCRIPTION
26         "Index for 802.1X Authentication Diagnostic Report elements in
27         dot11WNMDiag8021xAuthReportTable, greater than 0."
28     ::= { dot11WNMDiag8021xAuthReportEntry 1 }
29
30     dot11WNMDiag8021xAuthRprtRqstToken OBJECT-TYPE
31     SYNTAX OCTET STRING
32     MAX-ACCESS read-only
33     STATUS current
34     DESCRIPTION
35         "This attribute indicates the request token that was indicated in the WNM
36         request that generated this measurement report. This should be an exact
37         match to the original dot11WNMRqstToken attribute. Note that there may be
38         multiple entries in the table that match this value since a single request
39         may generate multiple WNM reports."
40     ::= { dot11WNMDiag8021xAuthReportEntry 2 }
41
42     dot11WNMDiag8021xAuthRprtIfIndex OBJECT-TYPE
43     SYNTAX InterfaceIndex
44     MAX-ACCESS read-only
45     STATUS current
46     DESCRIPTION
47         "The ifIndex for this row of WNMDiag8021xAuth Report has been received on."
48     ::= { dot11WNMDiag8021xAuthReportEntry 3 }
49
50     dot11WNMDiag8021xAuthRprtContent dot11WNMDiag8021xAuthRprtBssid OBJECT-TYPE
51     SYNTAX MacAddress
52     MAX-ACCESS read-create
53     STATUS current
54     DESCRIPTION
55         "This attribute indicates the BSSID for the target AP for this Authentica-
56         tion Diagnostic Report."
57     ::= { dot11WNMDiag8021xAuthReportEntry 4 }
58
59     dot11WNMDiag8021xAuthRprtRegulatoryClass OBJECT-TYPE
60     SYNTAX INTEGER(1..255)
61     MAX-ACCESS read-create
62     STATUS current
63     DESCRIPTION
64         "This attribute indicates the regulatory class of the target AP for this
65         Authentication Diagnostic Report. Valid values of Regulatory Class are
66         shown in Annex J."
67     REFERENCE
68         "Annex J"
69     ::= { dot11WNMDiag8021xAuthReportEntry 5 }
70
71     dot11WNMDiag8021xAuthRprtChannelNumber OBJECT-TYPE

```

```

1      SYNTAX OCTET STRING INTEGER (SIZE(01..255))
2      MAX-ACCESS read-create
3      STATUS current
4      DESCRIPTION
5          "This attribute indicates the operating channel of the target AP for this
6          Authentication Diagnostic Report. The Channel Number is only defined within
7          the indicated Regulatory Class for this WNM request."
8      ::= { dot11WNMDiag8021xAuthReportEntry 6 }
9
10     dot11WNMDiag8021xAuthRprtEapMethod OBJECT-TYPE
11     SYNTAX OCTET STRING (SIZE(1..8))
12     MAX-ACCESS read-create
13     STATUS current
14     DESCRIPTION
15         "This attribute indicates the IANA assigned EAP type as defined at http://
16         www.iana.org/assignments/eap-numbers. The EAP type contains either the leg-
17         acy type (1 octet) or the expanded type (1 octet type = 254, 3-octet Ven-
18         dor ID, 4-octet Vendor-Type)."
19     ::= { dot11WNMDiag8021xAuthReportEntry 7 }
20
21     dot11WNMDiag8021xAuthRprt8021xCredentials OBJECT-TYPE
22     SYNTAX INTEGER {
23         none(0),
24         preSharedKey(1),
25         userNamePassword(2),
26         x509Certificate(3),
27         otherCertificate(4),
28         oneTimePassword(5),
29         token(6),
30         certificateUserNamePassword(7),
31         certificateToken(8)
32     }
33     MAX-ACCESS read-create
34     STATUS current
35     DESCRIPTION
36         "This attribute provides an envelope for indicates the type of 802.1X
37         Authentication Diagnostic sub-elements required lx credentials used by the
38         WNM request element. Zero length is the null default STA for this attribu-
39         teauthentication diagnostic."
40     DEFVAL { 'H' }
41     ::= { dot11WNMDiag8021xAuthReportEntry 8 }
42
43     dot11WNMDiag8021xAuthRprtStatusCode OBJECT-TYPE
44     SYNTAX INTEGER (0..65535)
45     MAX-ACCESS read-create
46     STATUS current
47     DESCRIPTION
48         "This attribute indicates the result of the authentication diagnostic and
49         is set to one of the Status Codes specified in Table7-23 in 7.3.1.9."
50     ::= { dot11WNMDiag8021xAuthReportEntry 4 9 }
51
52     -- *****
53     -- * End of dot11WNMDiag8021xAuthReport TABLE
54     -- *****
55
56     -- *****
57     -- * dot11WNMLCIReport TABLE
58     -- *****
59     dot11WNMLCIReportTable OBJECT-TYPE
60     SYNTAX SEQUENCE OF Dot11WNMLCIReportEntry
61     MAX-ACCESS not-accessible
62     STATUS current
63     DESCRIPTION
64         "Group contains the current list of Location Configuration reports that
65         have been received by the MLME. The report tables shall be maintained as
66         FIFO to preserve freshness, thus the rows in this table can be deleted for
67         memory constraints or other implementation constraints determined by the
68         vendor. New rows shall have different RprtIndex values than those deleted
69         within the range limitation of the index. One easy way is to monotonically
70         increase RprtIndex for new reports being written in the table."
71     ::= { 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         dot11WNMLCIRprtLocIndParams         OCTET STRING,
16         dot11WNMLCIRprtLCIChanList          OCTET STRING,
17         dot11WNMLCIRprtLCISubElementID      INTEGER,
18         dot11WNMLCIRprtLCIStatus            INTEGER,
19         dot11WNMLCIRprtTxPower              INTEGER,
20         dot11WNMLCIRprtAntennaID            INTEGER,
21         dot11WNMLCIRprtAntennaGain          INTEGER,
22         dot11WNMLCIRprtRCPI                 INTEGER,
23         dot11WNMLCIRprtRSNI                 INTEGER,
24         dot11WNMLCIRprtMotionIndicator      INTEGER,
25         dot11WNMLCIRprtBearing              INTEGER,
26         dot11WNMLCIRprtSpeedUnits           INTEGER,
27         dot11WNMLCIRprtHorizontalSpeed      INTEGER,
28         dot11WNMLCIRprtVerticalSpeed        INTEGER,
29         dot11WNMLCIRprtIndexdot11WNMLCIRprtLCIBcastRate Unsigned32INTEGER,
30         dot11WNMLCIRprtRqstTokendot11WNMLCIRprtTODTimestamp OCTET STRING,
31         dot11WNMLCIRprtRqstTokendot11WNMLCIRprtTODTolerance OCTET STRING,
32         dot11WNMLCIRprtIfIndexdot11WNMLCIRprtTODUnits      InterfaceIndexINTEGER,
33         dot11WNMLCIRprtContentdot11WNMLCIRprtVendorSpecificRprtContentOCTET STRING
34     }
35
36 dot11WNMLCIRprtIndex OBJECT-TYPE
37     SYNTAX Unsigned32
38     MAX-ACCESS not-accessible
39     STATUS current
40     DESCRIPTION
41         "Index for Location Configuration Report elements in
42         dot11WNMLCIReportTable, greater than 0."
43     ::= { dot11WNMLCIReportEntry 1 }
44
45 dot11WNMLCIRprtRqstToken OBJECT-TYPE
46     SYNTAX OCTET STRING
47     MAX-ACCESS read-only
48     STATUS current
49     DESCRIPTION
50         "This attribute indicates the request token that was indicated in the WNM
51         request that generated this measurement report. This should be an exact
52         match to the original dot11WNMRqstToken attribute. Note that there may be
53         multiple entries in the table that match this value since a single request
54         may generate multiple WNM reports."
55     ::= { dot11WNMLCIReportEntry 2 }
56
57 dot11WNMLCIRprtIfIndex OBJECT-TYPE
58     SYNTAX InterfaceIndex
59     MAX-ACCESS read-only
60     STATUS current
61     DESCRIPTION
62         "The ifIndex for this row of WNMLCI Report has been received on."
63     ::= { dot11WNMLCIReportEntry 3 }
64
65 dot11WNMLCIRprtLocIndParams OBJECT-TYPE
66     SYNTAX OCTET STRING (SIZE(17))
67     MAX-ACCESS read-create
68     STATUS current
69     DESCRIPTION
70         "This attribute indicates STA Location reporting characteristics. The for-
71         mat of these Location Indication Parameters are detailed in 7.3.2.66.2"
72     ::= { dot11WNMLCIReportEntry 4 }

```

```

1  dot11WNMLCIRprtLCIChanList OBJECT-TYPE
2      SYNTAX OCTET STRING (SIZE(0..255))
3      MAX-ACCESS read-create
4      STATUS current
5      DESCRIPTION
6          "This attribute lists location reporting channel information for this LCI
7          request. Zero length is the null default for this attribute. Each pair of
8          octets indicates a different regulatory class and channel number for this
9          request. The detailed format for this list of channels is described in
10         7.3.2.66.3"
11     DEFVAL { 'H' }
12     ::= { dot11WNMLCIRprtLCIReportEntry 5 }
13
14 dot11WNMLCIRprtLCISubElementID OBJECT-TYPE
15     SYNTAX INTEGER (0..255)
16     MAX-ACCESS read-create
17     STATUS current
18     DESCRIPTION
19         "This attribute indicates the specific Location Parameters sub-element ID
20         transmitted in the LCI Request frame for this Report. Additional detail and
21         exceptions are described in 7.3.2.66.4"
22     ::= { dot11WNMLCIRprtLCIReportEntry 6 }
23
24 dot11WNMLCIRprtLCIStatus OBJECT-TYPE
25     SYNTAX INTEGER {
26         successful(0),
27         failed(1),
28         refused(2),
29         incapable(3),
30         cancelled(4),
31     }
32     MAX-ACCESS read-create
33     STATUS current
34     DESCRIPTION
35         "This attribute indicates the status of this LCI report."
36     ::= { dot11WNMLCIRprtLCIReportEntry 7 }
37
38 dot11WNMLCIRprtTxPower OBJECT-TYPE
39     SYNTAX INTEGER(0..255)
40     MAX-ACCESS read-write
41     STATUS current
42     DESCRIPTION
43         "This attribute indicates the STA transmit power used to transmit the LCI
44         Report. The Tx Power field indicates the target transmit power at the
45         antenna in a two's complement integer in dBm with a tolerance of +/-
46         5dB."
47     ::= { dot11WNMLCIRprtLCIReportEntry 8 }
48
49 dot11WNMLCIRprtAntennaID OBJECT-TYPE
50     SYNTAX INTEGER(0..255)
51     MAX-ACCESS read-only
52     STATUS current
53     DESCRIPTION
54         "This attribute indicates the identifying number for the antenna used to
55         transmit the LCI Report. The value 0 indicates that the antenna identifier
56         is unknown. The value 255 indicates that the measurement was made with
57         multiple antennas or that the antenna ID is unknown. that the antenna iden-
58         tifier is unknown. The value 255 indicates that this measurement was made
59         with multiple antennas. The value 1 is used for a STA with only one
60         antenna. STAs with more than one antenna shall assign Antenna IDs to each
61         antenna as consecutive, ascending numbers. Each Antenna ID number repre-
62         sents a unique antenna characterized by a fixed relative position, a fixed
63         relative direction and a peak gain for that position and direction."
64     ::= { dot11WNMLCIRprtLCIReportEntry 9 }
65
66 dot11WNMLCIRprtAntennaGain OBJECT-TYPE
67     SYNTAX INTEGER(0..255)
68     MAX-ACCESS read-onlywrite
69     STATUS current
70     DESCRIPTION
71         "This attribute indicates the antenna gain of the antenna used to transmit

```

```

1         the LCI Report. The Antenna Gain indicates antenna gain in a two's com-
2         plement integer in dB. The value -128 indicates the antenna gain is
3         unknown."
4         ::= { dot11WNMLCIReportEntry 10 }
5
6 dot11WNMLCIRprtRCPI OBJECT-TYPE
7     SYNTAX INTEGER(0..255)
8     MAX-ACCESS read-only
9     STATUS current
10    DESCRIPTION
11        "This attribute indicates the received channel power of the most recently
12        measured Location Configuration Request frame. The RCPI is reported in
13        dBm, as defined in the RCPI measurement clause for the PHY Type."
14    ::= { dot11WNMLCIReportEntry 11 }
15
16 dot11WNMLCIRprtRSNI OBJECT-TYPE
17     SYNTAX INTEGER(0..255)
18     UNITS "0.5 dB"
19     MAX-ACCESS read-only
20     STATUS current
21     DESCRIPTION
22        "This attribute indicates the received signal to noise indication of the
23        most recently measured Location Configuration Request frame. The RSNI is
24        reported in dB, as defined in 7.3.2.41."
25    ::= { dot11WNMLCIReportEntry 12 }
26
27 dot11WNMLCIRprtMotionIndicator OBJECT-TYPE
28     SYNTAX INTEGER {
29         stationary(0),
30         startOfMotion(1),
31         inMotion(2),
32         endOfMotion(3),
33         unknown(4)
34     }
35     MAX-ACCESS read-create
36     STATUS current
37     DESCRIPTION
38        "The ifIndex for this row This attribute indicates the state of WNMLCI
39        Report has been received on the motion indicator."
40    ::= { dot11WNMLCIReportEntry 13 }
41
42 dot11WNMLCIRprtBearing OBJECT-TYPE
43     SYNTAX INTEGER (0..65535)
44     MAX-ACCESS read-only
45     STATUS current
46     DESCRIPTION
47        "This attribute indicates the direction of travel for the STA motion.
48        Bearing is reported in azimuth degrees from true north, from 0 to 359. The
49        value 65535 indicates that the bearing is unknown."
50    ::= { dot11WNMLCIReportEntry 14 }
51
52 dot11WNMLCIRprtSpeedUnits OBJECT-TYPE
53     SYNTAX INTEGER {
54         centimetersPerSecond(0),
55         metersPerSecond(1)
56     }
57     MAX-ACCESS read-create
58     STATUS current
59     DESCRIPTION
60        "This attribute indicates the speed units used to report the vertical and
61        horizontal speed."
62    ::= { dot11WNMLCIReportEntry 15 }
63
64 dot11WNMLCIRprtHorizontalSpeed OBJECT-TYPE
65     SYNTAX INTEGER(0..255)
66     MAX-ACCESS read-only
67     STATUS current
68     DESCRIPTION
69        "This attribute indicates the horizontal speed of the STA. The value 65535
70        indicates that the speed is unknown."
71    ::= { dot11WNMLCIReportEntry 16 }

```

```

1 dot11WNMLCIRprtVerticalSpeed OBJECT-TYPE
2     SYNTAX INTEGER(0..255)
3     MAX-ACCESS read-only
4     STATUS current
5     DESCRIPTION
6         "This attribute indicates the vertical speed of the STA. The value 65535
7         indicates that the speed is unknown."
8     ::= { dot11WNMLCIReportEntry 17 }
9
10 dot11WNMLCIRprtLCIBcastRate OBJECT-TYPE
11     SYNTAX INTEGER (0..65535)
12     UNITS "0.5Mbps"
13     MAX-ACCESS read-create
14     STATUS current
15     DESCRIPTION
16         "This attribute indicates the data rate, in 0.5Mb/s units, at which the STA
17         broadcasts Location Track Notification frames."
18     ::= { dot11WNMLCIReportEntry 18 }
19
20 dot11WNMLCIRprtTODTimestamp OBJECT-TYPE
21     SYNTAX OCTET STRING (SIZE(4))
22     MAX-ACCESS read-create
23     STATUS current
24     DESCRIPTION
25         "This attribute indicates the value of the TOD timestamp counter at a con-
26         stant interval before the frame carrying the TOD timestamp is transmitted
27         in units specified by the TOD Units field."
28     ::= { dot11WNMLCIReportEntry 19 }
29
30 dot11WNMLCIRprtTODTolerance OBJECT-TYPE
31     SYNTAX OCTET STRING (SIZE(2))
32     MAX-ACCESS read-create
33     STATUS current
34     DESCRIPTION
35         "This attribute indicates the 95% tolerance of the TOD Timestamp field
36         value"
37     ::= { dot11WNMLCIReportEntry 20 }
38
39 dot11WNMLCIRprtTODUnits OBJECT-TYPE
40     SYNTAX INTEGER {
41         todu22(0),
42         todu20(1),
43         todu40(2),
44         todu16(3)
45     }
46     MAX-ACCESS read-create
47     STATUS current
48     DESCRIPTION
49         "This attribute indicates the units for the TOD timestamp field. Details
50         are provided in 7.3.2.66.8."
51     ::= { dot11WNMLCIReportEntry 3 21 }
52
53 dot11WNMLCIRprtContent dot11WNMLCIRprtVendorSpecificRprtContent 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 all the Location Configuration
59         vendor specific sub-elements required by the WNM request which may be
60         included in LCI report element. Zero length is the null default for this
61         attribute."
62     DEFVAL { ''H }
63     ::= { dot11WNMLCIReportEntry 4 22 }
64
65 -- *****
66 -- * End of dot11WNMLCIReport TABLE
67 -- *****
68
69 -- *****
70 -- * dot11WNMBssTransitReport TABLE
71 -- *****
72 dot11WNMBssTransitReportTable OBJECT-TYPE

```



```

1      SYNTAX SEQUENCE OF Dot11WNMBssTransitReportEntry
2      MAX-ACCESS not-accessible
3      STATUS current
4      DESCRIPTION
5          "Group contains the current list of BSS Transition Management reports that
6          have been received by the MLME. The report tables shall be maintained as
7          FIFO to preserve freshness, thus the rows in this table can be deleted for
8          memory constraints or other implementation constraints determined by the
9          vendor. New rows shall have different RprtIndex values than those deleted
10         within the range limitation of the index. One easy way is to monotonically
11         increase RprtIndex for new reports being written in the table."
12     ::= { dot11WNMReport 14 }
13
14 dot11WNMBssTransitReportEntry OBJECT-TYPE
15     SYNTAX Dot11WNMBssTransitReportEntry
16     MAX-ACCESS not-accessible
17     STATUS current
18     DESCRIPTION
19         "An entry in the dot11WNMBssTransitReportTable Indexed by
20         dot11WNMBssTransitRprtIndex."
21     INDEX { dot11WNMBssTransitRprtIndex }
22     ::= { dot11WNMBssTransitReportTable 1 }
23
24 Dot11WNMBssTransitReportEntry ::=
25     SEQUENCE {
26         dot11WNMBssTransitRprtIndex                Unsigned32,
27         dot11WNMBssTransitRprtRqstToken           OCTET STRING,
28         dot11WNMBssTransitRprtIfIndex             InterfaceIndex,
29         dot11WNMBssTransitRprtStatus              INTEGER,
30         dot11WNMBssTransitRprtContentdot11WNMBssTransitRprtTargetBssidOCTET STRING
31         MacAddress }
32
33 dot11WNMBssTransitRprtIndex OBJECT-TYPE
34     SYNTAX Unsigned32
35     MAX-ACCESS not-accessible
36     STATUS current
37     DESCRIPTION
38         "Index for BSS Transition Management Report elements in
39         dot11WNMBssTransitReportTable, greater than 0."
40     ::= { dot11WNMBssTransitReportEntry 1 }
41
42 dot11WNMBssTransitRprtRqstToken OBJECT-TYPE
43     SYNTAX OCTET STRING
44     MAX-ACCESS read-only
45     STATUS current
46     DESCRIPTION
47         "This attribute indicates the request token that was indicated in the WNM
48         request that generated this measurement report. This should be an exact
49         match to the original dot11WNMRqstToken attribute. Note that there may be
50         multiple entries in the table that match this value since a single request
51         may generate multiple WNM reports."
52     ::= { dot11WNMBssTransitReportEntry 2 }
53
54 dot11WNMBssTransitRprtIfIndex OBJECT-TYPE
55     SYNTAX InterfaceIndex
56     MAX-ACCESS read-only
57     STATUS current
58     DESCRIPTION
59         "The ifIndex for this row of WNM Bss Transit Report has been received on."
60     ::= { dot11WNMBssTransitReportEntry 3 }
61
62 dot11WNMBssTransitRprtStatus OBJECT-TYPE
63     SYNTAX INTEGER {
64         accept(0),
65         rejectUnspecified(1),
66         rejectInsufficientBeacons(2),
67         rejectInsufficientCapacity(3)
68     }
69     MAX-ACCESS read-create
70     STATUS current
71     DESCRIPTION
72         "This attribute indicates the status of this BSS Transition report."

```

```

1 ::= { dot11WNMBssTransitReportEntry 3 4 }
2
3 dot11WNMBssTransitRprtContent dot11WNMBssTransitRprtTargetBssid OBJECT-TYPE
4 SYNTAX OCTET STRING (SIZE(0..255))
5 SYNTAX MacAddress
6 MAX-ACCESS read-create
7 STATUS current
8 DESCRIPTION
9 "This attribute provides an envelope for the BSS Transition Management sub-
10 elements required by the WNM request element. Zero length is the null
11 default for this attribute."
12 DEFVAL { 'H' }
13 "This attribute indicates the target BSSID for this BSS Transition Report."
14 ::= { dot11WNMBssTransitReportEntry 4 5 }
15
16 -- *****
17 -- * End of dot11WNMBssTransitReport TABLE
18 -- *****
19
20 -- *****
21 -- * dot11WNMColocInterfReport TABLE
22 -- *****
23 dot11WNMColocInterfReportTable OBJECT-TYPE
24 SYNTAX SEQUENCE OF Dot11WNMColocInterfReportEntry
25 MAX-ACCESS not-accessible
26 STATUS current
27 DESCRIPTION
28 "Group contains the current list of Co-located Interference reports that
29 have been received by the MLME. The report tables shall be maintained as
30 FIFO to preserve freshness, thus the rows in this table can be deleted for
31 memory constraints or other implementation constraints determined by the
32 vendor. New rows shall have different RprtIndex values than those deleted
33 within the range limitation of the index. One easy way is to monotonically
34 increase RprtIndex for new reports being written in the table."
35 ::= { dot11WNMReport 16 }
36
37 dot11WNMColocInterfReportEntry OBJECT-TYPE
38 SYNTAX Dot11WNMColocInterfReportEntry
39 MAX-ACCESS not-accessible
40 STATUS current
41 DESCRIPTION
42 "An entry in the dot11WNMColocInterfReportTable Indexed by
43 dot11WNMColocInterfRprtIndex."
44 INDEX { dot11WNMColocInterfRprtIndex }
45 ::= { dot11WNMColocInterfReportTable 1 }
46
47 Dot11WNMColocInterfReportEntry ::=
48 SEQUENCE {
49     dot11WNMColocInterfRprtIndex Unsigned32,
50     dot11WNMColocInterfRprtRqstToken OCTET STRING,
51     dot11WNMColocInterfRprtIfIndex InterfaceIndex,
52     dot11WNMColocInterfRprtPeriod INTEGER,
53     dot11WNMColocInterfRprtInterfLevel INTEGER,
54     dot11WNMColocInterfRprtInterfAccuracy INTEGER,
55     dot11WNMColocInterfRprtInterfIndex INTEGER,
56     dot11WNMColocInterfRprtInterfInterval Integer32,
57     dot11WNMColocInterfRprtInterfBurstLength Integer32,
58     dot11WNMColocInterfRprtInterfStartTime Integer32,
59     dot11WNMColocInterfRprtInterfCenterFreq INTEGER,
60     dot11WNMColocInterfRprtContentdot11WNMColocInterfRprtInterfBandwidthOCTET
61     STRING INTEGER }
62
63 dot11WNMColocInterfRprtIndex OBJECT-TYPE
64 SYNTAX Unsigned32
65 MAX-ACCESS not-accessible
66 STATUS current
67 DESCRIPTION
68 "Index for Co-located Interference Report elements in
69 dot11WNMColocInterfReportTable, greater than 0."
70 ::= { dot11WNMColocInterfReportEntry 1 }
71
72 dot11WNMColocInterfRprtRqstToken OBJECT-TYPE

```

```

1      SYNTAX OCTET STRING
2      MAX-ACCESS read-only
3      STATUS current
4      DESCRIPTION
5          "This attribute indicates the request token that was indicated in the WNM
6          request that generated this measurement report. This should be an exact
7          match to the original dot11WNMRqstToken attribute. Note that there may be
8          multiple entries in the table that match this value since a single request
9          may generate multiple WNM reports."
10     ::= { dot11WNMColocInterfReportEntry 2 }
11
12 dot11WNMColocInterfRprtIfIndex OBJECT-TYPE
13     SYNTAX InterfaceIndex
14     MAX-ACCESS read-only
15     STATUS current
16     DESCRIPTION
17         "The ifIndex for this row of WNMColocInterf Report has been received on."
18     ::= { dot11WNMColocInterfReportEntry 3 }
19
20 dot11WNMColocInterfRprtPeriod OBJECT-TYPE
21     SYNTAX INTEGER(0..255)
22     UNITS "100 TU"
23     MAX-ACCESS read-only
24     STATUS current
25     DESCRIPTION
26         "This attribute indicates how often the STA automatically reports the co-
27         located interference. The field is in units of 100 TUs. If the Report
28         Period field is set to 0, then the reporting is not periodic, and a report
29         is generated when the STA detects a change in the co-located interference.
30         See 11.20.11 for further details."
31     ::= { dot11WNMColocInterfReportEntry 4 }
32
33 dot11WNMColocInterfRprtInterfLevel OBJECT-TYPE
34     SYNTAX INTEGER(0..255)
35     UNITS "dBm"
36     MAX-ACCESS read-only
37     STATUS current
38     DESCRIPTION
39         "This attribute indicates the level of the co-located interference in a 2's
40         complement signed integer in units of dBm averaged over a 4 s period dur-
41         ing an interference period. When the interference level is unknown, the
42         field is set to 127dBm. When the interference level is equal or greater
43         than 126dBm, the field is set to 126dBm. If no co-located interference is
44         present the field is set to -128 dBm. The interference level is referenced
45         to the antenna connector used for reception."
46     ::= { dot11WNMColocInterfReportEntry 5 }
47
48 dot11WNMColocInterfRprtInterfAccuracy OBJECT-TYPE
49     SYNTAX INTEGER(0..15)
50     UNITS "dB"
51     MAX-ACCESS read-only
52     STATUS current
53     DESCRIPTION
54         "This attribute indicates an unsigned integer indicating the expected accu-
55         racy of the estimate of interference in dB with 95% confidence interval. If
56         the Interference Level field is X (dBm) and the expected accuracy field is
57         Y (dB), the actual interference level is in the range of [X - Y, X +Y] with
58         the probability of 95%. If accuracy is unknown then the Expected Accuracy
59         field is set to 15."
60     ::= { dot11WNMColocInterfReportEntry 6 }
61
62 dot11WNMColocInterfRprtInterfIndex OBJECT-TYPE
63     SYNTAX INTEGER(0..15)
64     MAX-ACCESS read-only
65     STATUS current
66     DESCRIPTION
67         "This attribute indicates the interference index that is unique for each
68         type of interference source. The field set to 0 indicates that no co-
69         located interference is present. See 11.20.11 for further details."
70     ::= { dot11WNMColocInterfReportEntry 7 }
71
72 dot11WNMColocInterfRprtInterfInterval OBJECT-TYPE

```

```

1      SYNTAX Integer32
2      UNITS "microseconds"
3      MAX-ACCESS read-write
4      STATUS current
5      DESCRIPTION
6          "This attribute indicates the interval between two successive periods of
7          interference in microseconds. When the interval between two successive
8          periods of interference is variable the field is set to 2E32-1. When the
9          interval between two successive periods of interference is equal or greater
10         than 232-2 the field is set to 2E32-2. If no co-located interference is
11         present the field is set to 0."
12     ::= { dot11WNMColocInterfReportEntry 8 }
13
14 dot11WNMColocInterfRprtInterfBurstLength OBJECT-TYPE
15     SYNTAX Integer32
16     UNITS "microseconds"
17     MAX-ACCESS read-write
18     STATUS current
19     DESCRIPTION
20         "This attribute indicates the duration of each period of interference in
21         microseconds. When the duration of each period of interference is variable
22         the field is set to 2E32-1). When the duration of each period of interfer-
23         ence is equal or greater than 2E32-2 the field is set to 2E32-2. If no co-
24         located interference is present the field is set to 0."
25     ::= { dot11WNMColocInterfReportEntry 9 }
26
27 dot11WNMColocInterfRprtInterfStartTime OBJECT-TYPE
28     SYNTAX Integer32
29     MAX-ACCESS read-write
30     STATUS current
31     DESCRIPTION
32         "This attribute contains the least significant 4 octets (i.e. B0-B31) of
33         the TSF timer at the start of the next interference burst. When either the
34         Interference Interval or the Interference Burst Length fields are set to
35         2E32-1, this field indicates the average duty cycle. The average duty cycle
36         value is defined as Round-to-Integer ((2E32-2)[average interference burst
37         length (microsecond)]/[average interference interval (microsecond)]). When
38         the interference is non-periodic the Interference Start Time field is set
39         to 0. If no co-located interference is present the field is set to 0."
40     ::= { dot11WNMColocInterfReportEntry 10 }
41
42 dot11WNMColocInterfRprtInterfCenterFreq OBJECT-TYPE
43     SYNTAX INTEGER (0..65535)
44     UNITS "2 MHz"
45     MAX-ACCESS read-create
46     STATUS current
47     DESCRIPTION
48         "This attribute indicates the center frequency of interference in 2 MHz.
49         When center frequency is unknown or interference covers the whole channel,
50         the center frequency of the channel is reported. If no co-located interfer-
51         ence is present the field is set to 0."
52     ::= { dot11WNMColocInterfReportEntry 3 11 }
53
54 dot11WNMColocInterfRprtContent dot11WNMColocInterfRprtInterfBandwidth OBJECT-TYPE
55     SYNTAX OCTET STRING (SIZEINTEGER (0..255)65535)
56     UNITS "5 KHz"
57     MAX-ACCESS read-create
58     STATUS current
59     DESCRIPTION
60         "This attribute provides an envelope for the Co-located Interference sub-
61         elements required by the WNM request element. Zero length is the null
62         default for this attribute."
63     DEFVAL { 'H' }
64         "This attribute indicates the bandwidth at the -3dB roll-off point of the
65         interference signal in 5 kHz. When bandwidth of the interference signal is
66         unknown, the field is set to 65535. When bandwidth of the interference sig-
67         nal is equal or greater than 65534 the field is set to 65534. If no co-
68         located interference is present the field is set to 0."
69     ::= { dot11WNMColocInterfReportEntry 4 12 }
70
71 -- *****
72 -- * End of dot11WNMColocInterfReport TABLE

```

```

1  -- *****
2
3  dot11SMTWNMRequest OBJECT-GROUP
4      OBJECTS { dot11WNMRqstIndex,
5                 dot11WNMRqstRowStatus,
6                 dot11WNMRqstToken,
7                 dot11WNMRqstIfIndex,
8                 dot11WNMRqstType,
9                 dot11WNMRqstTargetAdd,
10                dot11RRMRqstTimeStamp,
11                dot11WNMRqstRndInterval,
12                dot11WNMRqstDuration,
13                dot11WNMRqstMcstGroup,
14                dot11WNMRqstMcstTrigCon,
15                dot11WNMRqstMcstRprtTimeout,
16                dot11WNMRqstMcstTrigTimeout,
17                dot11WNMRqstLCRRqstSubject,
18                dot11WNMRqstLCRIntervalUnits,
19                dot11WNMRqstLCRServiceInterval,
20                dot11WNMRqstLIRRqstSubject,
21                dot11WNMRqstLIRIntervalUnits,
22                dot11WNMRqstLIRServiceInterval,
23                dot11WNMRqstEventToken,
24                dot11WNMRqstEventType,
25                dot11WNMRqstEventResponseLimit,
26                dot11WNMRqstEventTargetBssid,
27                dot11WNMRqstEventSourceBssid,
28                dot11WNMRqstEventTransitTimeThresh,
29                dot11WNMRqstEventTransitMatchValue,
30                dot11WNMRqstEventFreqTransitCountThresh,
31                dot11WNMRqstEventFreqTransitInterval,
32                dot11WNMRqstEventRsnaAuthType,
33                dot11WNMRqstEapType,
34                dot11WNMRqstEapVendorId,
35                dot11WNMRqstEapVendorType,
36                dot11WNMRqstEventRsnaMatchValue,
37                dot11WNMRqstEventPeerMacAddress,
38                dot11WNMRqstChanNumber,
39                dot11WNMRqstRegulatoryClass,
40                dot11WNMRqstChanNumber,
41                dot11WNMRqstDiagToken,
42                dot11WNMRqstDiagType,
43                dot11WNMRqstDiagTimeout,
44                dot11WNMRqstDiagBssid,
45                dot11WNMRqstDiagProfileId,
46                dot11WNMRqstDiag8021xCredentials,
47                dot11WNMRqstLCILocIndParams,
48                dot11WNMRqstLCIChanList,
49                dot11WNMRqstLCIBcastRate,
50                dot11WNMRqstBssTransitQueryReason,
                dot11WNMRqstBssTransitReqMode,
                dot11WNMRqstBssTransitDisocTimer,
                dot11WNMRqstBssTransitValidInterval,
                dot11WNMRqstBssTransitCandidateLis,
                dot11WNMRqstColocInterfAutoEnable,
                dot11WNMRqstColocInterfRptTimeout,
                dot11WNMRqstVendorSpecific,
                dot11RRMRqstVendorSpecific }
51
52      STATUS current
53      DESCRIPTION
54          "The SMTWNMRequest package is a set of attributes that shall be present
55          if the STA supports the Wireless Network Management service."
56      ::= { dot11Groups 54 }
57
58  -- *****
59  -- * Note to Editor: need to coordinate dot11Groups number assignment
60  -- *****
61
62  dot11SMTWNMReport OBJECT-GROUP
63      OBJECTS { dot11WNMVendorSpecificRprtIndex,
64                dot11WNMVendorSpecificRprtRqstToken,

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1 dot11WNMVendorSpecificRprtIfIndex,
2 dot11WNMVendorSpecificRprtContent,
3 dot11WNMMulticastDiagnosticRprtIndex,
4 dot11WNMMulticastDiagnosticRprtRqstToken,
5 dot11WNMMulticastDiagnosticRprtIfIndex,
6 dot11WNMMulticastDiagnosticRprtMeasurementTime,
7 dot11WNMMulticastDiagnosticRprtDuration,
8 dot11WNMMulticastDiagnosticRprtMcstGroup,
9 dot11WNMMulticastDiagnosticRprtReason,
10 dot11WNMMulticastDiagnosticRprtRcvdMsduCount,
11 dot11WNMMulticastDiagnosticRprtFirstSeqNumber,
12 dot11WNMMulticastDiagnosticRprtLastSeqNumber,
13 dot11WNMMulticastDiagnosticRprtMcstRate
14 dot11WNMLocationCivicRprtIndex,
15 dot11WNMLocationCivicRprtRqstToken,
16 dot11WNMLocationCivicRprtIfIndex,
17 dot11WNMLocationCivicRprtContent,
18 dot11WNMLocationCivicRprtLocXAccuracy,
19 dot11WNMLocationCivicRprtLocYAccuracy,
20 dot11WNMLocationCivicRprtLocZAccuracy,
21 dot11WNMLocationCivicRprtCivicLocation,
22 dot11WNMLocationIdentifierRprtIndex,
23 dot11WNMLocationIdentifierRprtRqstToken,
24 dot11WNMLocationIdentifierRprtIfIndex,
25 dot11WNMLocationIdentifierRprtPublicIdUri,
26 dot11WNMEventTransitRprtIndex,
27 dot11WNMEventTransitRprtRqstToken,
28 dot11WNMEventTransitRprtIfIndex,
29 dot11WNMEventTransitRprtSourceBssid,
30 dot11WNMEventTransitRprtTargetBssid,
31 dot11WNMEventTransitRprtTransitTime,
32 dot11WNMEventTransitRprtTransitReason,
33 dot11WNMEventTransitRprtTransitResult,
34 dot11WNMEventTransitRprtSourceRCPI,
35 dot11WNMEventTransitRprtSourceRSNI,
36 dot11WNMEventTransitRprtTargetRCPI,
37 dot11WNMEventTransitRprtTargetRSNI,
38 dot11WNMEventRsnaRprtIndex,
39 dot11WNMEventRsnaRprtRqstToken,
40 dot11WNMEventRsnaRprtIfIndex,
41 dot11WNMEventRsnaRprtTargetBssid,
42 dot11WNMEventRsnaRprtAuthType,
43 dot11WNMEventRsnaRprtEapMethod,
44 dot11WNMEventRsnaRprtResult,
45 dot11WNMEventRsnaRprtRsnElement,
46 dot11WNMEventPeerRprtIndex,
47 dot11WNMEventPeerRprtRqstToken,
48 dot11WNMEventPeerRprtIfIndex,
49 dot11WNMEventPeerRprtPeerMacAddress,
50 dot11WNMEventPeerRprtRegulatoryClass,
dot11WNMEventPeerRprtChanNumber,
dot11WNMEventPeerRprtStaTxPower,
dot11WNMEventPeerRprtConnTime,
dot11WNMEventPeerRprtPeerStatus,
dot11WNMEventSysLogRprtIndex,
dot11WNMEventSysLogRprtRqstToken,
dot11WNMEventSysLogRprtIfIndex,
dot11WNMEventSysLogRprtContent,
dot11WNMDiagMfrInfoRprtIndex,
dot11WNMDiagMfrInfoRprtRqstToken,
dot11WNMDiagMfrInfoRprtIfIndex,
dot11WNMDiagMfrInfoRprtMfrOui,
dot11WNMDiagMfrInfoRprtMfrIdString,
dot11WNMDiagMfrInfoRprtMfrModelString,
dot11WNMDiagMfrInfoRprtMfrSerialNumberString,
dot11WNMDiagMfrInfoRprtMfrFirmwareVersion,
dot11WNMDiagMfrInfoRprtMfrAntennaType,
dot11WNMDiagMfrInfoRprtMfrAntennaGain,
dot11WNMDiagConfigProfRprtIndex,
dot11WNMDiagConfigProfRprtRqstToken,
dot11WNMDiagConfigProfRprtIfIndex,
dot11WNMDiagConfigProfRprtProfileId,

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1      dot11WNMDiagConfigProfRprtSupportedRegClasses,
2      dot11WNMDiagConfigProfRprtTxPowerMode,
3      dot11WNMDiagConfigProfRprtTxPowerLevels,
4      dot11WNMDiagConfigProfRprtCipherSuite,
5      dot11WNMDiagConfigProfRprtAkmSuite,
6      dot11WNMDiagConfigProfRprtEapMethod,
7      dot11WNMDiagConfigProfRprtSSID,
8      dot11WNMDiagConfigProfRprtPowerSaveMode,
9      dot11WNMDiagAssocRprtIndex,
10     dot11WNMDiagAssocRprtRqstToken,
11     dot11WNMDiagAssocRprtIfIndex,
12     dot11WNMDiagAssocRprtBssid,
13     dot11WNMDiagAssocRprtRegulatoryClass,
14     dot11WNMDiagAssocRprtChannelNumber,
15     dot11WNMDiagAssocRprtStatusCode,
16     dot11WNMDiag8021xAuthRprtIndex,
17     dot11WNMDiag8021xAuthRprtRqstToken,
18     dot11WNMDiag8021xAuthRprtIfIndex,
19     dot11WNMDiag8021xAuthRprtBssid,
20     dot11WNMDiag8021xAuthRprtRegulatoryClass,
21     dot11WNMDiag8021xAuthRprtChannelNumber,
22     dot11WNMDiag8021xAuthRprtEapMethod,
23     dot11WNMDiag8021xAuthRprt8021xCredentials,
24     dot11WNMDiag8021xAuthRprtStatusCode,
25     dot11WNMLCIRprtIndex,
26     dot11WNMLCIRprtRqstToken,
27     dot11WNMLCIRprtIfIndex,
28     dot11WNMLCIRprtLocIndParams,
29     dot11WNMLCIRprtLCIChanList,
30     dot11WNMLCIRprtLCISubElementID,
31     dot11WNMLCIRprtLCIStatus,
32     dot11WNMLCIRprtTxPower,
33     dot11WNMLCIRprtAntennaID,
34     dot11WNMLCIRprtAntennaGain,
35     dot11WNMLCIRprtRCPI,
36     dot11WNMLCIRprtRSNI,
37     dot11WNMLCIRprtMotionIndicator,
38     dot11WNMLCIRprtBearing,
39     dot11WNMLCIRprtSpeedUnits,
40     dot11WNMLCIRprtHorizontalSpeed,
41     dot11WNMLCIRprtVerticalSpeed,
42     dot11WNMLCIRprtLCIBcastRate,
43     dot11WNMLCIRprtTODTimestamp,
44     dot11WNMLCIRprtTODTolerance,
45     dot11WNMLCIRprtTODUnits,
46     dot11WNMLCIRprtVendorSpecificRprtContent,
47     dot11WNMBssTransitRprtIndex,
48     dot11WNMBssTransitRprtRqstToken,
49     dot11WNMBssTransitRprtIfIndex,
50     dot11WNMBssTransitRprtStatus,
51     dot11WNMBssTransitRprtTargetBssid,
52     dot11WNMColocInterfRprtIndex,
53     dot11WNMColocInterfRprtRqstToken,
54     dot11WNMColocInterfRprtIfIndex,
55     dot11WNMColocInterfRprtPeriod,
56     dot11WNMColocInterfRprtInterfLevel,
57     dot11WNMColocInterfRprtInterfAccuracy,
58     dot11WNMColocInterfRprtInterfIndex,
59     dot11WNMColocInterfRprtInterfInterval,
60     dot11WNMColocInterfRprtInterfBurstLength,
61     dot11WNMColocInterfRprtInterfStartTime,
62     dot11WNMColocInterfRprtInterfCenterFreq,
63     dot11WNMColocInterfRprtInterfBandwidth }
64
65     STATUS current
66     DESCRIPTION
67         "The SMTWNMReport package is a set of attributes that shall be present if
68         the STA supports the Wireless Network Management service."
69     ::= { dot11Groups 55 }
70
71 -- *****
72 -- * Note to Editor: need to coordinate dot11Groups number assignment
73 -- *****

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