

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >
Title	Proposed text and ASN.1 code to support new parameters in Table 342
Date Submitted	2007-03-09
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Re:	
Abstract	This contribution proposes the text and ASN.1 code in wmanIf2mMib to support new parameters in Table 342.
Purpose	Adoption
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1

1

2. Introduction

2

3 This contribution proposes the text and ASN.1 code in wmanlf2mMib to new parameters in Table
4 342.

2. Proposed changes

5

2.1 wmanlf2mMib Change

6

13.1.4.1 wmanlf2mBsObjects

7

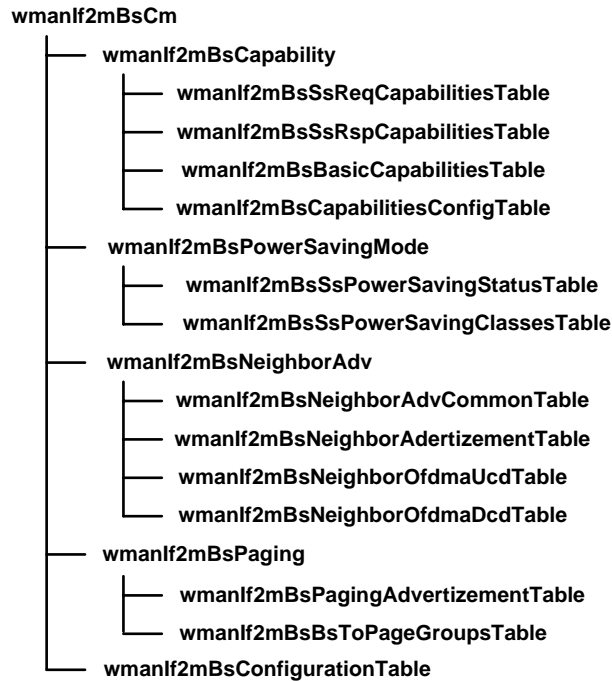
13.1.4.1.1 wmanlf2mBsCm

8

9 [Change Figure 16 as the following:]

10

11



12

13

Figure 16—wmanlf2mBsCm structure

14

15

16 [Add the following text to subclause 13.1.4.1.1:]

17

13.1.4.1.1.5 wmanlf2mBsConfigurationTable

18

19 wmanlf2mBsConfigurationTable contains objects for BS system parameters and constants as
20 defined in subclause 10.1 of IEEE 802.16e-2005 standard.

1 [\[Add the following new subclause:\]](#)

2

3 **13.1.4.2 wmanIf2mSsObjects**

4 **13.1.4.2.1 wmanIf2mSsCm**

5 Figure 18 shows the structure of wmanIf2mSsCm subtree that contains SS managed objects
6 related to Configuration Management.



7

8 **Figure 18—wmanIf2mSsCm structure**

9

10 **13.1.4.2.1.1 wmanIf2mSsConfigurationTable**

11 wmanIf2mSsConfigurationTable contains objects for SS system parameters and constants as
12 defined in subclause 10.1 of IEEE 802.16e-2005 standard.

13 **2.2 ASN.1 Code Changes**

14 **13.2 ASN.1 Definitions of MIB Modules**

15 **13.2.3 wmanIf2Mib**

16 [\[Add the following code to WMAN-IF2-MIB:\]](#)

17

18 WmanIf2PkmVersion ::= TEXTUAL-CONVENTION

19 STATUS current

20 DESCRIPTION

21 "This field indicates a PKM version that SS or BS supports.

22 A bit 0 - 'not supported'

23 1 - 'supported'

24 Both an SS and a BS should negotiate only one PKM version."

25 REFERENCE

26 "Subclause 11.8.4.1 in IEEE Std 802.16e-2005"

27 SYNTAX BITS {pkmVersion1(0),
28 pkmVersion2(1)}

29

30 WmanIf2AuthPolicy ::= TEXTUAL-CONVENTION

31 STATUS current

32 DESCRIPTION

33 "This field indicates authorization policy used by the MS and
34 BS to negotiate and synchronize.

35 A bit 0 - 'not supported'

36 1 - 'supported'"

37 REFERENCE

38 "Subclause 11.8.4.2 in IEEE Std 802.16e-2005"

39 SYNTAX BITS {rsaBasedAuthInitNtwkEntry(0),
40 eapBasedAuthInitNtwkEntry(1),
41 authenEapBasedAuthInitNtwkEntry(2),
42 reserved0(3),
43 rsaBasedAuthReentry(4),
44 eapBasedAuthReentry(5),

```

1          authenEapBasedAuthReentry(6),
2          reserved1(7) }
3
4 WmanIf2MacMode ::= TEXTUAL-CONVENTION
5     STATUS      current
6     DESCRIPTION
7         "This field indicates a MAC (Message Authentication Code)
8         mode that MS supports. Both MS and BS shall determine and
9         use a MAC mode.
10        A bit 0 - 'not supported'
11        1 - 'supported'"
12     REFERENCE
13         "Subclause 11.8.4.3 in IEEE Std 802.16e-2005"
14     SYNTAX      BITS {hmac(0),
15                   cmac(1),
16                   sixtyfourBitShortHmac(2),
17                   eightyBitShortHmac(3),
18                   nintysixBitShortHmac(4) }
19
20 WmanIf2ExtCapability ::= TEXTUAL-CONVENTION
21     STATUS      current
22     DESCRIPTION
23         "This field indicates the extended subheader format
24         support.
25         A bit 0 - 'not supported'
26         1 - 'supported'"
27     REFERENCE
28         "Subclause 11.8.6 in IEEE Std 802.16e-2005"
29     SYNTAX      BITS {extSubheader(0) }
30
31 --
32 -- wmanIf2BsConfigurationTable contains global parameters common in BS
33 --
34 wmanIf2BsConfigurationTable OBJECT-TYPE
35     SYNTAX      SEQUENCE OF WmanIf2BsConfigurationEntry
36     MAX-ACCESS  not-accessible
37     STATUS      current
38     DESCRIPTION
39         "This table provides one row for each BS sector that
40         contains the BS system parameters as defined in Subclause
41         10.1 of [3]. The objects in this table define the default
42         behaviour of the BS for 2nd Management connection
43         scheduling and SFID allocation as well as configuration
44         parameters of the CPS scheduler and AAS system."
45     REFERENCE
46         "Subclause 10.1, Table 342 in IEEE Std 802.16e-2005"
47     ::= { wmanIf2BsCps 2 }
48
49 wmanIf2BsConfigurationEntry OBJECT-TYPE
50     SYNTAX      WmanIf2BsConfigurationEntry
51     MAX-ACCESS  not-accessible
52     STATUS      current
53     DESCRIPTION
54         "This table is indexed by ifIndex with an ifType of
55         ieee80216WMAN."
56     INDEX { ifIndex }
57     ::= { wmanIf2BsConfigurationTable 1 }
58
59 WmanIf2BsConfigurationEntry ::= SEQUENCE {
60     wmanIf2BsDcdInterval      INTEGER,
61     wmanIf2BsUcdInterval      INTEGER,
62     wmanIf2BsUcdTransition    INTEGER,
63     wmanIf2BsDcdTransition    INTEGER,
64     wmanIf2BsInitialRangingInterval  INTEGER,

```

```

1      wmanIf2BsSsULMapProcTime          Unsigned32,
2      wmanIf2BsSsRangRespProcTime      Unsigned32,
3      wmanIf2BsT5Timeout                INTEGER,
4      wmanIf2BsT9Timeout                INTEGER,
5      wmanIf2BsT13Timeout               INTEGER,
6      wmanIf2BsT15Timeout               INTEGER,
7      wmanIf2BsT17Timeout               INTEGER,
8      wmanIf2BsT27IdleTimer             Unsigned32,
9      wmanIf2BsT27ActiveTimer           Unsigned32,
10     wmanIf2Bs2ndMgmtDlQoSProfileIndex  INTEGER,
11     wmanIf2Bs2ndMgmtUlQoSProfileIndex  INTEGER,
12     wmanIf2BsAutoSfidEnabled           INTEGER,
13     wmanIf2BsAutoSfidRangeMin          Unsigned32,
14     wmanIf2BsAutoSfidRangeMax          Unsigned32,
15     wmanIf2BsAasChanFbckReqFreq        INTEGER,
16     wmanIf2BsAasBeamSelectFreq         INTEGER,
17     wmanIf2BsAasChanFbckReqResolution  INTEGER,
18     wmanIf2BsAasBeamReqResolution      INTEGER,
19     wmanIf2BsAasNumOptDiversityZones   INTEGER,
20     wmanIf2BsResetSector                INTEGER,
21     wmanIf2BsSaChallengeTimer          INTEGER,
22     wmanIf2BsSaChallengeMaxResends     INTEGER,
23     wmanIf2BsSaTekTimer                INTEGER,
24     wmanIf2BsSaTekReqMaxResends        INTEGER,
25     wmanIf2Bs2ndEapTimeout              INTEGER,
26     wmanIf2BsEapCompleteResends        INTEGER}
27
28     wmanIf2BsSaChallengeTimer OBJECT-TYPE
29         SYNTAX      INTEGER (500 .. 2000)
30         UNITS       "milliseconds"
31         MAX-ACCESS  read-write
32         STATUS      current
33         DESCRIPTION
34             "Time prior to re-send of SATEK-Challenge."
35         DEFVAL      { 1000 }
36         ::= { wmanIf2BsConfigurationEntry 27 }
37
38     wmanIf2BsSaChallengeMaxResends OBJECT-TYPE
39         SYNTAX      INTEGER (1 .. 3)
40         MAX-ACCESS  read-write
41         STATUS      current
42         DESCRIPTION
43             "Maximum number of transmissions of SA-TEK-Challenge."
44         DEFVAL      { 3 }
45         ::= { wmanIf2BsConfigurationEntry 28 }
46
47     wmanIf2BsSaTekTimer OBJECT-TYPE
48         SYNTAX      INTEGER (100 .. 1000)
49         UNITS       "milliseconds"
50         MAX-ACCESS  read-write
51         STATUS      current
52         DESCRIPTION
53             "Time prior to re-send of SATEK-Request."
54         DEFVAL      { 300 }
55         ::= { wmanIf2BsConfigurationEntry 29 }
56
57     wmanIf2BsSaTekReqMaxResends OBJECT-TYPE
58         SYNTAX      INTEGER (1 .. 3)
59         MAX-ACCESS  read-write
60         STATUS      current
61         DESCRIPTION
62             "Maximum number of transmissions of SA-TEK-Request."
63         DEFVAL      { 3 }
64         ::= { wmanIf2BsConfigurationEntry 30 }

```

```

1
2 wmanIf2Bs2ndEapTimeout OBJECT-TYPE
3     SYNTAX      INTEGER (300 .. 1000)
4     UNITS       "milliseconds"
5     MAX-ACCESS  read-write
6     STATUS      current
7     DESCRIPTION
8         "Time, in seconds, to wait for PKMv2_EAP_Start or
9         PKMv2_Authenticated_EAP_Start after the success of the
10        first EAP in double EAP mode."
11     DEFVAL     { 1000 }
12     ::= { wmanIf2BsConfigurationEntry 31 }
13
14 wmanIf2BsEapCompleteResends OBJECT-TYPE
15     SYNTAX      INTEGER (1 .. 3)
16     MAX-ACCESS  read-write
17     STATUS      current
18     DESCRIPTION
19         "Total number of sending PKMv2_EAP_Complete message in
20         double EAP mode."
21     DEFVAL     { 3 }
22     ::= { wmanIf2BsConfigurationEntry 32 }
23
24 --
25 -- wmanIf2SsConfigurationTable contains global parameters for SS
26 --
27 wmanIf2SsConfigurationTable OBJECT-TYPE
28     SYNTAX      SEQUENCE OF WmanIf2SsConfigurationEntry
29     MAX-ACCESS  not-accessible
30     STATUS      current
31     DESCRIPTION
32         "This table contains one row for the SS system
33         parameters."
34     REFERENCE
35         "Subclause 10.1, Table 342 in IEEE Std 802.16-2004"
36     ::= { wmanIf2SsCps 1 }
37
38 wmanIf2SsConfigurationEntry OBJECT-TYPE
39     SYNTAX      WmanIf2SsConfigurationEntry
40     MAX-ACCESS  not-accessible
41     STATUS      current
42     DESCRIPTION
43         "This table is indexed by ifIndex."
44     INDEX { ifIndex }
45     ::= { wmanIf2SsConfigurationTable 1 }
46
47 WmanIf2SsConfigurationEntry ::= SEQUENCE {
48     wmanIf2SsLostDLMapInterval      INTEGER,
49     wmanIf2SsLostULMapInterval      INTEGER,
50     wmanIf2SsContentionRangRetries  INTEGER,
51     wmanIf2SsRequestRetries         INTEGER,
52     wmanIf2SsRegRequestRetries      INTEGER,
53     wmanIf2SsTftpBackoffStart       INTEGER,
54     wmanIf2SsTftpBackoffEnd         INTEGER,
55     wmanIf2SsTftpRequestRetries     INTEGER,
56     wmanIf2SsTftpDownloadRetries   INTEGER,
57     wmanIf2SsTftpWait                INTEGER,
58     wmanIf2SsToDRetries              INTEGER,
59     wmanIf2SsToDRetryPeriod         INTEGER,
60     wmanIf2SsT1Timeout               INTEGER,
61     wmanIf2SsT2Timeout               INTEGER,
62     wmanIf2SsT3Timeout               INTEGER,
63     wmanIf2SsT4Timeout               INTEGER,
64     wmanIf2SsT6Timeout               INTEGER,

```

```

1      wmanIf2SsT12Timeout      INTEGER,
2      wmanIf2SsT14Timeout      INTEGER,
3      wmanIf2SsT16Timeout      INTEGER,
4      wmanIf2SsT18Timeout      INTEGER,
5      wmanIf2SsT19Timeout      INTEGER,
6      wmanIf2SsT20Timeout      INTEGER,
7      wmanIf2SsT21Timeout      INTEGER,
8      wmanIf2SsSBCRequestRetries      INTEGER,
9      wmanIf2SsTftpCpltRetries      INTEGER,
10     wmanIf2SsT26Timeout      INTEGER,
11     wmanIf2SsDLManagProcTime      INTEGER,
12     wmanIf2SsPowerControlIeProcTime      INTEGER,
13     wmanIf2SsT28Timeout      INTEGER,
14     wmanIf2SsT29Timeout      INTEGER,
15     wmanIf2SsT30Timeout      INTEGER,
16     wmanIf2SsSaChallengeTimer      INTEGER,
17     wmanIf2SsSaChallengeMaxResends      INTEGER,
18     wmanIf2SsSaTekTimer      INTEGER,
19     wmanIf2SsSaTekReqMaxResends      INTEGER}
20
21     wmanIf2SsPowerControlIeProcTime OBJECT-TYPE
22         SYNTAX      INTEGER (0 .. 2500)
23         UNITS      "micro seconds"
24         MAX-ACCESS      read-write
25         STATUS      current
26         DESCRIPTION
27             "Time allowed for an SS following receipt of a UL-MAP
28              including a power control IE before it is expected to
29              apply the corrections instructed by the BS."
30         ::= { wmanIf2SsConfigurationEntry 29 }
31
32     wmanIf2SsT28Timeout OBJECT-TYPE
33         SYNTAX      INTEGER (200 .. 60000)
34         UNITS      "milliseconds"
35         MAX-ACCESS      read-write
36         STATUS      current
37         DESCRIPTION
38             "DBPC-REQ re-try timer for requesting less robust burst
39              profile after rejection by the BS"
40         DEFVAL      { 1000 }
41         ::= { wmanIf2SsConfigurationEntry 30 }
42
43     wmanIf2SsT29Timeout OBJECT-TYPE
44         SYNTAX      INTEGER (200 .. 30000)
45         UNITS      "milliseconds"
46         MAX-ACCESS      read-write
47         STATUS      current
48         DESCRIPTION
49             "RNG-REQ/DBPC-REQ re-try timer for requesting more robust
50              burst profile after rejecting by the BS"
51         DEFVAL      { 1000 }
52         ::= { wmanIf2SsConfigurationEntry 31 }
53
54     wmanIf2SsT30Timeout OBJECT-TYPE
55         SYNTAX      INTEGER (200 .. 200)
56         UNITS      "milliseconds"
57         MAX-ACCESS      read-write
58         STATUS      current
59         DESCRIPTION
60             "DBPC-RSP reception timeout following the transmission of
61              a DBPC-REQ."
62         DEFVAL      { 200 }
63         ::= { wmanIf2SsConfigurationEntry 32 }
64

```



```

1  wmanIf2SsSaChallengeTimer OBJECT-TYPE
2      SYNTAX      INTEGER (500 .. 2000)
3      UNITS       "milliseconds"
4      MAX-ACCESS  read-write
5      STATUS      current
6      DESCRIPTION
7          "Time prior to re-send of SATEK-Challenge."
8      DEFVAL      { 1000 }
9      ::= { wmanIf2SsConfigurationEntry 33 }
10
11 wmanIf2SsSaChallengeMaxResends OBJECT-TYPE
12     SYNTAX      INTEGER (1 .. 3)
13     MAX-ACCESS  read-write
14     STATUS      current
15     DESCRIPTION
16         "Maximum number of transmissions of SA-TEK-Challenge."
17     DEFVAL      { 3 }
18     ::= { wmanIf2SsConfigurationEntry 34 }
19
20 wmanIf2SsSaTekTimer OBJECT-TYPE
21     SYNTAX      INTEGER (100 .. 1000)
22     UNITS       "milliseconds"
23     MAX-ACCESS  read-write
24     STATUS      current
25     DESCRIPTION
26         "Time prior to re-send of SATEK-Request."
27     DEFVAL      { 300 }
28     ::= { wmanIf2SsConfigurationEntry 35 }
29
30 wmanIf2SsSaTekReqMaxResends OBJECT-TYPE
31     SYNTAX      INTEGER (1 .. 3)
32     MAX-ACCESS  read-write
33     STATUS      current
34     DESCRIPTION
35         "Maximum number of transmissions of SA-TEK-Request."
36     DEFVAL      { 3 }
37     ::= { wmanIf2SsConfigurationEntry 36 }
38
39

```

40 13.2.4 wmanIf2mMib

41 [\[Add the following code to WMAN-IF2m-MIB:\]](#)

```

42
43
44 --
45 -- wmanIf2mBsConfigurationTable contains global parameters for BS
46 --
47 wmanIf2mBsConfigurationTable OBJECT-TYPE
48     SYNTAX      SEQUENCE OF WmanIf2mBsConfigurationEntry
49     MAX-ACCESS  not-accessible
50     STATUS      current
51     DESCRIPTION
52         "This table contains one row for the BS system parameters."
53     REFERENCE
54         "Subclause 10.1, Table 342 in IEEE Std 802.16e-2005"
55     ::= { wmanIf2mBsCm 5 }
56
57 wmanIf2mBsConfigurationEntry OBJECT-TYPE
58     SYNTAX      WmanIf2mBsConfigurationEntry
59     MAX-ACCESS  not-accessible
60     STATUS      current

```

```

1      DESCRIPTION
2          "This table is indexed by ifIndex."
3      INDEX { ifIndex }
4      ::= { wmanIf2mBsConfigurationTable 1 }
5
6      WmanIf2mBsConfigurationEntry ::= SEQUENCE {
7          wmanIf2mBsMobNbrAdvInterval          INTEGER,
8          wmanIf2mBsAscAgingTimer             INTEGER,
9          wmanIf2mBsPagingRetryCount          INTEGER,
10         wmanIf2mBsModeSelectFeedbackProcTime INTEGER,
11         wmanIf2mBsIdleModeSystemTimer       Unsigned32,
12         wmanIf2mBsMgmtResourceHoldingTimer  INTEGER,
13         wmanIf2mBsDregCommandRetryCount     INTEGER,
14         wmanIf2mBsT46Timer                  INTEGER,
15         wmanIf2mBsT47Timer                  INTEGER,
16         wmanIf2mBsPagingInterval            INTEGER}
17
18     wmanIf2mBsMobNbrAdvInterval OBJECT-TYPE
19         SYNTAX      INTEGER (1 .. 30)
20         UNITS       "seconds"
21         MAX-ACCESS  read-write
22         STATUS      current
23         DESCRIPTION
24             "Nominal time between transmission of MOB-NBR-ADV messages"
25         ::= { wmanIf2mBsConfigurationEntry 1 }
26
27     wmanIf2mBsAscAgingTimer OBJECT-TYPE
28         SYNTAX      INTEGER (100 .. 10000)
29         UNITS       "milliseconds"
30         MAX-ACCESS  read-write
31         STATUS      current
32         DESCRIPTION
33             "Nominal time for aging of MS associations"
34         ::= { wmanIf2mBsConfigurationEntry 2 }
35
36     wmanIf2mBsPagingRetryCount OBJECT-TYPE
37         SYNTAX      INTEGER (1 .. 16)
38         MAX-ACCESS  read-write
39         STATUS      current
40         DESCRIPTION
41             "Number of retries on paging transmission. If the BS does
42             not receive RNG-REQ from the MS until this value decreases
43             to zero, it determines that the MS is unavailable."
44         DEFVAL     { 3 }
45         ::= { wmanIf2mBsConfigurationEntry 3 }
46
47     wmanIf2mBsModeSelectFeedbackProcTime OBJECT-TYPE
48         SYNTAX      INTEGER (1 .. 65535)
49         UNITS       "microseconds"
50         MAX-ACCESS  read-write
51         STATUS      current
52         DESCRIPTION
53             "The time allowed between the end of the burst carrying the
54             Mode Selection Feedback subheader and the start of the UL
55             subframe carrying the Mode Selection Feedback response.
56             Minimum value = 1 frame duration for TDD
57             1/2 Frame duration for FDD"
58         ::= { wmanIf2mBsConfigurationEntry 4 }
59
60     wmanIf2mBsIdleModeSystemTimer OBJECT-TYPE
61         SYNTAX      Unsigned32 (128 .. 65536)
62         UNITS       "seconds"
63         MAX-ACCESS  read-write
64         STATUS      current

```

```

1      DESCRIPTION
2          "For BS acting as Paging Controller, timed interval to
3              receive notification of MS Idle Mode Location Update. Set
4              timer to MS Idle Mode Timeout. Timer recycles on
5              successful Idle Mode Location Update."
6      DEFVAL      { 4096 }
7      ::= { wmanIf2mBsConfigurationEntry 5 }
8
9      wmanIf2mBsMgmtResourceHoldingTimer OBJECT-TYPE
10     SYNTAX      INTEGER (1 .. 1000)
11     UNITS       "milliseconds"
12     MAX-ACCESS  read-write
13     STATUS      current
14     DESCRIPTION
15         "Time the BS maintain connection information with the MS
16         after the BS send DREG-CMD to the MS."
17     DEFVAL      { 500 }
18     ::= { wmanIf2mBsConfigurationEntry 6 }
19
20     wmanIf2mBsDregCommandRetryCount OBJECT-TYPE
21     SYNTAX      INTEGER (3 .. 16)
22     MAX-ACCESS  read-write
23     STATUS      current
24     DESCRIPTION
25         "Number of retries on DREG Command Message."
26     DEFVAL      { 3 }
27     ::= { wmanIf2mBsConfigurationEntry 7 }
28
29     wmanIf2mBsT46Timer OBJECT-TYPE
30     SYNTAX      INTEGER (1 .. 65535)
31     UNITS       "milliseconds"
32     MAX-ACCESS  read-write
33     STATUS      current
34     DESCRIPTION
35         "Time the BS waits for DREG-REQ in case of unsolicited Idle
36         Mode initiation from BS."
37     ::= { wmanIf2mBsConfigurationEntry 8 }
38
39     wmanIf2mBsT47Timer OBJECT-TYPE
40     SYNTAX      INTEGER (8 .. 1024)
41     UNITS       "frames"
42     MAX-ACCESS  read-write
43     STATUS      current
44     DESCRIPTION
45         "PMC_RSP Timer: BS shall send the PMC_RSP before T47 + 1
46         frames after BS receives PMC_REQ (Confirmation = 0)
47         correctly."
48     DEFVAL      { 64 }
49     ::= { wmanIf2mBsConfigurationEntry 9 }
50
51     wmanIf2mBsPagingInterval OBJECT-TYPE
52     SYNTAX      INTEGER (8 .. 1024)
53     UNITS       "frames"
54     MAX-ACCESS  read-write
55     STATUS      current
56     DESCRIPTION
57         "Time duration of Paging Interval of the BS."
58     DEFVAL      { 64 }
59     ::= { wmanIf2mBsConfigurationEntry 10 }
60
61     --
62     -- wmanIf2mSsConfigurationTable contains global parameters for SS
63     --
64     wmanIf2mSsConfigurationTable OBJECT-TYPE

```

```

1      SYNTAX      SEQUENCE OF WmanIf2mSsConfigurationEntry
2      MAX-ACCESS  not-accessible
3      STATUS      current
4      DESCRIPTION
5          "This table contains one row for the SS system parameters."
6      REFERENCE
7          "Subclause 10.1, Table 342 in IEEE Std 802.16e-2005"
8      ::= { wmanIf2mSsCm 1 }
9
10     wmanIf2mSsConfigurationEntry OBJECT-TYPE
11         SYNTAX      WmanIf2mSsConfigurationEntry
12         MAX-ACCESS  not-accessible
13         STATUS      current
14         DESCRIPTION
15             "This table is indexed by ifIndex."
16         INDEX { ifIndex }
17         ::= { wmanIf2mSsConfigurationTable 1 }
18
19     WmanIf2mSsConfigurationEntry ::= SEQUENCE {
20         wmanIf2mSsMinSleepInterval      INTEGER,
21         wmanIf2mSsMaxSleepInterval      INTEGER,
22         wmanIf2mSsListeningInterval     INTEGER,
23         wmanIf2mSsNrbBsIndexValidityTime INTEGER,
24         wmanIf2mSsAscAgingTimer         INTEGER,
25         wmanIf2mSsServingBsidAgingTimer INTEGER,
26         wmanIf2mSsT42Timer              INTEGER,
27         wmanIf2mSsFastTrackingRspProcTime INTEGER,
28         wmanIf2mSsModeSelectFeedbackProcTime INTEGER,
29         wmanIf2mSsIdleModeTimer         Unsigned32,
30         wmanIf2mSsT43Timer              INTEGER,
31         wmanIf2mSsT44Timer              INTEGER,
32         wmanIf2mSsT45Timer              INTEGER,
33         wmanIf2mSsDregReqRetryCount     INTEGER,
34         wmanIf2mSsShoProcOptimizeMsTimerRetry INTEGER,
35         wmanIf2mSsPagingInterval        INTEGER,
36         wmanIf2mSsMaxDirScanTime        INTEGER}
37
38     wmanIf2mSsMinSleepInterval OBJECT-TYPE
39         SYNTAX      INTEGER (2 .. 1024)
40         UNITS       "frames"
41         MAX-ACCESS  read-write
42         STATUS      current
43         DESCRIPTION
44             "Minimum sleeping time allowed to MS."
45         ::= { wmanIf2mSsConfigurationEntry 1 }
46
47     wmanIf2mSsMaxSleepInterval OBJECT-TYPE
48         SYNTAX      INTEGER (2 .. 1024)
49         UNITS       "frames"
50         MAX-ACCESS  read-write
51         STATUS      current
52         DESCRIPTION
53             "Maximum sleeping time allowed to MS."
54         ::= { wmanIf2mSsConfigurationEntry 2 }
55
56     wmanIf2mSsListeningInterval OBJECT-TYPE
57         SYNTAX      INTEGER (1 .. 64)
58         UNITS       "frames"
59         MAX-ACCESS  read-write
60         STATUS      current
61         DESCRIPTION
62             "The time duration during which the MS, after waking up and
63             synchronizing with the DL transmissions, can demodulate
64             downlink transmissions and decide whether to stay awake or

```

```

1         go back to sleep."
2         ::= { wmanIf2mSsConfigurationEntry 3 }
3
4 wmanIf2mSsNrbBsIndexValidityTime OBJECT-TYPE
5     SYNTAX      INTEGER (1 .. 5)
6     UNITS       "seconds"
7     MAX-ACCESS  read-write
8     STATUS      current
9     DESCRIPTION
10        "Time duration during which the MS can use the neighbor BS
11         list in MOB_NBR-ADV message for the compression of neighbor
12         BSIDs."
13        ::= { wmanIf2mSsConfigurationEntry 4 }
14
15 wmanIf2mSsAscAgingTimer OBJECT-TYPE
16     SYNTAX      INTEGER (100 .. 10000)
17     UNITS       "milliseconds"
18     MAX-ACCESS  read-write
19     STATUS      current
20     DESCRIPTION
21        "Nominal time for aging of MS associations"
22        ::= { wmanIf2mSsConfigurationEntry 5 }
23
24 wmanIf2mSsServingBsidAgingTimer OBJECT-TYPE
25     SYNTAX      INTEGER (0 .. 5000)
26     UNITS       "milliseconds"
27     MAX-ACCESS  read-write
28     STATUS      current
29     DESCRIPTION
30        "Nominal time for aging of serving BS association. Timer
31         recycles on successful serving BS DL-MAP read."
32        ::= { wmanIf2mSsConfigurationEntry 6 }
33
34 wmanIf2mSsT42Timer OBJECT-TYPE
35     SYNTAX      INTEGER (3..65535)
36     MAX-ACCESS  read-write
37     STATUS      current
38     DESCRIPTION
39        "MOB_HO-IND timeout when sent with HO_IND_type = 0b10."
40        ::= { wmanIf2mSsConfigurationEntry 7 }
41
42 wmanIf2mSsFastTrackingRspProcTime OBJECT-TYPE
43     SYNTAX      INTEGER (1..65535)
44     UNITS       "milliseconds"
45     MAX-ACCESS  read-write
46     STATUS      current
47     DESCRIPTION
48        "Time allowed for an MS following receipt of a UL-MAP Fast
49         tracking indication response before it is expected to apply
50         the corrections instructed by the BS.
51         Default value = One DL subframe duration"
52        ::= { wmanIf2mSsConfigurationEntry 8 }
53
54 wmanIf2mSsModeSelectFeedbackProcTime OBJECT-TYPE
55     SYNTAX      INTEGER (1 .. 65535)
56     UNITS       "microseconds"
57     MAX-ACCESS  read-write
58     STATUS      current
59     DESCRIPTION
60        "The time allowed between the end of the burst carrying the
61         Mode Selection Feedback subheader and the start of the UL
62         subframe carrying the Mode Selection Feedback response.
63         Minimum value = 1 frame duration for TDD
64                     1/2 Frame duration for FDD"

```

```

1         ::= { wmanIf2mSsConfigurationEntry 9 }
2
3     wmanIf2mSsIdleModeTimer OBJECT-TYPE
4         SYNTAX      Unsigned32 (128 .. 65536)
5         UNITS       "seconds"
6         MAX-ACCESS  read-write
7         STATUS      current
8         DESCRIPTION
9             "MS timed interval to conduct Location Update. Set timer to
10            MS Idle Mode Timeout capabilities setting. Timer recycles
11            on successful Idle Mode Location Update."
12         DEFVAL     { 4096 }
13         ::= { wmanIf2mSsConfigurationEntry 10 }
14
15     wmanIf2mSsT43Timer OBJECT-TYPE
16         SYNTAX      INTEGER (1 .. 65535)
17         UNITS       "milliseconds"
18         MAX-ACCESS  read-write
19         STATUS      current
20         DESCRIPTION
21             "Time the MS waits for MOB_SLP-RSP."
22         ::= { wmanIf2mSsConfigurationEntry 11 }
23
24     wmanIf2mSsT44Timer OBJECT-TYPE
25         SYNTAX      INTEGER (1 .. 65535)
26         UNITS       "milliseconds"
27         MAX-ACCESS  read-write
28         STATUS      current
29         DESCRIPTION
30             "Time the MS waits for MOB_SCN-RSP."
31         ::= { wmanIf2mSsConfigurationEntry 12 }
32
33     wmanIf2mSsT45Timer OBJECT-TYPE
34         SYNTAX      INTEGER (1 .. 500)
35         UNITS       "milliseconds"
36         MAX-ACCESS  read-write
37         STATUS      current
38         DESCRIPTION
39             "Time the MS waits for DREGCMD."
40         DEFVAL     { 250 }
41         ::= { wmanIf2mSsConfigurationEntry 13 }
42
43     wmanIf2mSsDregReqRetryCount OBJECT-TYPE
44         SYNTAX      INTEGER (3 .. 16)
45         MAX-ACCESS  read-write
46         STATUS      current
47         DESCRIPTION
48             "Number of retries on DREG Request Message."
49         DEFVAL     { 3 }
50         ::= { wmanIf2mSsConfigurationEntry 14 }
51
52     wmanIf2mSsHoProcOptimizeMsTimerRetry OBJECT-TYPE
53         SYNTAX      INTEGER (3 .. 100)
54         MAX-ACCESS  read-write
55         STATUS      current
56         DESCRIPTION
57             "Number of SBC-REQ and/or REG-REQ retries while waiting
58            for unsolicited SBC-RSP and/or REG-RSP as part of MS
59            network re-entry and as indicated by HO Process
60            Optimization message element of RNGRSP."
61         ::= { wmanIf2mSsConfigurationEntry 15 }
62
63     wmanIf2mSsPagingInterval OBJECT-TYPE
64         SYNTAX      INTEGER (8 .. 1024)

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1          UNITS          "frames"
2          MAX-ACCESS    read-write
3          STATUS        current
4          DESCRIPTION
5             "Time duration of Paging Interval of the BS."
6          DEFVAL        { 64 }
7          ::= { wmanIf2mSsConfigurationEntry 16 }
8
9  wmanIf2mSsMaxDirScanTime OBJECT-TYPE
10         SYNTAX        INTEGER (1 .. 65535)
11         UNITS          "seconds"
12         MAX-ACCESS    read-write
13         STATUS        current
14         DESCRIPTION
15            "Maximum scanning time of neighbor BSs by MS before
16             reporting any results."
17         ::= { wmanIf2mSsConfigurationEntry 17 }
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