
Project	IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>	
Title	Adding new REG/SBC capabilities to wman2IfMib	
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Re:

Abstract	This contribution proposes the changes being included to wmanIf2Mib in order to support new capabilities that have been introduced in REG and SBC messages in IEEE 802.16e 2005.
Purpose	Adoption
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1

1

2 1. Introduction

3 This contribution proposes the changes being included to wmanIf2Mib in order to support new
 4 capabilities that have been introduced in REG and SBC messages in IEEE 802.16e 2005.

5 2. wmanIfMib change Proposal

6 2.1 wman2IfBsCps Change

7

8 15.2.1.1.2 wman2IfBsCps

9 *[Replace Fig 20 with the following:]*



31 **Figure 20—wman2IfBsCps Structure**

33 15.2.1.1.2.4 wman2IfBsCps

34 *[Insert the following new subclauses:]*

35

36 15.2.1.1.2.4.5 wmanIf2eBsSsReqCapabilitiesTable

37 wmanIf2eBsSsReqCapabilitiesTable is the AUGMENTS to wmanIf2BsRegisteredSsTable to
 38 contain new basic capability information of SS that have been added to IEEE 802.16e 2005.

39

40

41 15.2.1.1.2.4.6 wmanIf2eBsSsRspCapabilitiesTable

1 wmanIf2eBsSsRspCapabilitiesTable is the AUGMENTS to wmanIf2BsRegisteredSsTable to
 2 contain new basic capability information of SS that have been added to IEEE 802.16e 2005.
 3

4 **15.2.1.1.2.4.7 wmanIf2eBsBasicCapabilitiesTable**

5 wmanIf2eBsBasicCapabilitiesTable is the AUGMENTS to wmanIf2BsRegisteredSsTable to
 6 contain new basic capability information of SS that have been added to IEEE 802.16e 2005.
 7

8 **15.2.1.1.2.4.8 wmanIf2eBsCapabilitiesConfigTable**

9 wmanIf2eBsCapabilitiesConfigTable is the AUGMENTS to wmanIf2BsRegisteredSsTable to
 10 contain new basic capability information of SS that have been added to IEEE 802.16e 2005.
 11

12 **15.2.2 ASN.1 Definitions of 802.16 MIB for SNMP**

13 **2.2 Wman2IfNumOfUplinkCid Change**

14
 15 [Insert the following ASN.1 notation:]
 16
 17 Wman2IfNumOfUplinkCid ::= TEXTUAL-CONVENTION
 18 STATUS current
 19 DESCRIPTION
 20 "The object of this type shows the number of Uplink CIDs
 21 the SS can support."
 22 REFERENCE
 23 "Subclause 11.7.4 in IEEE Std 802.16-2004"
 24 SYNTAX INTEGER (2..65535)
 25

26 **2.3 Wman2IfOfdmFftSizes Change**

27 [Change Wman2IfOfdmFftSizes from:]
 28
 29 Wman2IfOfdmFftSizes ::= TEXTUAL-CONVENTION
 30 STATUS current
 31 DESCRIPTION
 32 "This field indicates the FFT sizes supported by the SS/MS.
 33 It is used for describing OFDM or OFDMA capabilities,
 34 depending on context. For each FFT size, a bit value of 0
 35 indicates 'not supported' while 1 indicates 'supported'."
 36 REFERENCE
 37 "Subclause 11.8.3.7.1 in IEEE 802.16e-2005"
 38 SYNTAX BITS {fft256(0),
 39 fft2048(1),
 40 fft128(2),
 41 fft512(3),
 42 fft1024(4)}
 43

44 [To:]

45
 46 WmanIf2OfdmFftSizes ::= TEXTUAL-CONVENTION
 47 STATUS current
 48 DESCRIPTION
 49 "This field indicates the FFT sizes supported by the SS.
 50 For each FFT size, a bit value of 0 indicates 'not
 51 supported' while 1 indicates 'supported'."
 52 REFERENCE

```

1           "Subclause 11.8.3.6.1 in IEEE 802.16-2004"
2           SYNTAX      BITS {fft256(0),
3                           fft2048(1)}
4

```

5 2.4 Wman2IfOfdmSsDeModType Change

6 [Changes from:]

```

7
8 Wman2IfOfdmSsDeModType ::= TEXTUAL-CONVENTION
9   STATUS      current
10  DESCRIPTION
11    "This field indicates the different demodulator options
12      supported by a WirelessMAN-OFDM PHY SS for downlink. This
13      field is not used for other PHY specifications. A bit
14      value of 0 indicates 'not supported' while 1 indicates
15      'supported'."
16  REFERENCE
17    "Subclause 11.8.3.6.2 in IEEE Std 802.16-2004"
18  SYNTAX      BITS {qam64(0),
19                  btc(1),
20                  ctc(2),
21                  stc(3),
22                  aac(4)}
23
24 Wman2IfOfdmSsModType ::= TEXTUAL-CONVENTION
25   STATUS      current
26  DESCRIPTION
27    "This field indicates the different modulator options
28      supported by a WirelessMAN-OFDM PHY SS for uplink. This
29      field is not used for other PHY specifications. A bit
30      value of 0 indicates 'not supported' while 1 indicates
31      'supported'."
32  REFERENCE
33    "Subclause 11.8.3.6.3 in IEEE Std 802.16-2004"
34  SYNTAX      BITS {qam64(0),
35                  btc(1),
36                  ctc(2),
37                  subchannellization(3),
38                  focusedCtBwReq(4)}
39

```

40 [To:]

```

41
42 WmanIf2OfdmSsDeModType ::= TEXTUAL-CONVENTION
43   STATUS      current
44  DESCRIPTION
45    "This field indicates the different demodulator options
46      supported by a WirelessMAN-OFDM PHY SS for downlink. This
47      field is not used for other PHY specifications. A bit
48      value of 0 indicates 'not supported' while 1 indicates
49      'supported'."
50  REFERENCE
51    "Subclause 11.8.3.6.2 in IEEE Std 802.16e-2005"
52  SYNTAX      BITS {qam64(0),
53                  btc(1),
54                  ctc(2),
55                  stc(3),
56                  aas(4),
57                  subchannelization(5)}
58
59 WmanIf2OfdmSsModType ::= TEXTUAL-CONVENTION
60   STATUS      current

```

```

1      DESCRIPTION
2          "This field indicates the different modulator options
3              supported by a WirelessMAN-OFDM PHY SS for uplink. This
4              field is not used for other PHY specifications. A bit
5              value of 0 indicates 'not supported' while 1 indicates
6              'supported'."
7      REFERENCE
8          "Subclause 11.8.3.6.3 in IEEE Std 802.16e-2005"
9      SYNTAX      BITS {qam64(0),
10                  btc(1),
11                  ctc(2),
12                  subchanellization(3),
13                  focusedCtBwReq(4),
14                  ulCyclicDelay(5)}
15

```

16 2.5 WmanIf2eOfdmPrivMap Change

```

17     [Insert the following ASN.1 notation:]
18
19     WmanIf2eOfdmPrivMap ::= TEXTUAL-CONVENTION
20         STATUS    current
21         DESCRIPTION
22             "This field indicates if the private map parameters
23                 is supported. A bit value of 0 indicates
24                 'not supported' while 1 indicates 'supported'."
25         REFERENCE
26             "Subclause 11.8.3.6.6 in IEEE Std 802.16e-2005"
27         SYNTAX      BITS {regularMap(0),
28                             compressedMap(1)}
29
30     WmanIf2eOfdmUlPower ::= TEXTUAL-CONVENTION
31         STATUS    current
32         DESCRIPTION
33             "This field indicates the uplink power control options
34                 supported by a WirelessMAN-OFDM PHY SS for uplink
35                 transmission. A bit value of 0 indicates
36                 'not supported' while 1 indicates 'supported'."
37         REFERENCE
38             "Subclause 11.8.3.7.10 in IEEE Std 802.16e-2005"
39         SYNTAX      BITS {ulOpenLoopPwrCntl(0),
40                             ulAasPreamblePwrCntl(1)}
41
42     WmanIf2OfdmaFftSizes ::= TEXTUAL-CONVENTION
43         STATUS    current
44         DESCRIPTION
45             "This field indicates the FFT sizes supported by the SS/MS.
46                 For each FFT size, a bit value of 0 indicates 'not
47                 supported' while 1 indicates 'supported'."
48         REFERENCE
49             "Subclause 11.8.3.7.1 in IEEE 802.16e-2005"
50         SYNTAX      BITS {fft256(0),
51                         fft2048(1),
52                         fft128(2),
53                         fft512(3),
54                         fft1024(4)}
55

```

56 2.6 Wman2IfOfdmaMsDeModType Change

```

57     [Changes from:]
58
59     Wman2IfOfdmaMsDeModType ::= TEXTUAL-CONVENTION

```

```

1      STATUS      current
2      DESCRIPTION
3          "This field indicates the different demodulator options
4          supported by a WirelessMAN-OFDMA PHY SS for downlink.
5          A bit value of 0 indicates 'not supported' while 1
6          indicates 'supported'." 
7      REFERENCE
8          "Subclause 11.8.3.7.2 in IEEE 802.16e"
9      SYNTAX      BITS {qam64(0),
10                  btc(1),
11                  ctc(2),
12                  stc(3),
13                  aasDiversityMapScan(4),
14                  harqChase(5),
15                  harqCtcIr(6),
16                  reserved(7),
17                  harqCcIr(8),
18                  ldpc(9)}
19
20     Wman2IfOfdmaPermutation ::= TEXTUAL-CONVENTION
21         STATUS      current
22         DESCRIPTION
23             "This field indicates the OFDMA SS Permutation support
24             A bit value of 0 indicates 'not supported' while 1
25             indicates 'supported'." 
26         REFERENCE
27             "Subclause 11.8.3.7.5 in IEEE 802.16e"
28         SYNTAX      BITS {optionalPuscSupport(0),
29                         optionalFuscSupport(1),
30                         amcOneBySixSupport(2),
31                         amcTwoByThreeSupport(3),
32                         amcThreeByTwoSupport(4),
33                         amcSupportWithHarqMap(5),
34                         tusc1Support(6),
35                         tusc2(7)}
36
37     [To:]
38
39     WmanIf2OfdmaMsDeModType ::= TEXTUAL-CONVENTION
40         STATUS      current
41         DESCRIPTION
42             "This field indicates the different demodulator options
43             supported by a WirelessMAN-OFDMA PHY SS for downlink.
44             A bit value of 0 indicates 'not supported' while 1
45             indicates 'supported'." 
46         REFERENCE
47             "Subclause 11.8.3.7.2 in IEEE Std 802.16e-2005"
48         SYNTAX      BITS {qam64(0),
49                         btc(1),
50                         ctc(2),
51                         stc(3),
52                         ccWithInterleacer(4),
53                         harqChase(5),
54                         harqCtcIr(6),
55                         reserved(7),
56                         harqCcIr(8),
57                         ldpc(9),
58                         dedicatedPilots(10)}
59
60
61     WmanIf2OfdmaPermutation ::= TEXTUAL-CONVENTION
62         STATUS      current
63         DESCRIPTION
64             "This field indicates the OFDMA SS Permutation support

```

```

1          A bit value of 0 indicates 'not supported' while 1
2          indicates 'supported'." 
3  REFERENCE
4      "Subclause 11.8.3.7.4 in IEEE 802.16e"
5  SYNTAX     BITS {optionalPuscSupport(0),
6                  optionalFuscSupport(1),
7                  amcOneBySixSupport(2),
8                  amcTwoByThreeSupport(3),
9                  amcThreeByTwoSupport(4),
10                 amcSupportWithHarqMap(5),
11                 tusc1Support(6),
12                 tusc2Support(7)}
13

```

2.7 WmanIf2eOfdmaDemMimo Change

```

14 [Insert the following ASN.1 notation:]
15
16
17 WmanIf2eOfdmaDemMimo ::= TEXTUAL-CONVENTION
18   STATUS    current
19   DESCRIPTION
20     "This field indicates the MIMO capability of OFDMA MS
21     demodulator. A bit value of 0 indicates 'not supported'
22     while 1 indicates 'supported'." 
23  REFERENCE
24      "Subclause 11.8.3.7.5 in IEEE 802.16e"
25  SYNTAX     BITS {twoAntStcMatrixA(0),
26                  twoAntStcMatrixBVCoding(1),
27                  twoAntStcMatrixBHCoding(2),
28                  fourAntStcMatrixA(3),
29                  fourAntStcMatrixBVCoding(4),
30                  fourAntStcMatrixBHCoding(5),
31                  fourAntStcMatrixCVCoding(6),
32                  fourAntStcMatrixCHCodingt(7)}
33
34 WmanIf2eOfdmaMimoCap ::= TEXTUAL-CONVENTION
35   STATUS    current
36   DESCRIPTION
37     "This field indicates the MIMO capability of
38     OFDMA MS demodulator."
39  REFERENCE
40      "Subclause 11.8.3.7.5 in IEEE 802.16e"
41  SYNTAX     BITS {twoAntStcMatrixA(0),
42                  twoAntStcMatrixBVCoding(1),
43                  fourRxAntenna(2),
44                  fourAntStcMatrixA(3),
45                  fourAntStcMatrixBVCoding(4),
46                  fourAntStcMatrixBHCoding(5),
47                  fourAntStcMatrixCVCoding(6),
48                  fourAntStcMatrixCHCodingt(7),
49                  threeAntStcMatrixA(8),
50                  threeAntStcMatrixB(9),
51                  threeAntStcMatrixCVCoding(10),
52                  threeAntStcMatrixCHCodingt(11),
53                  calculatingPrecodingWeight(12),
54                  adaptiveRateControl(13),
55                  calculatingChannelMatrix(14),
56                  antennaGrouping(15),
57                  antennaSelection(16),
58                  codebookBasedPrecoding(17),
59                  longTermPrecoding(18),
60                  mimoMidamble(19)}
61
62 WmanIf2eOfdmaUlMimo ::= TEXTUAL-CONVENTION

```

```

1      STATUS      current
2      DESCRIPTION
3          "This field indicates the different MIMO options supported
4          by a WirelessMAN-OFDMA PHY SS in the uplink.
5          A bit value of 0 indicates 'not supported' while 1
6          indicates 'supported'."
7      REFERENCE
8          "Subclause 11.8.3.7.6 in IEEE 802.16e"
9      SYNTAX      BITS {twoAntSttd(0),
10                  twoAntSmVCoding(1),
11                  oneAntCooperativeSm(2)}
12
13 WmanIf2eOfdmaPrivMap ::= TEXTUAL-CONVENTION
14     STATUS      current
15     DESCRIPTION
16         "This field indicates the AAS private map parameters
17         supported by a WirelessMAN-OFDMA SS. A bit value of
18         0 indicates 'not supported' while 1 indicates
19         'supported'."
20     REFERENCE
21         "Subclause 11.8.3.7.7 in IEEE Std 802.16e-2005"
22     SYNTAX      BITS {harqMap(0),
23                     privMap(1),
24                     reducedPrivMap(2),
25                     privMapChainEnable(3),
26                     privMapDlFrameOffset(4),
27                     privMapUlFrameOffset(5)}
28
29 WmanIf2eOfdmaAasCap ::= TEXTUAL-CONVENTION
30     STATUS      current
31     DESCRIPTION
32         "This field indicates the different AAS options
33         supported by a WirelessMAN-OFDMA PHY SS in the
34         downlink. A bit value of 0 indicates 'not supported'
35         while 1 indicates 'supported' for most bits."
36     REFERENCE
37         "Subclause 11.8.3.7.8 in IEEE Std 802.16e-2005"
38     SYNTAX      BITS {aasZone(0),
39                     aasDiversityMapScan(1),
40                     aasFbckRsp(2),
41                     dlAasPreamble(3),
42                     ulAasPreamble(4)}
43
44 WmanIf2eOfdmaCinrCap ::= TEXTUAL-CONVENTION
45     STATUS      current
46     DESCRIPTION
47         "This field indicates the CINR measurement capability
48         supported by a WirelessMAN-OFDMA PHY SS in the
49         downlink. A bit value of 0 indicates 'not supported'
50         while 1 indicates 'supported'."
51     REFERENCE
52         "Subclause 11.8.3.7.9 in IEEE Std 802.16e-2005"
53     SYNTAX      BITS {phyCinrPreamble(0),
54                     phyCinrPilotSubc(1),
55                     phyCinrDataSubc(2),
56                     effectiveCinrPreamble(3),
57                     effectiveCinrPilotSubc(4),
58                     effectiveCinrDataSubc(5),
59                     twoCqiChannel(6),
60                     freqSelectivityReport(7)}
61
62 WmanIf2eOfdmaUlPower ::= TEXTUAL-CONVENTION
63     STATUS      current
64     DESCRIPTION

```

```

1          "This field indicates the power control options
2          supported by a WirelessMAN-OFDMA PHY SS for uplink
3          transmission. A bit value of 0 indicates
4          'not supported' while 1 indicates 'supported'."  

5  REFERENCE  

6          "Subclause 11.8.3.7.11 in IEEE Std 802.16e-2005"  

7  SYNTAX      BITS {ulOpenLoopPwrCntl(0),
8                  ulAasPreamblePwrCntl(1)}  

9  

10 WmanIf2eOfdmaMapCap ::= TEXTUAL-CONVENTION  

11     STATUS    current  

12     DESCRIPTION  

13         "This field indicates the different MAP options supported
14         by a WirelessMAN-OFDMA PHY SS. A bit value of 0
15         indicates 'not supported' while 1 indicates 'supported'."  

16  REFERENCE  

17          "Subclause 11.8.3.7.12 in IEEE Std 802.16e-2005"  

18  SYNTAX      BITS {harqMap(0),
19                  extendedHarqIe(1),
20                  subMapFor1stZone(2),
21                  subMapForOtherZone(3),
22                  dlRegionDefinition(4)}  

23  

24 WmanIf2eOfdmaUlCntlCh ::= TEXTUAL-CONVENTION  

25     STATUS    current  

26     DESCRIPTION  

27         "This field indicates different uplink control channels
28         supported by a WirelessMAN-OFDMA PHY SS. A bit value
29         of 0 indicates 'not supported' while 1 indicates
30         'supported'."  

31  REFERENCE  

32          "Subclause 11.8.3.7.13 in IEEE Std 802.16e-2005"  

33  SYNTAX      BITS {threeBitMimoFastFeedback(0),
34                  enhancedFastFeedback(1),
35                  ulAck(2),
36                  reserved(3),
37                  uepFastFeedback(4),
38                  fastDlMeasurementFeedback(5),
39                  priSecFastFeedback(6),
40                  diucCqiFastFeedback(7)}  

41  

42 WmanIf2eOfdmaMsCistCap ::= TEXTUAL-CONVENTION  

43     STATUS    current  

44     DESCRIPTION  

45         "This field indicates MS capability of supporting CSIT
46         (uplink sounding). A bit value of 0 indicates 'not
47         supported' while 1 indicates 'supported'."  

48  REFERENCE  

49          "Subclause 11.8.3.7.14 in IEEE Std 802.16e-2005"  

50  SYNTAX      BITS {csitTypeA(0),
51                  csitTypeB(1),
52                  powerAssignment(2),
53                  noP90Or18ForCsitTypeA(10),
54                  csitNotSupported(11)}  

55  

56 WmanIf2eOfdmaModMimo ::= TEXTUAL-CONVENTION  

57     STATUS    current  

58     DESCRIPTION  

59         "This field indicates the MIMO capability of OFDMA SS
60         modulator. A bit value of 0 indicates 'not supported'
61         while 1 indicates 'supported'."  

62  REFERENCE  

63          "Subclause 11.8.3.7.16 in IEEE Std 802.16e-2005"  

64  SYNTAX      BITS {twoTxAntenna(0),

```

```

1                      txDiversity(1),
2                      spatialMultiplexing(2),
3                      beamforming(3),
4                      adaptiveRateControl(4),
5                      singleAntenna(5),
6                      twoAntenna(6) }

7
8 WmanIf2eSdmaPilotCap ::= TEXTUAL-CONVENTION
9     STATUS      current
10    DESCRIPTION
11        "This field indicates SDMA pilot pattern support for
12            AMC zone."
13    REFERENCE
14        "Subclause 11.8.3.7.17 in IEEE Std 802.16e-2005"
15    SYNTAX      INTEGER {noSupport(0),
16                            sdmaPilotAandB(1),
17                            allSdmaPilotPatterns(2) }

18
19 WmanIf2eMultiBurst ::= TEXTUAL-CONVENTION
20     STATUS      current
21    DESCRIPTION
22        "This field indicates whether multiple FEC types are
23            supported in DL/UL burst profiles. A bit value of 0
24            indicates 'not supported' while 1 indicates
25            'supported'"
26    REFERENCE
27        "Subclause 11.8.3.7.18 in IEEE Std 802.16e-2005"
28    SYNTAX      INTEGER {dlWithMultiFecType(0),
29                            ulWithMultiFecType(1) }

30
31 WmanIf2eIncrHarqBuf ::= TEXTUAL-CONVENTION
32     STATUS      current
33    DESCRIPTION
34        "This field indicates the aggregation flag control for
35            buffering for NEP/NSCH based incremental redundancy CTC
36            in DL and UL transmissions.
37
38        Bit      4: Aggregation Flag for DL
39                    0 = the number of bits is counted separately
40                        for each channel
41                    1 = buffering capability may be shared between
42                        channels
43
44        Bit      12: Aggregation Flag for UL
45                    0 = the number of bits is counted separately
46                        for each channel
47                    1 = buffering capability may be shared between
48                        channels"
49    REFERENCE
50        "Subclause 11.8.3.7.19.1 in IEEE Std 802.16e-2005"
51    SYNTAX      INTEGER {dlAggFlag(4),
52                            ulAggFlag(12) }

53
54 WmanIf2eChaseHarqBuf ::= TEXTUAL-CONVENTION
55     STATUS      current
56    DESCRIPTION
57        "This field indicates the Aggregation Flag control for
58            buffering of DIUC/duration based HARQ methods (Chase
59            combining and CC-IR) in downlink and uplink transmissions.
60
61        Bit      6: Aggregation Flag for DL
62                    0 = the number of bits is counted separately
63                        for each channel
64                    1 = buffering capability may be shared between

```

```

1           channels
2
3           Bit      14: Aggregation Flag for UL
4                   0 = the number of bits is counted separately
5                   for each channel
6                   1 = buffering capability may be shared between
7                   channels"
8           REFERENCE
9                   "Subclause 11.8.3.7.19.2 in IEEE Std 802.16e-2005"
10          SYNTAX     INTEGER {dlAggFlag(6),
11                      ulAggFlag(14)}
12
13

```

2.8 Wman2PsClassType Change

```

14 [Changes from:]
15
16
17 Wman2PsClassType ::= TEXTUAL-CONVENTION
18   STATUS    current
19   DESCRIPTION
20         "The types of power saving classes."
21   REFERENCE
22         "Table 374a in IEEE Std 802.16e-2005"
23   SYNTAX     INTEGER {powerSavingClassTypeI(1),
24                     powerSavingClassTypeII(2),
25                     powerSavingClassTypeIII(3)}
26
27 Wman2PsClassCidDirection ::= TEXTUAL-CONVENTION
28   STATUS    current
29   DESCRIPTION
30         "The direction of power saving class's CIDs.
31         0b00 = Unspecified. Each CID has its own direction
32             assign in its connection creation. Can be
33             DL, UL, or both (in the case of management
34             connections).
35         0b01 = Downlink direction only.
36         0b10 = Uplink direction only."
37   REFERENCE
38         "Subclause 6.3.2.3.44 in IEEE Std 802.16e-2005"
39   SYNTAX     INTEGER {unspecified(0),
40                     downlink(1),
41                     uplink(2)}
42
43 [To:]
44
45 WmanIf2ePsClassType ::= TEXTUAL-CONVENTION
46   STATUS    current
47   DESCRIPTION
48         "The types of power saving classes."
49   REFERENCE
50         "Table 374a in IEEE Std 802.16e-2005"
51   SYNTAX     INTEGER {powerSavingClassTypeI(1),
52                     powerSavingClassTypeII(2),
53                     powerSavingClassTypeIII(3)}
54
55 WmanIf2ePsClassCidDir ::= TEXTUAL-CONVENTION
56   STATUS    current
57   DESCRIPTION
58         "The direction of power saving class's CIDs.
59         0b00 = Unspecified. Each CID has its own direction
60             assign in its connection creation. Can be
61             DL, UL, or both (in the case of management

```

```

1           connections).
2   0b01 = Downlink direction only.
3   0b10 = Uplink direction only."
4
5   REFERENCE
6       "Subclause 6.3.2.3.44 in IEEE Std 802.16e-2005"
7
8   SYNTAX      INTEGER {unspecified(0),
9                   downlink(1),
9                   uplink(2)}
9

```

2.9 WmanIf2eMaxMacLevel Change

```

10
11  [Insert the following ASN.1 notation:]
12
13  WmanIf2eMaxMacLevel ::= TEXTUAL-CONVENTION
14      STATUS current
15      DESCRIPTION
16          "maximum amount of MAC level data including MAC headers
17          and HARQ retransmission bursts the MS is capable of
18          processing in the DL/UL part of a single MAC frame."
19
20      REFERENCE
21          "Subclause 11.7.8.10 in IEEE Std 802.16e-2005"
22
23      SYNTAX      INTEGER (0..65535)
24
25  WmanIf2ePackingSupport ::= TEXTUAL-CONVENTION
26      STATUS current
27      DESCRIPTION
28          "Indicates the availability of MS support for Packing"
29
30      REFERENCE
31          "Subclause 11.7.8.11 in IEEE Std 802.16e-2005"
32
33      SYNTAX      INTEGER {noPackingSupport(0),
34                           packingSupported(1)}
35
36  WmanIf2eExtRtpsSupport ::= TEXTUAL-CONVENTION
37      STATUS current
38      DESCRIPTION
39          "Indicates the availability of MS support for Extended
40          rtPS."
41
42      REFERENCE
43          "Subclause 11.7.8.12 in IEEE Std 802.16e-2005"
44
45      SYNTAX      INTEGER {noExtendedRtpsSupport(0),
46                           extendedRtpsSupported(1)}
47
48  WmanIf2eIpAllocMethod ::= TEXTUAL-CONVENTION
49      STATUS current
50      DESCRIPTION
51          "Indicates the method of allocating IP address for the
52          secondary management connection. A bit value of 0
53          indicates 'not supported' while 1 indicates 'supported'."'
54
55      REFERENCE
56          "Subclause 11.7.8.11 in IEEE Std 802.16e-2005"
57
58      SYNTAX      BITS {dhcp(0),
59                         mobileIpv4(1),
60                         dhcpV6(2),
61                         ipv6Autoconfig(3)}
62
63  WmanIf2eHandoverType ::= TEXTUAL-CONVENTION
64      STATUS current
65      DESCRIPTION
66          "Indicates what type(s) of Handover the BS and the MS
67          supports.
68              bit#0: when it is set to 1, MDHO/FBSS HO not supported.
69                  the BS shall ignore all other bits.
70              bit#1: when it is set to 1, FBSS/MDHO DL RF Combining
71
72

```

```

1           is supported with monitoring MAPs from active BSS
2   bit#2: when it is set to 1, MDHO DL soft Combining is
3           supported with monitoring single MAP from
4           anchor BS
5   bit#3: when it is set to 1, MDHO DL soft combining is
6           supported with monitoring MAPs from active BSSs
7   bit#3: when it is set to 1, MDHO UL Multiple
8           transmission is supported"
9
10  REFERENCE
11      "Subclause 11.7.8.12 in IEEE Std 802.16e-2005"
12  SYNTAX     BITS {mdhcFbssHoNotSupported(0),
13                  mdhcFbssDlMapsFromActiveBss(1),
14                  mdhcDlMapFromAnchorBs(2),
15                  mdhcDlMapsFromActiveBss(3),
16                  mdhcUlMultipleTx(4) }
17
18  WmanIf2eArqAckType ::= TEXTUAL-CONVENTION
19      STATUS current
20  DESCRIPTION
21      "Specifies the ARQ ACK type supported by the MS."
22  REFERENCE
23      "Subclause 11.7.23 in IEEE Std 802.16e-2005"
24  SYNTAX     BITS {selectiveAck(0),
25                  cumulativeAck(1),
26                  cumWithSelAck(2),
27                  cumWithBlockSeqAck(3) }
28
29  WmanIf2eMacHeaderSupp ::= TEXTUAL-CONVENTION
30      STATUS current
31  DESCRIPTION
32      "Indicates whether or not the MS and BS support various
33      types of MAC header and extended subheaders. A bit
34      value of 0 indicates 'not supported', while 1 indicates
35      'supported'.
36      Bits 8-10: parameters of SDU_SN extended subheader that
37      represent the period of SDU_SN transmission for
38      connection with ARQ disabled = once every  $2^p$  MAC
39      PDUs."
40  REFERENCE
41      "Subclause 11.7.25 in IEEE Std 802.16e-2005"
42  SYNTAX     BITS {bwReqUltxPowerReport(0),
43                  bwReqCinrReport(1),
44                  cqichAllocationReq(2),
45                  phyChannelReport(3),
46                  bwReqUlSleepCntl(4),
47                  snReport(5),
48                  feedbackReport(6),
49                  sduSn(7),
50                  sdnSnPeriod0(8),
51                  sdnSnPeriod1(9),
52                  sdnSnPeriod2(10),
53                  dlSleepControl(11),
54                  feedbackRequest(12),
55                  mimcModeFeedback(13),
56                  ultxPowerReport(14),
57                  miniFeedback(15),
58                  snRequest(16),
59                  shortPduSn(17),
60                  longPduSn(18) }
61

```

1 2.10 wmanIf2eBsSsReqCapabilitiesTable Change

```

2 [Insert the following ASN.1 notation:]
3
4 wmanIf2eBsSsReqCapabilitiesTable OBJECT-TYPE
5   SYNTAX      SEQUENCE OF WmanIf2eBsSsReqCapabilitiesEntry
6   MAX-ACCESS  not-accessible
7   STATUS      current
8   DESCRIPTION
9     "This table augments wmanIf2BsRegisteredSsTable to include
10    new capabilities as introduced in IEEE 802.16e 2005
11    standard."
12    ::= { wmanIf2BsCapabilities 5 }
13
14 wmanIf2eBsSsReqCapabilitiesEntry OBJECT-TYPE
15   SYNTAX      WmanIf2eBsSsReqCapabilitiesEntry
16   MAX-ACCESS  not-accessible
17   STATUS      current
18   DESCRIPTION
19     "This table provides one row for each MS that has been
20     registered in the BS. This table augments the table
21     wmanIf2BsRegisteredSsTable."
22   AUGMENTS { wmanIf2BsRegisteredSsEntry }
23   ::= { wmanIf2eBsSsReqCapabilitiesTable 1 }
24
25 WmanIf2eBsSsReqCapabilitiesEntry ::= SEQUENCE {
26   wmanIf2eBsSsReqCapDownlinkCidSupport           WmanIf2eNumOfCid,
27   wmanIf2eBsSsReqCapPackingSupport              WmanIf2ePackingSupport,
28   wmanIf2eBsSsReqCapExtendedRtpsSupport         WmanIf2eExtRtpsSupport,
29   wmanIf2eBsSsReqCapMaxNumBurstToMs             INTEGER,
30   wmanIf2eBsSsReqCapIpAddrAllocMethod          WmanIf2eIpAllocMethod,
31   wmanIf2eBsSsReqCapHandoverSupported          WmanIf2eHandoverType,
32   wmanIf2eBsSsReqCapHoProcessTimer             Unsigned32,
33   wmanIf2eBsSsReqCapIdleModeTimeout            Unsigned32,
34   wmanIf2eBsSsReqCapArqAckType                WmanIf2eArqAckType,
35   wmanIf2eBsSsReqCapMacHeader                 WmanIf2eMacHeaderSupp}
36
37 wmanIf2eBsSsReqCapDownlinkCidSupport OBJECT-TYPE
38   SYNTAX      WmanIf2eNumOfCid
39   MAX-ACCESS  read-only
40   STATUS      current
41   DESCRIPTION
42     "This object shows the number of Downlink CIDs the SS can
43     support."
44   ::= { wmanIf2eBsSsReqCapabilitiesEntry 1 }
45
46 wmanIf2eBsSsReqCapPackingSupport OBJECT-TYPE
47   SYNTAX      WmanIf2ePackingSupport
48   MAX-ACCESS  read-only
49   STATUS      current
50   DESCRIPTION
51     "Indicates the availability of MS support for Packing."
52   REFERENCE
53     "Subclause 11.7.8.11 in IEEE Std 802.16e-2005"
54   ::= { wmanIf2eBsSsReqCapabilitiesEntry 2 }
55
56 wmanIf2eBsSsReqCapExtendedRtpsSupport OBJECT-TYPE
57   SYNTAX      WmanIf2eExtRtpsSupport
58   MAX-ACCESS  read-only
59   STATUS      current
60   DESCRIPTION
61     "Indicates the availability of MS support for extended
62     rtPs."

```

```

1      REFERENCE
2          "Subclause 11.7.8.12 in IEEE Std 802.16e-2005"
3          ::= { wmanIf2eBsSsReqCapabilitiesEntry 3 }
4
5      wmanIf2eBsSsReqCapMaxNumBurstToMs OBJECT-TYPE
6          SYNTAX      INTEGER (1..16)
7          MAX-ACCESS  read-only
8          STATUS      current
9          DESCRIPTION
10             "Maximum number of bursts transmitted concurrently to the MS
11             , including all bursts without CID or with CIDs matching
12             the MS's CIDs."
13          REFERENCE
14             "Subclause 11.7.8.13 in IEEE Std 802.16e-2005"
15             ::= { wmanIf2eBsSsReqCapabilitiesEntry 4 }
16
17      wmanIf2eBsSsReqCapIpAddrAllocMethod OBJECT-TYPE
18          SYNTAX      WmanIf2eIpAllocMethod
19          MAX-ACCESS  read-only
20          STATUS      current
21          DESCRIPTION
22             "Indicates the method of allocating IP address for the
23             secondary management connection."
24          REFERENCE
25             "Subclause 11.7.11 in IEEE Std 802.16e-2005"
26             ::= { wmanIf2eBsSsReqCapabilitiesEntry 5 }
27
28      wmanIf2eBsSsReqCapHandoverSupported OBJECT-TYPE
29          SYNTAX      WmanIf2eHandoverType
30          MAX-ACCESS  read-only
31          STATUS      current
32          DESCRIPTION
33             "Indicates what type(s) of Handover the BS or MS supports."
34          REFERENCE
35             "Subclause 11.7.12 in IEEE Std 802.16e-2005"
36             ::= { wmanIf2eBsSsReqCapabilitiesEntry 6 }
37
38      wmanIf2eBsSsReqCapHoProcessTimer OBJECT-TYPE
39          SYNTAX      Unsigned32
40          UNITS       "frames"
41          MAX-ACCESS  read-only
42          STATUS      current
43          DESCRIPTION
44             "The duration in frames the MS shall wait until receipt of
45             the next unsolicited network re-entry MAC management
46             message as indicated in the HO Process Optimization
47             element of the RNG-RSP message."
48          REFERENCE
49             "Subclause 11.7.13.2 in IEEE Std 802.16e-2005"
50             ::= { wmanIf2eBsSsReqCapabilitiesEntry 7 }
51
52      wmanIf2eBsSsReqCapIdleModeTimeout OBJECT-TYPE
53          SYNTAX      Unsigned32
54          UNITS       "seconds"
55          MAX-ACCESS  read-only
56          STATUS      current
57          DESCRIPTION
58             "Max time interval between MS Idle Mode Location Updates."
59          REFERENCE
60             "Subclause 11.7.20.1 in IEEE Std 802.16e-2005"
61             DEFVAL     { 4096 }
62             ::= { wmanIf2eBsSsReqCapabilitiesEntry 8 }
63
64      wmanIf2eBsSsReqCapArqAckType OBJECT-TYPE

```

```

1      SYNTAX      WmanIf2eArqAckType
2      MAX-ACCESS  read-only
3      STATUS      current
4      DESCRIPTION
5          "The value of this parameter specifies the ARQ ACK type
6          supported by the MS."
7      REFERENCE
8          "Subclause 11.7.23 in IEEE Std 802.16e-2005"
9          ::= { wmanIf2eBsSsReqCapabilitiesEntry 9 }
10
11     wmanIf2eBsSsReqCapMacHeader OBJECT-TYPE
12         SYNTAX      WmanIf2eMacHeaderSupp
13         MAX-ACCESS  read-only
14         STATUS      current
15         DESCRIPTION
16             "Indicates whether or not the MS and BS support various
17             types of MAC header and extended subheaders."
18         REFERENCE
19             "Subclause 11.7.25 in IEEE Std 802.16e-2005"
20             ::= { wmanIf2eBsSsReqCapabilitiesEntry 10 }
21
22     wmanIf2eBsSsRspCapabilitiesTable OBJECT-TYPE
23         SYNTAX      SEQUENCE OF WmanIf2eBsSsRspCapabilitiesEntry
24         MAX-ACCESS  not-accessible
25         STATUS      current
26         DESCRIPTION
27             "This table contains the basic capability information of SSSs
28             that have been negotiated and agreed between BS and SS via
29             RNG-REQ/RSP, SBC-REQ/RSP and REG-REQ/RSP messages.
30             This table augments the wmanIf2BsRegisteredSsTable."
31         REFERENCE
32             "Subclause 6.3.2.3.7 in IEEE Std 802.16-2004"
33             ::= { wmanIf2BsCapabilities 6 }
34
35     wmanIf2eBsSsRspCapabilitiesEntry OBJECT-TYPE
36         SYNTAX      WmanIf2eBsSsRspCapabilitiesEntry
37         MAX-ACCESS  not-accessible
38         STATUS      current
39         DESCRIPTION
40             "This table provides one row for each SS that has been
41             registered in the BS. This table augments the
42             wmanIf2BsRegisteredSsTable."
43         AUGMENTS { wmanIf2BsRegisteredSsEntry }
44         ::= { wmanIf2eBsSsRspCapabilitiesTable 1 }
45
46     WmanIf2eBsSsRspCapabilitiesEntry ::= SEQUENCE {
47         wmanIf2eBsSsRspCapDownlinkCidSupport      WmanIf2eNumOfCid,
48         wmanIf2eBsSsRspCapPackingSupport        WmanIf2ePackingSupport,
49         wmanIf2eBsSsRspCapExtendedRtpsSupport   WmanIf2eExtRtpsSupport,
50         wmanIf2eBsSsRspCapMaxNumBurstToMs       INTEGER,
51         wmanIf2eBsSsRspCapIpAddrAllocMethod     WmanIf2eIpAllocMethod,
52         wmanIf2eBsSsRspCapHandoverSupported    WmanIf2eHandoverType,
53         wmanIf2eBsSsRspCapHoProcessTimer       Unsigned32,
54         wmanIf2eBsSsRspCapIdleModeTimeout      Unsigned32,
55         wmanIf2eBsSsRspCapArqAckType          WmanIf2eArqAckType,
56         wmanIf2eBsSsRspCapMacHeader           WmanIf2eMacHeaderSupp}
57
58     wmanIf2eBsSsRspCapDownlinkCidSupport OBJECT-TYPE
59         SYNTAX      WmanIf2eNumOfCid
60         MAX-ACCESS  read-only
61         STATUS      current
62         DESCRIPTION
63             "This object shows the number of Downlink CIDs the SS can
64             support."

```

```

1           ::= { wmanIf2eBsSsRspCapabilitiesEntry 1 }
2
3   wmanIf2eBsSsRspCapPackingSupport OBJECT-TYPE
4       SYNTAX      WmanIf2ePackingSupport
5       MAX-ACCESS  read-only
6       STATUS      current
7       DESCRIPTION
8           "Indicates the availability of MS support for Packing."
9       REFERENCE
10          "Subclause 11.7.8.11 in IEEE Std 802.16e-2005"
11          ::= { wmanIf2eBsSsRspCapabilitiesEntry 2 }
12
13  wmanIf2eBsSsRspCapExtendedRtpsSupport OBJECT-TYPE
14      SYNTAX      WmanIf2eExtRtpsSupport
15      MAX-ACCESS  read-only
16      STATUS      current
17      DESCRIPTION
18          "Indicates the availability of MS support for extended
19          rtPs."
20      REFERENCE
21          "Subclause 11.7.8.12 in IEEE Std 802.16e-2005"
22          ::= { wmanIf2eBsSsRspCapabilitiesEntry 3 }
23
24  wmanIf2eBsSsRspCapMaxNumBurstToMs OBJECT-TYPE
25      SYNTAX      INTEGER (1..16)
26      MAX-ACCESS  read-only
27      STATUS      current
28      DESCRIPTION
29          "Maximum number of bursts transmitted concurrently to the MS
30          , including all bursts without CID or with CIDs matching
31          the MS CIDs."
32      REFERENCE
33          "Subclause 11.7.8.13 in IEEE Std 802.16e-2005"
34          ::= { wmanIf2eBsSsRspCapabilitiesEntry 4 }
35
36  wmanIf2eBsSsRspCapIpAddrAllocMethod OBJECT-TYPE
37      SYNTAX      WmanIf2eIpAllocMethod
38      MAX-ACCESS  read-only
39      STATUS      current
40      DESCRIPTION
41          "Indicates the method of allocating IP address for the
42          secondary management connection."
43      REFERENCE
44          "Subclause 11.7.11 in IEEE Std 802.16e-2005"
45          ::= { wmanIf2eBsSsRspCapabilitiesEntry 5 }
46
47  wmanIf2eBsSsRspCapHandoverSupported OBJECT-TYPE
48      SYNTAX      WmanIf2eHandoverType
49      MAX-ACCESS  read-only
50      STATUS      current
51      DESCRIPTION
52          "Indicates what type(s) of Handover the BS or MS supports."
53      REFERENCE
54          "Subclause 11.7.12 in IEEE Std 802.16e-2005"
55          ::= { wmanIf2eBsSsRspCapabilitiesEntry 6 }
56
57  wmanIf2eBsSsRspCapHoProcessTimer OBJECT-TYPE
58      SYNTAX      Unsigned32
59      UNITS      "frames"
60      MAX-ACCESS  read-only
61      STATUS      current
62      DESCRIPTION
63          "The duration in frames the MS shall wait until receipt of
64          the next unsolicited network re-entry MAC management

```

```

1               message as indicated in the HO Process Optimization
2               element of the RNG-RSP message."
3
4               REFERENCE
5                   "Subclause 11.7.13.2 in IEEE Std 802.16e-2005"
6                   ::= { wmanIf2eBsSsRspCapabilitiesEntry 7 }
7
8               wmanIf2eBsSsRspCapIdleModeTimeout OBJECT-TYPE
9                   SYNTAX      Unsigned32
10                  UNITS       "seconds"
11                  MAX-ACCESS  read-only
12                  STATUS      current
13                  DESCRIPTION
14                      "Max time interval between MS Idle Mode Location Updates."
15
16                  REFERENCE
17                      "Subclause 11.7.20.1 in IEEE Std 802.16e-2005"
18                      DEFVAL     { 4096 }
19                      ::= { wmanIf2eBsSsRspCapabilitiesEntry 8 }
20
21               wmanIf2eBsSsRspCapArqAckType OBJECT-TYPE
22                   SYNTAX      WmanIf2eArqAckType
23                   MAX-ACCESS  read-only
24                   STATUS      current
25                   DESCRIPTION
26                       "The value of this parameter specifies the ARQ ACK type
27                       supported by the MS."
28
29                   REFERENCE
30                       "Subclause 11.7.23 in IEEE Std 802.16e-2005"
31                       ::= { wmanIf2eBsSsRspCapabilitiesEntry 9 }
32
33               wmanIf2eBsSsRspCapMacHeader OBJECT-TYPE
34                   SYNTAX      WmanIf2eMacHeaderSupp
35                   MAX-ACCESS  read-only
36                   STATUS      current
37                   DESCRIPTION
38                       "Indicates whether or not the MS and BS support various
39                       types of MAC header and extended subheaders."
40
41                   REFERENCE
42                       "Subclause 11.7.25 in IEEE Std 802.16e-2005"
43                       ::= { wmanIf2eBsSsRspCapabilitiesEntry 10 }
44
45               wmanIf2eBsBasicCapabilitiesTable OBJECT-TYPE
46                   SYNTAX      SEQUENCE OF WmanIf2eBsBasicCapabilitiesEntry
47                   MAX-ACCESS  not-accessible
48                   STATUS      current
49                   DESCRIPTION
50                       "This table contains the basic capabilities of the BS as
51                       implemented in BS hardware and software. These capabilities
52                       along with the configuration for them
53                           (wmanIf2eBsCapabilitiesConfigTable) are used for
54
55               negotiation
56                   of basic capabilities with SS using RNG-RSP, SBC-RSP and
57                   REG-RSP messages. The negotiated capabilities are obtained
58                   by interSubclause of SS raw reported capabilities, BS raw
59                   capabilities and BS configured capabilities. The objects in
60                   the table have read-only access. The table is maintained
61                   by BS."
62
63                   ::= { wmanIf2eBsCapabilities 7 }
64
65               wmanIf2eBsBasicCapabilitiesEntry OBJECT-TYPE
66                   SYNTAX      WmanIf2eBsBasicCapabilitiesEntry
67                   MAX-ACCESS  not-accessible
68                   STATUS      current
69                   DESCRIPTION
70                       "This table provides one row for each BS sector and is

```

```

1           indexed by ifIndex."
2           INDEX { ifIndex }
3           ::= { wmanIf2eBsBasicCapabilitiesTable 1 }
4
5   WmanIf2eBsBasicCapabilitiesEntry ::= SEQUENCE {
6       wmanIf2eBsCapDownlinkCidSupport          WmanIf2eNumOfCid,
7       wmanIf2eBsCapPackingSupport             WmanIf2ePackingSupport,
8       wmanIf2eBsCapExtendedRtpsSupport        WmanIf2eExtRtpsSupport,
9       wmanIf2eBsCapMaxNumBurstToMs          INTEGER,
10      wmanIf2eBsCapIpAddrAllocMethod         WmanIf2eIpAllocMethod,
11      wmanIf2eBsCapHandoverSupported        WmanIf2eHandoverType,
12      wmanIf2eBsCapHoProcessTimer          Unsigned32,
13      wmanIf2eBsCapIdleModeTimeout        Unsigned32,
14      wmanIf2eBsCapArqAckType            WmanIf2eArqAckType,
15      wmanIf2eBsCapMacHeader             WmanIf2eMacHeaderSupp}
16
17   wmanIf2eBsCapDownlinkCidSupport OBJECT-TYPE
18       SYNTAX      WmanIf2eNumOfCid
19       MAX-ACCESS  read-only
20       STATUS      current
21       DESCRIPTION
22           "This object shows the number of Downlink CIDs the SS can
23           support."
24       ::= { wmanIf2eBsBasicCapabilitiesEntry 1 }
25
26   wmanIf2eBsCapPackingSupport OBJECT-TYPE
27       SYNTAX      WmanIf2ePackingSupport
28       MAX-ACCESS  read-only
29       STATUS      current
30       DESCRIPTION
31           "Indicates the availability of MS support for Packing."
32       REFERENCE
33           "Subclause 11.7.8.11 in IEEE Std 802.16e-2005"
34       ::= { wmanIf2eBsBasicCapabilitiesEntry 2 }
35
36   wmanIf2eBsCapExtendedRtpsSupport OBJECT-TYPE
37       SYNTAX      WmanIf2eExtRtpsSupport
38       MAX-ACCESS  read-only
39       STATUS      current
40       DESCRIPTION
41           "Indicates the availability of MS support for extended
42           rtPs."
43       REFERENCE
44           "Subclause 11.7.8.12 in IEEE Std 802.16e-2005"
45       ::= { wmanIf2eBsBasicCapabilitiesEntry 3 }
46
47   wmanIf2eBsCapMaxNumBurstToMs OBJECT-TYPE
48       SYNTAX      INTEGER (1..16)
49       MAX-ACCESS  read-only
50       STATUS      current
51       DESCRIPTION
52           "Maximum number of bursts transmitted concurrently to the MS
53           , including all bursts without CID or with CIDs matching
54           the MS CIDs."
55       REFERENCE
56           "Subclause 11.7.8.13 in IEEE Std 802.16e-2005"
57       ::= { wmanIf2eBsBasicCapabilitiesEntry 4 }
58
59   wmanIf2eBsCapIpAddrAllocMethod OBJECT-TYPE
60       SYNTAX      WmanIf2eIpAllocMethod
61       MAX-ACCESS  read-only
62       STATUS      current
63       DESCRIPTION
64           "Indicates the method of allocating IP address for the

```

```

1           secondary management connection."
2   REFERENCE
3       "Subclause 11.7.11 in IEEE Std 802.16e-2005"
4       ::= { wmanIf2eBsBasicCapabilitiesEntry 5 }
5
6   wmanIf2eBsCapHandoverSupported OBJECT-TYPE
7       SYNTAX      WmanIf2eHandoverType
8       MAX-ACCESS  read-only
9       STATUS      current
10      DESCRIPTION
11         "Indicates what type(s) of Handover the BS or MS supports."
12   REFERENCE
13       "Subclause 11.7.12 in IEEE Std 802.16e-2005"
14       ::= { wmanIf2eBsBasicCapabilitiesEntry 6 }
15
16   wmanIf2eBsCapHoProcessTimer OBJECT-TYPE
17       SYNTAX      Unsigned32
18       UNITS       "frames"
19       MAX-ACCESS  read-only
20       STATUS      current
21       DESCRIPTION
22         "The duration in frames the MS shall wait until receipt of
23           the next unsolicited network re-entry MAC management
24             message as indicated in the HO Process Optimization
25               element of the RNG-RSP message."
26   REFERENCE
27       "Subclause 11.7.13.2 in IEEE Std 802.16e-2005"
28       ::= { wmanIf2eBsBasicCapabilitiesEntry 7 }
29
30   wmanIf2eBsCapIdleModeTimeout OBJECT-TYPE
31       SYNTAX      Unsigned32
32       UNITS       "seconds"
33       MAX-ACCESS  read-only
34       STATUS      current
35       DESCRIPTION
36         "Max time interval between MS Idle Mode Location Updates."
37   REFERENCE
38       "Subclause 11.7.20.1 in IEEE Std 802.16e-2005"
39       DEFVAL     { 4096 }
40       ::= { wmanIf2eBsBasicCapabilitiesEntry 8 }
41
42   wmanIf2eBsCapArqAckType OBJECT-TYPE
43       SYNTAX      WmanIf2eArqAckType
44       MAX-ACCESS  read-only
45       STATUS      current
46       DESCRIPTION
47         "The value of this parameter specifies the ARQ ACK type
48           supported by the MS."
49   REFERENCE
50       "Subclause 11.7.23 in IEEE Std 802.16e-2005"
51       ::= { wmanIf2eBsBasicCapabilitiesEntry 9 }
52
53   wmanIf2eBsCapMacHeader OBJECT-TYPE
54       SYNTAX      WmanIf2eMacHeaderSupp
55       MAX-ACCESS  read-only
56       STATUS      current
57       DESCRIPTION
58         "Indicates whether or not the MS and BS support various
59           types of MAC header and extended subheaders."
60   REFERENCE
61       "Subclause 11.7.25 in IEEE Std 802.16e-2005"
62       ::= { wmanIf2eBsBasicCapabilitiesEntry 10 }
63
64   wmanIf2eBsCapabilitiesConfigTable OBJECT-TYPE

```

```

1      SYNTAX      SEQUENCE OF WmanIf2eBsCapabilitiesConfigEntry
2      MAX-ACCESS  not-accessible
3      STATUS      current
4      DESCRIPTION
5          "This table contains the configuration for basic
6          capabilities of BS. The table is intended to be used to
7          restrict the Capabilities implemented by BS, for example in
8          order to comply with local regulatory requirements. The BS
9          should use the configuration along with the implemented
10         Capabilities (wmanIf2eBsBasicCapabilitiesTable) for
11         negotiation of basic capabilities with SS using RNG-RSP,
12         SBC-RSP and REG-RSP messages. The negotiated capabilities
13         are obtained by interSubclause of SS reported capabilities,
14         BS raw capabilities and BS configured capabilities. The
15         objects in the table have read-write access. The rows are
16         created by BS as a copy of wmanIf2eBsBasicCapabilitiesTable
17         and can be modified by NMS."
18         ::= { wmanIf2BsCapabilities 8 }
19
20     wmanIf2eBsCapabilitiesConfigEntry OBJECT-TYPE
21         SYNTAX      WmanIf2eBsCapabilitiesConfigEntry
22         MAX-ACCESS  not-accessible
23         STATUS      current
24         DESCRIPTION
25             "This table provides one row for each BS sector and is
26             indexed by ifIndex."
27             INDEX { ifIndex }
28             ::= { wmanIf2eBsCapabilitiesConfigTable 1 }
29
30     WmanIf2eBsCapabilitiesConfigEntry ::= SEQUENCE {
31         wmanIf2eBsCapCfgDownlinkCidSupport      WmanIf2eNumOfCid,
32         wmanIf2eBsCapCfgPackingSupport        WmanIf2ePackingSupport,
33         wmanIf2eBsCapCfgExtendedRtpsSupport   WmanIf2eExtRtpsSupport,
34         wmanIf2eBsCapCfgMaxNumBurstToMs      INTEGER,
35         wmanIf2eBsCapCfgIpAddrAllocMethod    WmanIf2eIpAllocMethod,
36         wmanIf2eBsCapCfgHandoverSupported    WmanIf2eHandoverType,
37         wmanIf2eBsCapCfgHoProcessTimer       Unsigned32,
38         wmanIf2eBsCapCfgIdleModeTimeout     Unsigned32,
39         wmanIf2eBsCapCfgArqAckType         WmanIf2eArqAckType,
40         wmanIf2eBsCapCfgMacHeader          WmanIf2eMacHeaderSupp}
41
42     wmanIf2eBsCapCfgDownlinkCidSupport OBJECT-TYPE
43         SYNTAX      WmanIf2eNumOfCid
44         MAX-ACCESS  read-write
45         STATUS      current
46         DESCRIPTION
47             "This object shows the number of Downlink CIDs the SS can
48             support."
49             ::= { wmanIf2eBsCapabilitiesConfigEntry 1 }
50
51     wmanIf2eBsCapCfgPackingSupport OBJECT-TYPE
52         SYNTAX      WmanIf2ePackingSupport
53         MAX-ACCESS  read-only
54         STATUS      current
55         DESCRIPTION
56             "Indicates the availability of MS support for Packing."
57         REFERENCE
58             "Subclause 11.7.8.11 in IEEE Std 802.16e-2005"
59             ::= { wmanIf2eBsCapabilitiesConfigEntry 2 }
60
61     wmanIf2eBsCapCfgExtendedRtpsSupport OBJECT-TYPE
62         SYNTAX      WmanIf2eExtRtpsSupport
63         MAX-ACCESS  read-write
64         STATUS      current

```

```

1      DESCRIPTION
2          "Indicates the availability of MS support for extended
3          rtPs."
4      REFERENCE
5          "Subclause 11.7.8.12 in IEEE Std 802.16e-2005"
6          ::= { wmanIf2eBsCapabilitiesConfigEntry 3 }
7
8      wmanIf2eBsCapCfgMaxNumBurstsToMs OBJECT-TYPE
9          SYNTAX      INTEGER (1..16)
10         MAX-ACCESS  read-write
11         STATUS      current
12         DESCRIPTION
13             "Maximum number of bursts transmitted concurrently to the MS
14             , including all bursts without CID or with CIDs matching
15             the MS CIDs."
16         REFERENCE
17             "Subclause 11.7.8.13 in IEEE Std 802.16e-2005"
18             ::= { wmanIf2eBsCapabilitiesConfigEntry 4 }
19
20     wmanIf2eBsCapCfgIpAddrAllocMethod OBJECT-TYPE
21         SYNTAX      WmanIf2eIpAllocMethod
22         MAX-ACCESS  read-write
23         STATUS      current
24         DESCRIPTION
25             "Indicates the method of allocating IP address for the
26             secondary management connection."
27         REFERENCE
28             "Subclause 11.7.11 in IEEE Std 802.16e-2005"
29             ::= { wmanIf2eBsCapabilitiesConfigEntry 5 }
30
31     wmanIf2eBsCapCfgHandoverSupported OBJECT-TYPE
32         SYNTAX      WmanIf2eHandoverType
33         MAX-ACCESS  read-write
34         STATUS      current
35         DESCRIPTION
36             "Indicates what type(s) of Handover the BS or MS supports."
37         REFERENCE
38             "Subclause 11.7.12 in IEEE Std 802.16e-2005"
39             ::= { wmanIf2eBsCapabilitiesConfigEntry 6 }
40
41     wmanIf2eBsCapCfgHoProcessTimer OBJECT-TYPE
42         SYNTAX      Unsigned32
43         UNITS      "frames"
44         MAX-ACCESS  read-write
45         STATUS      current
46         DESCRIPTION
47             "The duration in frames the MS shall wait until receipt of
48             the next unsolicited network re-entry MAC management
49             message as indicated in the HO Process Optimization
50             element of the RNG-RSP message."
51         REFERENCE
52             "Subclause 11.7.13.2 in IEEE Std 802.16e-2005"
53             ::= { wmanIf2eBsCapabilitiesConfigEntry 7 }
54
55     wmanIf2eBsCapCfgIdleModeTimeout OBJECT-TYPE
56         SYNTAX      Unsigned32
57         UNITS      "seconds"
58         MAX-ACCESS  read-write
59         STATUS      current
60         DESCRIPTION
61             "Max time interval between MS Idle Mode Location Updates."
62         REFERENCE
63             "Subclause 11.7.20.1 in IEEE Std 802.16e-2005"
64         DEFVAL      { 4096 }

```

```

1           ::= { wmanIf2eBsCapabilitiesConfigEntry 8 }
2
3   wmanIf2eBsCapCfgArqAckType OBJECT-TYPE
4       SYNTAX      WmanIf2eArqAckType
5       MAX-ACCESS  read-write
6       STATUS      current
7       DESCRIPTION
8           "The value of this parameter specifies the ARQ ACK type
9           supported by the MS."
10      REFERENCE
11          "Subclause 11.7.23 in IEEE Std 802.16e-2005"
12          ::= { wmanIf2eBsCapabilitiesConfigEntry 9 }
13
14   wmanIf2eBsCapCfgMacHeader OBJECT-TYPE
15       SYNTAX      WmanIf2eMacHeaderSupp
16       MAX-ACCESS  read-write
17       STATUS      current
18       DESCRIPTION
19           "Indicates whether or not the MS and BS support various
20           types of MAC header and extended subheaders."
21       REFERENCE
22          "Subclause 11.7.25 in IEEE Std 802.16e-2005"
23          ::= { wmanIf2eBsCapabilitiesConfigEntry 10 }
24
25

```

2.11 wmanIf2BsMsOfdmaReqCapabilitiesTable Change

```

26 [Replace the wmanIf2BsMsOfdmaReqCapabilitiesTable,
27   wmanIf2BsMsOfdmaRspCapabilitiesTable, wmanIf2BsOfdmaCapabilitiesTable,
28   wmanIf2BsOfdmaCapabilitiesConfigTable as the following:]
29
30
31   wmanIf2BsMsOfdmaReqCapabilitiesTable OBJECT-TYPE
32       SYNTAX      SEQUENCE OF WmanIf2BsMsOfdmaReqCapabilitiesEntry
33       MAX-ACCESS  not-accessible
34       STATUS      current
35       DESCRIPTION
36           "This table contains the basic capability information,
37           specific to OFDMA Phy, of MSs that have been reported by
38           MSs to BS using RNG-REQ, SBC-REQ and REG-REQ messages.
39           Entries in this table should be created when an MS
40           registers with a BS."
41          ::= { wmanIf2BsOfdmaPhy 5 }
42
43   wmanIf2BsMsOfdmaReqCapabilitiesEntry OBJECT-TYPE
44       SYNTAX      WmanIf2BsMsOfdmaReqCapabilitiesEntry
45       MAX-ACCESS  not-accessible
46       STATUS      current
47       DESCRIPTION
48           "This table provides one row for each MS that has been
49           registered in the BS. This table augments the table
50           wmanIf2BsRegisteredSsTable."
51           AUGMENTS { wmanIf2BsRegisteredSsEntry }
52          ::= { wmanIf2BsMsOfdmaReqCapabilitiesTable 1 }
53
54   WmanIf2BsMsOfdmaReqCapabilitiesEntry ::= SEQUENCE {
55       wmanIf2BsMsOfdmaReqCapFftSizes           WmanIf2OfdmaFftSizes,
56       wmanIf2BsMsOfdmaReqCapDemodulator        WmanIf2OfdmaMsDeModType,
57       wmanIf2BsMsOfdmaReqCapModulator         WmanIf2OfdmaMsModType,
58       wmanIf2eBsMsOfdmaReqCapNoHarqChannel    Unsigned32,
59       wmanIf2BsMsOfdmaReqCapPermutation        WmanIf2OfdmaPermutation,
60       wmanIf2eBsMsOfdmaReqCapMobilityFeature   WmanIf2eOfdmaMobility,
61       wmanIf2eBsMsOfdmaReqCapMaxMacLevelD1Fm  WmanIf2eMaxMacLevel,
62       wmanIf2eBsMsOfdmaReqCapMaxMacLevelUlFm  WmanIf2eMaxMacLevel,
```

```

1      wmanIf2eBsMsOfdmaReqCapDemMimo          WmanIf2eOfdmaDemMimo,
2      wmanIf2eBsMsOfdmaReqCapMimoCapability   WmanIf2eOfdmaMimoCap,
3      wmanIf2eBsMsOfdmaReqCapUlMimo          WmanIf2eOfdmaUlMimo,
4      wmanIf2eBsMsOfdmaReqCapPrivateMap       WmanIf2eOfdmaPrivMap,
5      wmanIf2eBsMsOfdmaReqCapPrivateMapChain  INTEGER,
6      wmanIf2eBsMsOfdmaReqCapAasCapability    WmanIf2eOfdmaAasCap,
7      wmanIf2eBsMsOfdmaReqCapCinrMesurement  WmanIf2eOfdmaCinrCap,
8      wmanIf2eBsMsOfdmaReqCapUlPowerControl   WmanIf2eOfdmaUlPower,
9      wmanIf2eBsMsOfdmaReqCapMapCapability    WmanIf2eOfdmaMapCap,
10     wmanIf2eBsMsOfdmaReqCapUlControlChannel WmanIf2eOfdmaUlCntlCh,
11     wmanIf2eBsMsOfdmaReqCapCistCapability   WmanIf2eOfdmaMsCistCap,
12     wmanIf2eBsMsOfdmaReqCapSoundigRspTime   INTEGER,
13     wmanIf2eBsMsOfdmaReqCapMaxSoundigInstr  INTEGER,
14     wmanIf2eBsMsOfdmaReqCapMaxUlHarqBurst   INTEGER,
15     wmanIf2eBsMsOfdmaReqCapMaxDlHarqBurst    WmanIf2eOfdmaModMimo,
16     wmanIf2eBsMsOfdmaReqCapModMimo          WmanIf2eSdmaPilotCap,
17     wmanIf2eBsMsOfdmaReqCapSdmaPilot        WmanIf2eMultiBurst,
18     wmanIf2eBsMsOfdmaReqCapMultipleBurst    WmanIf2eIncrHarqBuf,
19     wmanIf2eBsMsOfdmaReqCapIncrHarqBuffer   INTEGER,
20     wmanIf2eBsMsOfdmaReqCapIncrDlHarqBuffer  INTEGER,
21     wmanIf2eBsMsOfdmaReqCapIncrUlHarqBuffer WmanIf2eChaseHarqBuf,
22     wmanIf2eBsMsOfdmaReqCapChaseHarqBuffer  INTEGER,
23     wmanIf2eBsMsOfdmaReqCapChaseDlHarqBuf   INTEGER,
24     wmanIf2eBsMsOfdmaReqCapChaseUlHarqBuf   INTEGER}

25
26 wmanIf2BsMsOfdmaReqCapFftSizes OBJECT-TYPE
27   SYNTAX      WmanIf2OfdmaFftSizes
28   MAX-ACCESS  read-only
29   STATUS      current
30   DESCRIPTION
31     "This field indicates the FFT sizes supported by MS."
32     ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 1 }

33
34 wmanIf2BsMsOfdmaReqCapDemodulator OBJECT-TYPE
35   SYNTAX      WmanIf2OfdmaMsDeModType
36   MAX-ACCESS  read-only
37   STATUS      current
38   DESCRIPTION
39     "This field indicates the different demodulator options
40     supported by MS for downlink."
41     ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 2 }

42
43 wmanIf2BsMsOfdmaReqCapModulator OBJECT-TYPE
44   SYNTAX      WmanIf2OfdmaMsModType
45   MAX-ACCESS  read-only
46   STATUS      current
47   DESCRIPTION
48     "This field indicates the different modulator options
49     supported by MS for uplink."
50     ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 3 }

51
52 wmanIf2eBsMsOfdmaReqCapNoHarqChannel OBJECT-TYPE
53   SYNTAX      Unsigned32
54   MAX-ACCESS  read-only
55   STATUS      current
56   DESCRIPTION
57     "This field specifies the number of uplink H-ARQ
58     channels (n) the SS supports, where n = 1..16.
59     The value of this object should be 0..15."
60     ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 4 }

61
62 wmanIf2BsMsOfdmaReqCapPermutation OBJECT-TYPE
63   SYNTAX      WmanIf2OfdmaPermutation
64   MAX-ACCESS  read-only

```

```

1      STATUS      current
2      DESCRIPTION
3          "This field indicates the OFDMA MS Permutation support."
4          ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 5 }
5
6      wmanIf2eBsMsOfdmaReqCapMobilityFeature OBJECT-TYPE
7          SYNTAX      WmanIf2eOfdmaMobility
8          MAX-ACCESS  read-only
9          STATUS      current
10         DESCRIPTION
11            "The field indicates whether or not the MS supports
12              mobility hand-over, Sleepmode, and Idle-mode."
13            ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 6 }
14
15      wmanIf2eBsMsOfdmaReqCapMaxMacLevelDlFm OBJECT-TYPE
16          SYNTAX      WmanIf2eMaxMacLevel
17          MAX-ACCESS  read-only
18          STATUS      current
19          DESCRIPTION
20            "Maximum amount of MAC level data the MS is capable of
21              processing per DL frame."
22          REFERENCE
23            "Subclause 11.7.8.10.1 in IEEE Std 802.16e-2005"
24          DEFVAL      { 0 }
25          ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 7 }
26
27      wmanIf2eBsMsOfdmaReqCapMaxMacLevelUlFm OBJECT-TYPE
28          SYNTAX      WmanIf2eMaxMacLevel
29          MAX-ACCESS  read-only
30          STATUS      current
31          DESCRIPTION
32            "Maximum amount of MAC level data the MS is capable of
33              processing per UL frame."
34          REFERENCE
35            "Subclause 11.7.8.10.1 in IEEE Std 802.16e-2005"
36          DEFVAL      { 0 }
37          ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 8 }
38
39      wmanIf2eBsMsOfdmaReqCapDemMimo OBJECT-TYPE
40          SYNTAX      WmanIf2eOfdmaDemMimo
41          MAX-ACCESS  read-only
42          STATUS      current
43          DESCRIPTION
44            "This field indicates the different MIMO options supported
45              by a WirelessMAN-OFDMA PHY SS in the downlink."
46            ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 9 }
47
48      wmanIf2eBsMsOfdmaReqCapMimoCapability OBJECT-TYPE
49          SYNTAX      WmanIf2eOfdmaMimoCap
50          MAX-ACCESS  read-only
51          STATUS      current
52          DESCRIPTION
53            "This field indicates the MIMO capability of OFDMA MS
54              demodulator."
55            ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 10 }
56
57      wmanIf2eBsMsOfdmaReqCapUlMimo OBJECT-TYPE
58          SYNTAX      WmanIf2eOfdmaUlMimo
59          MAX-ACCESS  read-only
60          STATUS      current
61          DESCRIPTION
62            "This field indicates different MIMO options supported
63              by a OFDMA PHY SS in the uplink"
64          REFERENCE

```

```

1           "Subclause 11.8.3.7.6 in IEEE 802.16e"
2       ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 11 }
3
4   wmanIf2eBsMsOfdmaReqCapPrivateMap OBJECT-TYPE
5       SYNTAX      WmanIf2eOfdmaPrivMap
6       MAX-ACCESS  read-only
7       STATUS      current
8       DESCRIPTION
9           "This field indicates AAS private map parameters
10          supported by a OFDMA SS"
11       REFERENCE
12           "Subclause 11.8.3.7.7 in IEEE 802.16e"
13       ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 12 }
14
15   wmanIf2eBsMsOfdmaReqCapPrivateMapChain OBJECT-TYPE
16       SYNTAX      INTEGER (0..3)
17       MAX-ACCESS  read-only
18       STATUS      current
19       DESCRIPTION
20           "This field indicates how many parallel private map
21          chains can be supported by an SS.
22              0:    no limit
23              1..3: maximum concurrent private map chains"
24       REFERENCE
25           "Subclause 11.8.3.7.7 in IEEE 802.16e"
26       ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 13 }
27
28   wmanIf2eBsMsOfdmaReqCapAasCapability OBJECT-TYPE
29       SYNTAX      WmanIf2eOfdmaAasCap
30       MAX-ACCESS  read-only
31       STATUS      current
32       DESCRIPTION
33           "This field indicates different AAS options
34          supported by a OFDMA PHY SS in the downlink"
35       REFERENCE
36           "Subclause 11.8.3.7.8 in IEEE 802.16e"
37       ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 14 }
38
39   wmanIf2eBsMsOfdmaReqCapCinrMesurement OBJECT-TYPE
40       SYNTAX      WmanIf2eOfdmaCinrCap
41       MAX-ACCESS  read-only
42       STATUS      current
43       DESCRIPTION
44           "This field indicates the CINR measurement capability
45          supported by a OFDMA PHY SS in the downlink."
46       REFERENCE
47           "Subclause 11.8.3.7.9 in IEEE 802.16e"
48       ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 15 }
49
50   wmanIf2eBsMsOfdmaReqCapUlPowerControl OBJECT-TYPE
51       SYNTAX      WmanIf2eOfdmaUlPower
52       MAX-ACCESS  read-only
53       STATUS      current
54       DESCRIPTION
55           "This field indicates the power control options
56          supported by a OFDMA PHY SS for uplink transmission."
57       REFERENCE
58           "Subclause 11.8.3.7.11 in IEEE 802.16e"
59       ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 16 }
60
61   wmanIf2eBsMsOfdmaReqCapMapCapability OBJECT-TYPE
62       SYNTAX      WmanIf2eOfdmaMapCap
63       MAX-ACCESS  read-only
64       STATUS      current

```

```

1      DESCRIPTION
2          "This field indicates the different MAP options supported
3              by a OFDMA PHY SS"
4      REFERENCE
5          "Subclause 11.8.3.7.11 in IEEE 802.16e"
6          ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 17 }
7
8      wmanIf2eBsMsOfdmaReqCapUlControlChannel OBJECT-TYPE
9          SYNTAX      WmanIf2eOfdmaUlCntlCh
10         MAX-ACCESS  read-only
11         STATUS      current
12         DESCRIPTION
13             "This field indicates the different uplink control channels
14                 supported by a OFDMA PHY SS."
15         REFERENCE
16             "Subclause 11.8.3.7.13 in IEEE 802.16e"
17             ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 18 }
18
19      wmanIf2eBsMsOfdmaReqCapCistCapability OBJECT-TYPE
20         SYNTAX      WmanIf2eOfdmaMsCistCap
21         MAX-ACCESS  read-only
22         STATUS      current
23         DESCRIPTION
24             "This field indicates the MS capability of supporting CSIT
25                 (uplink sounding)."
26         REFERENCE
27             "Subclause 11.8.3.7.14 in IEEE 802.16e"
28             ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 19 }
29
30      wmanIf2eBsMsOfdmaReqCapSoundigRspTime OBJECT-TYPE
31         SYNTAX      INTEGER (0..7)
32         MAX-ACCESS  read-only
33         STATUS      current
34         DESCRIPTION
35             "This field derived from bit 3..5 of 'OFDMA MS CSIT
36                 capability' TLV indicates the time needed for SS to respond
37                 to a sounding command transmitted by the BS
38                 Bit 3..5
39                     000    0.5ms
40                     001    0.75ms
41                     010    1ms
42                     011    1.25ms
43                     100    1.5ms
44                     101    min(2ms, Next Frame)
45                     110    min(5ms, Next Frame)
46                     111    Next Frame"
47         REFERENCE
48             "Subclause 11.8.3.7.14 in IEEE 802.16e"
49             ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 20 }
50
51      wmanIf2eBsMsOfdmaReqCapMaxSoundigInstr OBJECT-TYPE
52         SYNTAX      INTEGER (0..15)
53         MAX-ACCESS  read-only
54         STATUS      current
55         DESCRIPTION
56             "This field derived from bit 6..9 of 'OFDMA MS CSIT
57                 capability' TLV indicates the maximum number of
58                 simultaneous sounding instructions (0 = unlimited)."
59         REFERENCE
60             "Subclause 11.8.3.7.14 in IEEE 802.16e"
61             ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 21 }
62
63      wmanIf2eBsMsOfdmaReqCapMaxUlHarqBurst OBJECT-TYPE
64         SYNTAX      INTEGER (0..15)

```

```

1      MAX-ACCESS  read-only
2      STATUS      current
3      DESCRIPTION
4          "This field derived from bit 0..3 of 'Maximum number of
5              burst per frame capability' TLV indicates the maximum
6              number of UL HARQ burst allocations per HARQ enabled MS
7              per UL subframe.
8                  Value 0..7 = 1..8 maximum HARQ bursts
9                  8..15 = 1..8 maximum HARQ bursts, but may
10                     include one non-HARQ burst"
11      REFERENCE
12          "Subclause 11.8.3.7.15 in IEEE 802.16e"
13      DEFVAL    { 0 }
14      ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 22 }

15      wmanIf2eBsMsOfdmaReqCapMaxDlHarqBurst OBJECT-TYPE
16          SYNTAX     INTEGER (0..15)
17          MAX-ACCESS  read-only
18          STATUS      current
19          DESCRIPTION
20              "This field derived from bit 4..7 of 'Maximum number of
21                  burst per frame capability' TLV indicates the maximum
22                  number of DL HARQ burst allocations per HARQ enabled MS
23                  per DL subframe.
24                  Value 0..15 = 1..16 maximum HARQ bursts"
25          REFERENCE
26              "Subclause 11.8.3.7.15 in IEEE 802.16e"
27          DEFVAL    { 0 }
28          ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 23 }

29      wmanIf2eBsMsOfdmaReqCapModMimo OBJECT-TYPE
30          SYNTAX     WmanIf2eOfdmaModMimo
31          MAX-ACCESS  read-only
32          STATUS      current
33          DESCRIPTION
34              "This field indicates the MIMO capability of OFDMA SS
35                  modulator."
36          REFERENCE
37              "Subclause 11.8.3.7.16 in IEEE 802.16e"
38          ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 24 }

39      wmanIf2eBsMsOfdmaReqCapSdmaPilot OBJECT-TYPE
40          SYNTAX     WmanIf2eSdmaPilotCap
41          MAX-ACCESS  read-only
42          STATUS      current
43          DESCRIPTION
44              "This field indicates the SDMA pilot pattern support
45                  for AMC zone."
46          REFERENCE
47              "Subclause 11.8.3.7.17 in IEEE 802.16e"
48          ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 25 }

49      wmanIf2eBsMsOfdmaReqCapMultipleBurst OBJECT-TYPE
50          SYNTAX     WmanIf2eMultiBurst
51          MAX-ACCESS  read-only
52          STATUS      current
53          DESCRIPTION
54              "This field indicates whether multiple FEC types are
55                  supported in DL/UL burst profiles."
56          REFERENCE
57              "Subclause 11.8.3.7.18 in IEEE 802.16e"
58          ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 26 }

59      wmanIf2eBsMsOfdmaReqCapIncrHarqBuffer OBJECT-TYPE
60
61
62
63
64

```

```

1      SYNTAX      WmanIf2eIncrHarqBuf
2      MAX-ACCESS  read-only
3      STATUS      current
4      DESCRIPTION
5          "This field indicates the maximal number of data
6          bits the SS is able to use for buffering for NEP/NSCH
7          based incremental redundancy CTC in downlink and uplink
8          transmissions."
9      REFERENCE
10         "Subclause 11.8.3.7.19.1 in IEEE 802.16e"
11         ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 27 }
12
13 wmanIf2eBsMsOfdmaReqCapIncrDlHarqBuffer OBJECT-TYPE
14     SYNTAX      INTEGER (0..15)
15     MAX-ACCESS  read-only
16     STATUS      current
17     DESCRIPTION
18         "This field derived from bit 0..3 of 'HARQ incremental
19         redundancy buffer capability' TLV indicates the NEP value
20         of DL HARQ buffering capability for incremental redundancy
21         CTC."
22     REFERENCE
23         "Subclause 11.8.3.7.19.1 in IEEE 802.16e"
24         ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 28 }
25
26 wmanIf2eBsMsOfdmaReqCapIncrUlHarqBuffer OBJECT-TYPE
27     SYNTAX      INTEGER (0..15)
28     MAX-ACCESS  read-only
29     STATUS      current
30     DESCRIPTION
31         "This field derived from bit 8..11 of 'HARQ incremental
32         redundancy buffer capability' TLV indicates the NEP value
33         of UL HARQ buffering capability for incremental redundancy
34         CTC."
35     REFERENCE
36         "Subclause 11.8.3.7.19.1 in IEEE 802.16e"
37         ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 29 }
38
39 wmanIf2eBsMsOfdmaReqCapChaseHarqBuffer OBJECT-TYPE
40     SYNTAX      WmanIf2eChaseHarqBuf
41     MAX-ACCESS  read-only
42     STATUS      current
43     DESCRIPTION
44         "This field indicates the maximal number of data
45         bits the SS is able to use for buffering for
46         DIUC/duration based HARQ methods (Chase combining and
47         CC-IR) in downlink and uplink transmissions."
48     REFERENCE
49         "Subclause 11.8.3.7.19.2 in IEEE 802.16e"
50         ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 30 }
51
52 wmanIf2eBsMsOfdmaReqCapChaseDlHarqBuf OBJECT-TYPE
53     SYNTAX      INTEGER (0..63)
54     MAX-ACCESS  read-only
55     STATUS      current
56     DESCRIPTION
57         "This field derived from bit 0..5 of 'HARQ Chase combining
58         and CC-IR buffer capability' indicates DL HARQ buffering
59         capability for chase combining (K)."
60     REFERENCE
61         "Subclause 11.8.3.7.19.2 in IEEE 802.16e"
62         ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 31 }
63
64 wmanIf2eBsMsOfdmaReqCapChaseUlHarqBuf OBJECT-TYPE

```

```

1      SYNTAX      INTEGER (0..63)
2      MAX-ACCESS  read-only
3      STATUS      current
4      DESCRIPTION
5          "This field derived from bit 8..13 of 'HARQ Chase combining
6          and CC-IR buffer capability' indicates UL HARQ buffering
7          capability for chase combining (K)."
8      REFERENCE
9          "Subclause 11.8.3.7.19.2 in IEEE 802.16e"
10         ::= { wmanIf2BsMsOfdmaReqCapabilitiesEntry 32 }
11
12 wmanIf2BsMsOfdmaRspCapabilitiesTable OBJECT-TYPE
13     SYNTAX      SEQUENCE OF WmanIf2BsMsOfdmaRspCapabilitiesEntry
14     MAX-ACCESS  not-accessible
15     STATUS      current
16     DESCRIPTION
17         "This table contains the basic capability information,
18         specific to OFDMA Phy, of MSs that have been reported by
19         MSs to BS using RNG-REQ, SBC-REQ and REG-REQ messages.
20         Entries in this table should be created when an MS
21         registers with a BS."
22         ::= { wmanIf2BsOfdmaPhy 6 }
23
24 wmanIf2BsMsOfdmaRspCapabilitiesEntry OBJECT-TYPE
25     SYNTAX      WmanIf2BsMsOfdmaRspCapabilitiesEntry
26     MAX-ACCESS  not-accessible
27     STATUS      current
28     DESCRIPTION
29         "This table provides one row for each MS that has been
30         registered in the BS. This table augments the table
31         wmanIf2BsRegisteredSsTable."
32     AUGMENTS { wmanIf2BsRegisteredSsEntry }
33         ::= { wmanIf2BsMsOfdmaRspCapabilitiesTable 1 }
34
35 WmanIf2BsMsOfdmaRspCapabilitiesEntry ::= SEQUENCE {
36     wmanIf2BsMsOfdmaRspCapFftSizes           WmanIf2OfdmaFftSizes,
37     wmanIf2BsMsOfdmaRspCapDemodulator        WmanIf2OfdmaMsDeModType,
38     wmanIf2BsMsOfdmaRspCapModulator         WmanIf2OfdmaMsModType,
39     wmanIf2BsMsOfdmaRspCapNoHarqChannel     Unsigned32,
40     wmanIf2BsMsOfdmaRspCapPermutation       WmanIf2OfdmaPermutation,
41     wmanIf2eBsMsOfdmaRspCapMobilityFeature   WmanIf2eOfdmaMobility,
42     wmanIf2eBsMsOfdmaRspCapMaxMacLevelD1Fm  WmanIf2eMaxMacLevel,
43     wmanIf2eBsMsOfdmaRspCapMaxMacLevelUlFm WmanIf2eMaxMacLevel,
44     wmanIf2eBsMsOfdmaRspCapDemMimo          WmanIf2eOfdmaDemMimo,
45     wmanIf2eBsMsOfdmaRspCapMimoCapability    WmanIf2eOfdmaMimoCap,
46     wmanIf2eBsMsOfdmaRspCapUlMimo           WmanIf2eOfdmaULMimo,
47     wmanIf2eBsMsOfdmaRspCapPrivateMap        WmanIf2eOfdmaPrivMap,
48     wmanIf2eBsMsOfdmaRspCapPrivateMap        WmanIf2eOfdmaPrivMap,
49     wmanIf2eBsMsOfdmaRspCapPrivateMapChain   INTEGER,
50     wmanIf2eBsMsOfdmaRspCapAasCapability     WmanIf2eOfdmaAasCap,
51     wmanIf2eBsMsOfdmaRspCapCinrMesurement   WmanIf2eOfdmaCinrCap,
52     wmanIf2eBsMsOfdmaRspCapUlPowerControl   WmanIf2eOfdmaUlPower,
53     wmanIf2eBsMsOfdmaRspCapMapCapability     WmanIf2eOfdmaMapCap,
54     wmanIf2eBsMsOfdmaRspCapUlControlChannel WmanIf2eOfdmaUlCntlCh,
55     wmanIf2eBsMsOfdmaRspCapCistCapability    WmanIf2eOfdmaMsCistCap,
56     wmanIf2eBsMsOfdmaRspCapSoundigRspTime   INTEGER,
57     wmanIf2eBsMsOfdmaRspCapMaxSoundigInstr  INTEGER,
58     wmanIf2eBsMsOfdmaRspCapMaxUlHarqBurst   INTEGER,
59     wmanIf2eBsMsOfdmaRspCapMaxDlHarqBurst   INTEGER,
60     wmanIf2eBsMsOfdmaRspCapModMimo          WmanIf2eOfdmaModMimo,
61     wmanIf2eBsMsOfdmaRspCapSdmaPilot        WmanIf2eSdmaPilotCap,
62     wmanIf2eBsMsOfdmaRspCapMultipleBurst    WmanIf2eMultiBurst,
63     wmanIf2eBsMsOfdmaRspCapIncrHarqBuffer   WmanIf2eIncrHarqBuf,
64     wmanIf2eBsMsOfdmaRspCapIncrDlHarqBuffer INTEGER,

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1      wmanIf2eBsMsOfdmaRspCapIncrUlHarqBuffer INTEGER,
2      wmanIf2eBsMsOfdmaRspCapChaseHarqBuffer WmanIf2eChaseHarqBuf,
3      wmanIf2eBsMsOfdmaRspCapChaseDlHarqBuf INTEGER,
4      wmanIf2eBsMsOfdmaRspCapChaseUlHarqBuf INTEGER}
5
6  wmanIf2BsMsOfdmaRspCapFftSizes OBJECT-TYPE
7      SYNTAX      WmanIf2OfdmaFftSizes
8      MAX-ACCESS  read-only
9      STATUS      current
10     DESCRIPTION
11         "This field indicates the FFT sizes negotiated with the
12         MS."
13     ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 1 }
14
15  wmanIf2BsMsOfdmaRspCapDemodulator OBJECT-TYPE
16      SYNTAX      WmanIf2OfdmaMsDeModType
17      MAX-ACCESS  read-only
18      STATUS      current
19     DESCRIPTION
20         "This field indicates the different demodulator options
21         negotiated for MS for downlink."
22     ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 2 }
23
24  wmanIf2BsMsOfdmaRspCapModulator OBJECT-TYPE
25      SYNTAX      WmanIf2OfdmaMsModType
26      MAX-ACCESS  read-only
27      STATUS      current
28     DESCRIPTION
29         "This field indicates the different modulator options
30         negotiated for MS for uplink."
31     ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 3 }
32
33  wmanIf2BsMsOfdmaRspCapNoHarqChannel OBJECT-TYPE
34      SYNTAX      Unsigned32
35      MAX-ACCESS  read-only
36      STATUS      current
37     DESCRIPTION
38         "This field specifies the number of uplink H-ARQ
39         channels (n) the SS supports, where n = 1..16.
40         The value of this object should be 0..15."
41     ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 4 }
42
43  wmanIf2BsMsOfdmaRspCapPermutation OBJECT-TYPE
44      SYNTAX      WmanIf2OfdmaPermutation
45      MAX-ACCESS  read-only
46      STATUS      current
47     DESCRIPTION
48         "This field indicates the OFDMA MS Permutation support
49         negotiated for MS."
50     ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 5 }
51
52  wmanIf2eBsMsOfdmaRspCapMobilityFeature OBJECT-TYPE
53      SYNTAX      WmanIf2eOfdmaMobility
54      MAX-ACCESS  read-only
55      STATUS      current
56     DESCRIPTION
57         "The field indicates the mobility hand-over, Sleepmode,
58         and Idle-mode negotiated for MS."
59     ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 6 }
60
61  wmanIf2eBsMsOfdmaRspCapMaxMacLevelDlFm OBJECT-TYPE
62      SYNTAX      WmanIf2eMaxMacLevel
63      MAX-ACCESS  read-only
64      STATUS      current

```

```

1      DESCRIPTION
2          "Maximum amount of MAC level data the MS is capable of
3              processing per DL frame. A value of 0 indicates such
4                  limitation does not exist, except the limitation of
5                      the physical medium"
6      REFERENCE
7          "Subclause 11.7.8.10.1 in IEEE Std 802.16e-2005"
8      DEFVAL    { 0 }
9      ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 7 }

10     wmanIf2eBsMsOfdmaRspCapMaxMacLevelULFm OBJECT-TYPE
11         SYNTAX      WmanIf2eMaxMacLevel
12         MAX-ACCESS  read-only
13         STATUS      current
14         DESCRIPTION
15             "Maximum amount of MAC level data the MS is capable of
16                 processing per UL frame. A value of 0 indicates such
17                     limitation does not exist, except the limitation of
18                         the physical medium"
19         REFERENCE
20             "Subclause 11.7.8.10.1 in IEEE Std 802.16e-2005"
21         DEFVAL    { 0 }
22         ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 8 }

23     wmanIf2eBsMsOfdmaRspCapDemMimo OBJECT-TYPE
24         SYNTAX      WmanIf2eOfdmaDemMimo
25         MAX-ACCESS  read-only
26         STATUS      current
27         DESCRIPTION
28             "This field indicates the different MIMO options supported
29                 by a WirelessMAN-OFDMA PHY SS in the downlink."
30             ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 9 }

31     wmanIf2eBsMsOfdmaRspCapMimoCapability OBJECT-TYPE
32         SYNTAX      WmanIf2eOfdmaMimoCap
33         MAX-ACCESS  read-only
34         STATUS      current
35         DESCRIPTION
36             "This field indicates the MIMO capability of OFDMA MS
37                 demodulator."
38             ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 10 }

39     wmanIf2eBsMsOfdmaRspCapUlMimo OBJECT-TYPE
40         SYNTAX      WmanIf2eOfdmaUlMimo
41         MAX-ACCESS  read-only
42         STATUS      current
43         DESCRIPTION
44             "This field indicates different MIMO options supported
45                 by a OFDMA PHY SS in the uplink"
46         REFERENCE
47             "Subclause 11.8.3.7.6 in IEEE 802.16e"
48             ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 11 }

49     wmanIf2eBsMsOfdmaRspCapPrivateMap OBJECT-TYPE
50         SYNTAX      WmanIf2eOfdmaPrivMap
51         MAX-ACCESS  read-only
52         STATUS      current
53         DESCRIPTION
54             "This field indicates AAS private map parameters
55                 supported by a OFDMA SS"
56         REFERENCE
57             "Subclause 11.8.3.7.7 in IEEE 802.16e"
58             ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 12 }
59
60
61
62
63
64

```

```

1   wmanIf2eBsMsOfdmaRspCapPrivateMapChain OBJECT-TYPE
2       SYNTAX      INTEGER (0..3)
3       MAX-ACCESS  read-only
4       STATUS      current
5       DESCRIPTION
6           "This field indicates how many parallel private map
7           chains can be supported by an SS.
8               0:    no limit
9               1..3: maximum concurrent private map chains"
10      REFERENCE
11          "Subclause 11.8.3.7.7 in IEEE 802.16e"
12          ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 13 }
13
14      wmanIf2eBsMsOfdmaRspCapAasCapability OBJECT-TYPE
15          SYNTAX      WmanIf2eOfdmaAasCap
16          MAX-ACCESS  read-only
17          STATUS      current
18          DESCRIPTION
19              "This field indicates different AAS options
20                  supported by a OFDMA PHY SS in the downlink"
21          REFERENCE
22              "Subclause 11.8.3.7.8 in IEEE 802.16e"
23              ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 14 }
24
25      wmanIf2eBsMsOfdmaRspCapCinrMesurement OBJECT-TYPE
26          SYNTAX      WmanIf2eOfdmaCinrCap
27          MAX-ACCESS  read-only
28          STATUS      current
29          DESCRIPTION
30              "This field indicates the CINR measurement capability
31                  supported by a OFDMA PHY SS in the downlink."
32          REFERENCE
33              "Subclause 11.8.3.7.9 in IEEE 802.16e"
34              ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 15 }
35
36      wmanIf2eBsMsOfdmaRspCapUlPowerControl OBJECT-TYPE
37          SYNTAX      WmanIf2eOfdmaUlPower
38          MAX-ACCESS  read-only
39          STATUS      current
40          DESCRIPTION
41              "This field indicates the power control options
42                  supported by a OFDMA PHY SS for uplink transmission."
43          REFERENCE
44              "Subclause 11.8.3.7.11 in IEEE 802.16e"
45              ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 16 }
46
47      wmanIf2eBsMsOfdmaRspCapMapCapability OBJECT-TYPE
48          SYNTAX      WmanIf2eOfdmaMapCap
49          MAX-ACCESS  read-only
50          STATUS      current
51          DESCRIPTION
52              "This field indicates the different MAP options supported
53                  by a OFDMA PHY SS"
54          REFERENCE
55              "Subclause 11.8.3.7.11 in IEEE 802.16e"
56              ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 17 }
57
58      wmanIf2eBsMsOfdmaRspCapUlControlChannel OBJECT-TYPE
59          SYNTAX      WmanIf2eOfdmaUlCntlCh
60          MAX-ACCESS  read-only
61          STATUS      current
62          DESCRIPTION
63              "This field indicates the different uplink control channels
64                  supported by a OFDMA PHY SS."

```

```

1      REFERENCE
2          "Subclause 11.8.3.7.13 in IEEE 802.16e"
3          ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 18 }
4
5      wmanIf2eBsMsOfdmaRspCapCistCapability OBJECT-TYPE
6          SYNTAX      WmanIf2eOfdmaMsCistCap
7          MAX-ACCESS  read-only
8          STATUS      current
9          DESCRIPTION
10         "This field indicates the MS capability of supporting CSIT
11         (uplink sounding)."
12         REFERENCE
13         "Subclause 11.8.3.7.14 in IEEE 802.16e"
14         ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 19 }
15
16      wmanIf2eBsMsOfdmaRspCapSoundigRspTime OBJECT-TYPE
17          SYNTAX      INTEGER (0..7)
18          MAX-ACCESS  read-only
19          STATUS      current
20          DESCRIPTION
21         "This field derived from bit 3..5 of 'OFDMA MS CSIT
22         capability' TLV indicates the time needed for SS to respond
23         to a sounding command transmitted by the BS
24             Bit 3..5
25                 000    0.5ms
26                 001    0.75ms
27                 010    1ms
28                 011    1.25ms
29                 100    1.5ms
30                 101    min(2ms, Next Frame)
31                 110    min(5ms, Next Frame)
32                 111    Next Frame"
33         REFERENCE
34         "Subclause 11.8.3.7.14 in IEEE 802.16e"
35         ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 20 }
36
37      wmanIf2eBsMsOfdmaRspCapMaxSoundigInstr OBJECT-TYPE
38          SYNTAX      INTEGER (0..15)
39          MAX-ACCESS  read-only
40          STATUS      current
41          DESCRIPTION
42         "This field derived from bit 6..9 of 'OFDMA MS CSIT
43         capability' TLV indicates the maximum number of
44         simultaneous sounding instructions (0 = unlimited)."
45         REFERENCE
46         "Subclause 11.8.3.7.14 in IEEE 802.16e"
47         ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 21 }
48
49      wmanIf2eBsMsOfdmaRspCapMaxUlHarqBurst OBJECT-TYPE
50          SYNTAX      INTEGER (0..15)
51          MAX-ACCESS  read-only
52          STATUS      current
53          DESCRIPTION
54         "This field derived from bit 0..3 of 'Maximum number of
55         burst per frame capability' TLV indicates the maximum
56         number of UL HARQ burst allocations per HARQ enabled MS
57         per UL subframe.
58             Value 0..7 = 1..8 maximum HARQ bursts
59             8..15 = 1..8 maximum HARQ bursts, but may
60             include one non-HARQ burst"
61         REFERENCE
62         "Subclause 11.8.3.7.15 in IEEE 802.16e"
63         DEFVAL     { 0 }
64         ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 22 }

```

```

1      wmanIf2eBsMsOfdmaRspCapMaxDlHarqBurst OBJECT-TYPE
2          SYNTAX      INTEGER (0..15)
3          MAX-ACCESS  read-only
4          STATUS      current
5          DESCRIPTION
6              "This field derived from bit 4..7 of 'Maximum number of
7                  burst per frame capability' TLV indicates the maximum
8                  number of DL HARQ burst allocations per HARQ enabled MS
9                  per DL subframe.
10                 Value 0..15 = 1..16 maximum HARQ bursts"
11
12             REFERENCE
13                 "Subclause 11.8.3.7.15 in IEEE 802.16e"
14                 DEFVAL      { 0 }
15                 ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 23 }
16
17     wmanIf2eBsMsOfdmaRspCapModMimo OBJECT-TYPE
18         SYNTAX      WmanIf2eOfdmaModMimo
19         MAX-ACCESS  read-only
20         STATUS      current
21         DESCRIPTION
22             "This field indicates the MIMO capability of OFDMA SS
23                 modulator."
24             REFERENCE
25                 "Subclause 11.8.3.7.16 in IEEE 802.16e"
26                 ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 24 }
27
28     wmanIf2eBsMsOfdmaRspCapSdmaPilot OBJECT-TYPE
29         SYNTAX      WmanIf2eSdmaPilotCap
30         MAX-ACCESS  read-only
31         STATUS      current
32         DESCRIPTION
33             "This field indicates the SDMA pilot pattern support
34                 for AMC zone."
35             REFERENCE
36                 "Subclause 11.8.3.7.17 in IEEE 802.16e"
37                 ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 25 }
38
39     wmanIf2eBsMsOfdmaRspCapMultipleBurst OBJECT-TYPE
40         SYNTAX      WmanIf2eMultiBurst
41         MAX-ACCESS  read-only
42         STATUS      current
43         DESCRIPTION
44             "This field indicates whether multiple FEC types are
45                 supported in DL/UL burst profiles."
46             REFERENCE
47                 "Subclause 11.8.3.7.18 in IEEE 802.16e"
48                 ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 26 }
49
50     wmanIf2eBsMsOfdmaRspCapIncrHarqBuffer OBJECT-TYPE
51         SYNTAX      WmanIf2eIncrHarqBuf
52         MAX-ACCESS  read-only
53         STATUS      current
54         DESCRIPTION
55             "This field indicates the maximal number of data
56                 bits the SS is able to use for buffering for NEP/NSCH
57                 based incremental redundancy CTC in downlink and uplink
58                 transmissions."
59             REFERENCE
60                 "Subclause 11.8.3.7.19.1 in IEEE 802.16e"
61                 ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 27 }
62
63     wmanIf2eBsMsOfdmaRspCapIncrDlHarqBuffer OBJECT-TYPE
64         SYNTAX      INTEGER (0..15)

```

```

1      MAX-ACCESS  read-only
2      STATUS      current
3      DESCRIPTION
4          "This field derived from bit 0..3 of 'HARQ incremental
5              redundancy buffer capability' TLV indicates the NEP value
6              of DL HARQ buffering capability for incremental redundancy
7              CTC."
8      REFERENCE
9          "Subclause 11.8.3.7.19.1 in IEEE 802.16e"
10         ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 28 }
11
12     wmanIf2eBsMsOfdmaRspCapIncrUlHarqBuffer OBJECT-TYPE
13         SYNTAX      INTEGER (0..15)
14         MAX-ACCESS  read-only
15         STATUS      current
16         DESCRIPTION
17             "This field derived from bit 8..11 of 'HARQ incremental
18                 redundancy buffer capability' TLV indicates the NEP value
19                 of UL HARQ buffering capability for incremental redundancy
20                 CTC."
21         REFERENCE
22             "Subclause 11.8.3.7.19.1 in IEEE 802.16e"
23             ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 29 }
24
25     wmanIf2eBsMsOfdmaRspCapChaseHarqBuffer OBJECT-TYPE
26         SYNTAX      WmanIf2eChaseHarqBuf
27         MAX-ACCESS  read-only
28         STATUS      current
29         DESCRIPTION
30             "This field indicates the maximal number of data
31                 bits the SS is able to use for buffering for
32                 DIUC/duration based HARQ methods (Chase combining and
33                 CC-IR) in downlink and uplink transmissions."
34         REFERENCE
35             "Subclause 11.8.3.7.19.2 in IEEE 802.16e"
36             ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 30 }
37
38     wmanIf2eBsMsOfdmaRspCapChaseDlHarqBuf OBJECT-TYPE
39         SYNTAX      INTEGER (0..63)
40         MAX-ACCESS  read-only
41         STATUS      current
42         DESCRIPTION
43             "This field derived from bit 0..5 of 'HARQ Chase combining
44                 and CC-IR buffer capability' indicates DL HARQ buffering
45                 capability for chase combining (K)."
46         REFERENCE
47             "Subclause 11.8.3.7.19.2 in IEEE 802.16e"
48             ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 31 }
49
50     wmanIf2eBsMsOfdmaRspCapChaseUlHarqBuf OBJECT-TYPE
51         SYNTAX      INTEGER (0..63)
52         MAX-ACCESS  read-only
53         STATUS      current
54         DESCRIPTION
55             "This field derived from bit 8..13 of 'HARQ Chase combining
56                 and CC-IR buffer capability' indicates UL HARQ buffering
57                 capability for chase combining (K)."
58         REFERENCE
59             "Subclause 11.8.3.7.19.2 in IEEE 802.16e"
60             ::= { wmanIf2BsMsOfdmaRspCapabilitiesEntry 32 }
61
62     wmanIf2BsOfdmaCapabilitiesTable OBJECT-TYPE
63         SYNTAX      SEQUENCE OF WmanIf2BsOfdmaCapabilitiesEntry
64         MAX-ACCESS  not-accessible

```

```

1      STATUS      current
2      DESCRIPTION
3          "This table contains the basic capabilities, specific to
4              OFDMA Phy, of the BS as implemented in BS hardware and
5              software. These capabilities along with the configuration
6              for them (wmanIf2BsOfdmaCapabilitiesConfigTable) are used
7              for negotiation of basic capabilities with SS using
8              RNG-RSP, SBC-RSP and REG-RSP messages. The negotiated
9              capabilities are obtained by interSubclause of MS raw
10             reported capabilities, BS raw capabilities and BS
11             configured capabilities. The objects in the table have
12             read-only access. The table is maintained by BS."
13             ::= { wmanIf2BsOfdmaPhy 7 }

14
15     wmanIf2BsOfdmaCapabilitiesEntry OBJECT-TYPE
16         SYNTAX      WmanIf2BsOfdmaCapabilitiesEntry
17         MAX-ACCESS  not-accessible
18         STATUS      current
19         DESCRIPTION
20             "This table provides one row for each BS sector and is
21             indexed by ifIndex."
22             INDEX { ifIndex }
23             ::= { wmanIf2BsOfdmaCapabilitiesTable 1 }

24
25     WmanIf2BsOfdmaCapabilitiesEntry ::= SEQUENCE {
26         wmanIf2BsOfdmaCapFftSizes
27         wmanIf2BsOfdmaCapDemodulator
28         wmanIf2BsOfdmaCapModulator
29         wmanIf2BsOfdmaCapNoHarqChannel
30         wmanIf2BsOfdmaCapPermutation
31         wmanIf2eBsOfdmaCapMobilityFeature
32         wmanIf2eBsOfdmaCapMaxMacLevelDlFm
33         wmanIf2eBsOfdmaCapMaxMacLevelUlFm
34         wmanIf2eBsOfdmaCapDemMimo
35         wmanIf2eBsOfdmaCapMimoCapability
36         wmanIf2eBsOfdmaCapUlMimo
37         wmanIf2eBsOfdmaCapPrivateMap
38         wmanIf2eBsOfdmaCapPrivateMapChain
39         wmanIf2eBsOfdmaCapAasCapability
40         wmanIf2eBsOfdmaCapCinrMesurement
41         wmanIf2eBsOfdmaCapUlPowerControl
42         wmanIf2eBsOfdmaCapMapCapability
43         wmanIf2eBsOfdmaCapUlControlChannel
44         wmanIf2eBsOfdmaCapCistCapability
45         wmanIf2eBsOfdmaCapSoundigRspTime
46         wmanIf2eBsOfdmaCapMaxSoundigInstr
47         wmanIf2eBsOfdmaCapMaxUlHarqBurst
48         wmanIf2eBsOfdmaCapMaxDlHarqBurst
49         wmanIf2eBsOfdmaCapModMimo
50         wmanIf2eBsOfdmaCapSdmaPilot
51         wmanIf2eBsOfdmaCapMultipleBurst
52         wmanIf2eBsOfdmaCapIncrHarqBuffer
53         wmanIf2eBsOfdmaCapIncrDlHarqBuffer
54         wmanIf2eBsOfdmaCapIncrUlHarqBuffer
55         wmanIf2eBsOfdmaCapChaseHarqBuffer
56         wmanIf2eBsOfdmaCapChaseDlHarqBuf
57         wmanIf2eBsOfdmaCapChaseUlHarqBuf
58
59         wmanIf2BsOfdmaCapFftSizes OBJECT-TYPE
60             SYNTAX      WmanIf2OfdmaFftSizes
61             MAX-ACCESS  read-only
62             STATUS      current
63             DESCRIPTION
64                 "This field indicates the FFT sizes supported by BS."

```

```

1           ::= { wmanIf2BsOfdmaCapabilitiesEntry 1 }
2
3   wmanIf2BsOfdmaCapDemodulator OBJECT-TYPE
4       SYNTAX      WmanIf2OfdmaMsDeModType
5       MAX-ACCESS  read-only
6       STATUS      current
7       DESCRIPTION
8           "This field indicates the different demodulator options
9           supported by BS."
10      ::= { wmanIf2BsOfdmaCapabilitiesEntry 2 }
11
12  wmanIf2BsOfdmaCapModulator OBJECT-TYPE
13      SYNTAX      WmanIf2OfdmaMsModType
14      MAX-ACCESS  read-only
15      STATUS      current
16      DESCRIPTION
17          "This field indicates the different modulator options
18          supported by BS."
19      ::= { wmanIf2BsOfdmaCapabilitiesEntry 3 }
20
21  wmanIf2BsOfdmaCapNoHarqChannel OBJECT-TYPE
22      SYNTAX      Unsigned32
23      MAX-ACCESS  read-only
24      STATUS      current
25      DESCRIPTION
26          "This field specifies the number of uplink H-ARQ
27          channels (n) the SS supports, where n = 1..16.
28          The value of this object should be 0..15."
29      ::= { wmanIf2BsOfdmaCapabilitiesEntry 4 }
30
31  wmanIf2BsOfdmaCapPermutation OBJECT-TYPE
32      SYNTAX      WmanIf2OfdmaPermutation
33      MAX-ACCESS  read-only
34      STATUS      current
35      DESCRIPTION
36          "This field indicates the OFDMA MS Permutation support
37          supported by BS."
38      ::= { wmanIf2BsOfdmaCapabilitiesEntry 5 }
39
40  wmanIf2eBsOfdmaCapMobilityFeature OBJECT-TYPE
41      SYNTAX      WmanIf2eOfdmaMobility
42      MAX-ACCESS  read-only
43      STATUS      current
44      DESCRIPTION
45          "The field indicates the mobility hand-over, Sleepmode,
46          and Idle-mode supported by BS."
47      ::= { wmanIf2BsOfdmaCapabilitiesEntry 6 }
48
49  wmanIf2eBsOfdmaCapMaxMacLevelDlFm OBJECT-TYPE
50      SYNTAX      WmanIf2eMaxMacLevel
51      MAX-ACCESS  read-only
52      STATUS      current
53      DESCRIPTION
54          "Maximum amount of MAC level data the MS is capable of
55          processing per DL frame. A value of 0 indicates such
56          limitation does not exist, except the limitation of
57          the physical medium"
58      REFERENCE
59          "Subclause 11.7.8.10.1 in IEEE Std 802.16e-2005"
60      DEFVAL     { 0 }
61      ::= { wmanIf2BsOfdmaCapabilitiesEntry 7 }
62
63  wmanIf2eBsOfdmaCapMaxMacLevelUlFm OBJECT-TYPE
64      SYNTAX      WmanIf2eMaxMacLevel

```

```

1      MAX-ACCESS  read-only
2      STATUS      current
3      DESCRIPTION
4          "Maximum amount of MAC level data the MS is capable of
5              processing per UL frame. A value of 0 indicates such
6              limitation does not exist, except the limitation of
7              the physical medium"
8      REFERENCE
9          "Subclause 11.7.8.10.1 in IEEE Std 802.16e-2005"
10     DEFVAL    { 0 }
11     ::= { wmanIf2BsOfdmaCapabilitiesEntry 8 }

12     wmanIf2eBsOfdmaCapDemMimo OBJECT-TYPE
13         SYNTAX      WmanIf2eOfdmaDemMimo
14         MAX-ACCESS  read-only
15         STATUS      current
16         DESCRIPTION
17             "This field indicates the different MIMO options supported
18                 by a WirelessMAN-OFDMA PHY SS in the downlink."
20     ::= { wmanIf2BsOfdmaCapabilitiesEntry 9 }

21     wmanIf2eBsOfdmaCapMimoCapability OBJECT-TYPE
22         SYNTAX      WmanIf2eOfdmaMimoCap
23         MAX-ACCESS  read-only
24         STATUS      current
25         DESCRIPTION
26             "This field indicates the MIMO capability of OFDMA MS
27                 demodulator."
29     ::= { wmanIf2BsOfdmaCapabilitiesEntry 10 }

30     wmanIf2eBsOfdmaCapUlMimo OBJECT-TYPE
31         SYNTAX      WmanIf2eOfdmaUlMimo
32         MAX-ACCESS  read-only
33         STATUS      current
34         DESCRIPTION
35             "This field indicates different MIMO options supported
36                 by a OFDMA PHY SS in the uplink"
38         REFERENCE
39             "Subclause 11.8.3.7.6 in IEEE 802.16e"
40     ::= { wmanIf2BsOfdmaCapabilitiesEntry 11 }

41     wmanIf2eBsOfdmaCapPrivateMap OBJECT-TYPE
42         SYNTAX      WmanIf2eOfdmaPrivMap
43         MAX-ACCESS  read-only
44         STATUS      current
45         DESCRIPTION
46             "This field indicates AAS private map parameters
47                 supported by a OFDMA SS"
49         REFERENCE
50             "Subclause 11.8.3.7.7 in IEEE 802.16e"
51     ::= { wmanIf2BsOfdmaCapabilitiesEntry 12 }

52     wmanIf2eBsOfdmaCapPrivateMapChain OBJECT-TYPE
53         SYNTAX      INTEGER (0..3)
54         MAX-ACCESS  read-only
55         STATUS      current
56         DESCRIPTION
57             "This field indicates how many parallel private map
58                 chains can be supported by an SS.
59                     0: no limit
60                     1..3: maximum concurrent private map chains"
62         REFERENCE
63             "Subclause 11.8.3.7.7 in IEEE 802.16e"
64     ::= { wmanIf2BsOfdmaCapabilitiesEntry 13 }

```

```

1      wmanIf2eBsOfdmaCapAasCapability OBJECT-TYPE
2          SYNTAX      WmanIf2eOfdmaAasCap
3          MAX-ACCESS  read-only
4          STATUS      current
5          DESCRIPTION
6              "This field indicates different AAS options
7                  supported by a OFDMA PHY SS in the downlink"
8          REFERENCE
9              "Subclause 11.8.3.7.8 in IEEE 802.16e"
10             ::= { wmanIf2BsOfdmaCapabilitiesEntry 14 }
11
12      wmanIf2eBsOfdmaCapCinrMesurement OBJECT-TYPE
13          SYNTAX      WmanIf2eOfdmaCinrCap
14          MAX-ACCESS  read-only
15          STATUS      current
16          DESCRIPTION
17              "This field indicates the CINR measurement capability
18                  supported by a OFDMA PHY SS in the downlink."
19          REFERENCE
20              "Subclause 11.8.3.7.9 in IEEE 802.16e"
21             ::= { wmanIf2BsOfdmaCapabilitiesEntry 15 }
22
23      wmanIf2eBsOfdmaCapUlPowerControl OBJECT-TYPE
24          SYNTAX      WmanIf2eOfdmaUlPower
25          MAX-ACCESS  read-only
26          STATUS      current
27          DESCRIPTION
28              "This field indicates the power control options
29                  supported by a OFDMA PHY SS for uplink transmission."
30          REFERENCE
31              "Subclause 11.8.3.7.11 in IEEE 802.16e"
32             ::= { wmanIf2BsOfdmaCapabilitiesEntry 16 }
33
34      wmanIf2eBsOfdmaCapMapCapability OBJECT-TYPE
35          SYNTAX      WmanIf2eOfdmaMapCap
36          MAX-ACCESS  read-only
37          STATUS      current
38          DESCRIPTION
39              "This field indicates the different MAP options supported
40                  by a OFDMA PHY SS"
41          REFERENCE
42              "Subclause 11.8.3.7.11 in IEEE 802.16e"
43             ::= { wmanIf2BsOfdmaCapabilitiesEntry 17 }
44
45      wmanIf2eBsOfdmaCapUlControlChannel OBJECT-TYPE
46          SYNTAX      WmanIf2eOfdmaUlCntlCh
47          MAX-ACCESS  read-only
48          STATUS      current
49          DESCRIPTION
50              "This field indicates the different uplink control channels
51                  supported by a OFDMA PHY SS."
52          REFERENCE
53              "Subclause 11.8.3.7.13 in IEEE 802.16e"
54             ::= { wmanIf2BsOfdmaCapabilitiesEntry 18 }
55
56      wmanIf2eBsOfdmaCapCistCapability OBJECT-TYPE
57          SYNTAX      WmanIf2eOfdmaMsCistCap
58          MAX-ACCESS  read-only
59          STATUS      current
60          DESCRIPTION
61              "This field indicates the MS capability of supporting CSIT
62                  (uplink sounding)."
63          REFERENCE
64

```

```

1           "Subclause 11.8.3.7.14 in IEEE 802.16e"
2   ::= { wmanIf2BsOfdmaCapabilitiesEntry 19 }
3
4   wmanIf2eBsOfdmaCapSoundigRspTime OBJECT-TYPE
5       SYNTAX      INTEGER (0..7)
6       MAX-ACCESS  read-only
7       STATUS      current
8       DESCRIPTION
9           "This field derived from bit 3..5 of 'OFDMA MS CSIT
10          capability' TLV indicates the time needed for SS to respond
11          to a sounding command transmitted by the BS
12          Bit 3..5
13              000    0.5ms
14              001    0.75ms
15              010    1ms
16              011    1.25ms
17              100    1.5ms
18              101    min(2ms, Next Frame)
19              110    min(5ms, Next Frame)
20              111    Next Frame"
21       REFERENCE
22           "Subclause 11.8.3.7.14 in IEEE 802.16e"
23   ::= { wmanIf2BsOfdmaCapabilitiesEntry 20 }
24
25   wmanIf2eBsOfdmaCapMaxSoundigInstr OBJECT-TYPE
26       SYNTAX      INTEGER (0..15)
27       MAX-ACCESS  read-only
28       STATUS      current
29       DESCRIPTION
30           "This field derived from bit 6..9 of 'OFDMA MS CSIT
31          capability' TLV indicates the maximum number of
32          simultaneous sounding instructions (0 = unlimited)."
33       REFERENCE
34           "Subclause 11.8.3.7.14 in IEEE 802.16e"
35   ::= { wmanIf2BsOfdmaCapabilitiesEntry 21 }
36
37   wmanIf2eBsOfdmaCapMaxUlHrqBurst OBJECT-TYPE
38       SYNTAX      INTEGER (0..15)
39       MAX-ACCESS  read-only
40       STATUS      current
41       DESCRIPTION
42           "This field derived from bit 0..3 of 'Maximum number of
43          burst per frame capability' TLV indicates the maximum
44          number of UL HARQ burst allocations per HARQ enabled MS
45          per UL subframe.
46           Value 0..7 = 1..8 maximum HARQ bursts
47           8..15 = 1..8 maximum HARQ bursts, but may
48           include one non-HARQ burst"
49       REFERENCE
50           "Subclause 11.8.3.7.15 in IEEE 802.16e"
51       DEFVAL     { 0 }
52   ::= { wmanIf2BsOfdmaCapabilitiesEntry 22 }
53
54   wmanIf2eBsOfdmaCapMaxDlHrqBurst OBJECT-TYPE
55       SYNTAX      INTEGER (0..15)
56       MAX-ACCESS  read-only
57       STATUS      current
58       DESCRIPTION
59           "This field derived from bit 4..7 of 'Maximum number of
60          burst per frame capability' TLV indicates the maximum
61          number of DL HARQ burst allocations per HARQ enabled MS
62          per DL subframe.
63           Value 0..15 = 1..16 maximum HARQ bursts"
64       REFERENCE

```

```

1           "Subclause 11.8.3.7.15 in IEEE 802.16e"
2           DEFVAL      { 0 }
3           ::= { wmanIf2BsOfdmaCapabilitiesEntry 23 }
4
5   wmanIf2eBsOfdmaCapModMimo OBJECT-TYPE
6       SYNTAX      WmanIf2eOfdmaModMimo
7       MAX-ACCESS  read-only
8       STATUS      current
9       DESCRIPTION
10          "This field indicates the MIMO capability of OFDMA SS
11             modulator."
12       REFERENCE
13          "Subclause 11.8.3.7.16 in IEEE 802.16e"
14          ::= { wmanIf2BsOfdmaCapabilitiesEntry 24 }
15
16   wmanIf2eBsOfdmaCapSdmaPilot OBJECT-TYPE
17       SYNTAX      WmanIf2eSdmaPilotCap
18       MAX-ACCESS  read-only
19       STATUS      current
20       DESCRIPTION
21          "This field indicates the SDMA pilot pattern support
22             for AMC zone."
23       REFERENCE
24          "Subclause 11.8.3.7.17 in IEEE 802.16e"
25          ::= { wmanIf2BsOfdmaCapabilitiesEntry 25 }
26
27   wmanIf2eBsOfdmaCapMultipleBurst OBJECT-TYPE
28       SYNTAX      WmanIf2eMultiBurst
29       MAX-ACCESS  read-only
30       STATUS      current
31       DESCRIPTION
32          "This field indicates whether multiple FEC types are
33             supported in DL/UL burst profiles."
34       REFERENCE
35          "Subclause 11.8.3.7.18 in IEEE 802.16e"
36          ::= { wmanIf2BsOfdmaCapabilitiesEntry 26 }
37
38   wmanIf2eBsOfdmaCapIncrHarqBuffer OBJECT-TYPE
39       SYNTAX      WmanIf2eIncrHarqBuf
40       MAX-ACCESS  read-only
41       STATUS      current
42       DESCRIPTION
43          "This field indicates the maximal number of data
44             bits the SS is able to use for buffering for NEP/NSCH
45             based incremental redundancy CTC in downlink and uplink
46             transmissions."
47       REFERENCE
48          "Subclause 11.8.3.7.19.1 in IEEE 802.16e"
49          ::= { wmanIf2BsOfdmaCapabilitiesEntry 27 }
50
51   wmanIf2eBsOfdmaCapIncrDlHarqBuffer OBJECT-TYPE
52       SYNTAX      INTEGER (0..15)
53       MAX-ACCESS  read-only
54       STATUS      current
55       DESCRIPTION
56          "This field derived from bit 0..3 of 'HARQ incremental
57             redundancy buffer capability' TLV indicates the NEP value
58             of DL HARQ buffering capability for incremental redundancy
59             CTC."
60       REFERENCE
61          "Subclause 11.8.3.7.19.1 in IEEE 802.16e"
62          ::= { wmanIf2BsOfdmaCapabilitiesEntry 28 }
63
64   wmanIf2eBsOfdmaCapIncrUlHarqBuffer OBJECT-TYPE

```

```

1      SYNTAX      INTEGER (0..15)
2      MAX-ACCESS  read-only
3      STATUS      current
4      DESCRIPTION
5          "This field derived from bit 8..11 of 'HARQ incremental
6          redundancy buffer capability' TLV indicates the NEP value
7          of UL HARQ buffering capability for incremental redundancy
8          CTC."
9      REFERENCE
10         "Subclause 11.8.3.7.19.1 in IEEE 802.16e"
11         ::= { wmanIf2BsOfdmaCapabilitiesEntry 29 }

12
13 wmanIf2eBsOfdmaCapChaseHarqBuffer OBJECT-TYPE
14     SYNTAX      WmanIf2eChaseHarqBuf
15     MAX-ACCESS  read-only
16     STATUS      current
17     DESCRIPTION
18         "This field indicates the maximal number of data
19         bits the SS is able to use for buffering for
20         DIUC/duration based HARQ methods (Chase combining and
21         CC-IR) in downlink and uplink transmissions."
22     REFERENCE
23         "Subclause 11.8.3.7.19.2 in IEEE 802.16e"
24         ::= { wmanIf2BsOfdmaCapabilitiesEntry 30 }

25
26 wmanIf2eBsOfdmaCapChaseDlHarqBuf OBJECT-TYPE
27     SYNTAX      INTEGER (0..63)
28     MAX-ACCESS  read-only
29     STATUS      current
30     DESCRIPTION
31         "This field derived from bit 0..5 of 'HARQ Chase combining
32         and CC-IR buffer capability' indicates DL HARQ buffering
33         capability for chase combining (K)."
34     REFERENCE
35         "Subclause 11.8.3.7.19.2 in IEEE 802.16e"
36         ::= { wmanIf2BsOfdmaCapabilitiesEntry 31 }

37
38 wmanIf2eBsOfdmaCapChaseUlHarqBuf OBJECT-TYPE
39     SYNTAX      INTEGER (0..63)
40     MAX-ACCESS  read-only
41     STATUS      current
42     DESCRIPTION
43         "This field derived from bit 8..13 of 'HARQ Chase combining
44         and CC-IR buffer capability' indicates UL HARQ buffering
45         capability for chase combining (K)."
46     REFERENCE
47         "Subclause 11.8.3.7.19.2 in IEEE 802.16e"
48         ::= { wmanIf2BsOfdmaCapabilitiesEntry 32 }

49
50 wmanIf2BsOfdmaCapabilitiesConfigTable OBJECT-TYPE
51     SYNTAX      SEQUENCE OF WmanIf2BsOfdmaCapabilitiesConfigEntry
52     MAX-ACCESS  not-accessible
53     STATUS      current
54     DESCRIPTION
55         "This table contains the configuration for basic
56         capabilities of BS, specific to OFDMA Phy. The table is
57         intended to be used to restrict the Capabilities
58         implemented by BS, for example in order to comply with
59         local regulatory requirements. The BS should use the
60         configuration along with the implemented Capabilities
61         (wmanIf2BsOfdmaPhyTable) for negotiation of basic
62         capabilities with SS using RNG-RSP, SBC-RSP and REG-RSP
63         messages. The negotiated capabilities are obtained by
64         interSubclause of MS reported capabilities, BS raw"

```

```

1      capabilities and BS configured capabilities. The objects
2      in the table have read-write access. The rows are created
3      by BS as a copy of wmanIf2BsBasicCapabilitiesTable
4      and can be modified by NMS."
5      ::= { wmanIf2BsOfdmaPhy 8 }
6
7      wmanIf2BsOfdmaCapabilitiesConfigEntry OBJECT-TYPE
8          SYNTAX      WmanIf2BsOfdmaCapabilitiesConfigEntry
9          MAX-ACCESS  not-accessible
10         STATUS     current
11         DESCRIPTION
12             "This table provides one row for each BS sector and is
13             indexed by ifIndex."
14         INDEX { ifIndex }
15         ::= { wmanIf2BsOfdmaCapabilitiesConfigTable 1 }
16
17     WmanIf2BsOfdmaCapabilitiesConfigEntry ::= SEQUENCE {
18         wmanIf2BsOfdmaCapCfgFftSizes           WmanIf2OfdmaFftSizes,
19         wmanIf2BsOfdmaCapCfgDemodulator       WmanIf2OfdmaMsDeModType,
20         wmanIf2BsOfdmaCapCfgModulator        WmanIf2OfdmaMsModType,
21         wmanIf2BsOfdmaCapCfgNoHarqChannel    Unsigned32,
22         wmanIf2BsOfdmaCapCfgPermutation      WmanIf2OfdmaPermutation,
23         wmanIf2eBsOfdmaCapCfgMobilityFeature WmanIf2eOfdmaMobility,
24         wmanIf2eBsOfdmaCapCfgMaxMacLevelD1Fm WmanIf2eMaxMacLevel,
25         wmanIf2eBsOfdmaCapCfgMaxMacLevelUlFm WmanIf2eMaxMacLevel,
26         wmanIf2eBsOfdmaCapCfgDemMimo        WmanIf2eOfdmaDemMimo,
27         wmanIf2eBsOfdmaCapCfgMimoCapability  WmanIf2eOfdmaMimoCap,
28         wmanIf2eBsOfdmaCapCfgUlMimo         WmanIf2eOfdmaULMimo,
29         wmanIf2eBsOfdmaCapCfgPrivateMap      WmanIf2eOfdmaPrivMap,
30         wmanIf2eBsOfdmaCapCfgPrivateMapChain INTEGER,
31         wmanIf2eBsOfdmaCapCfgAasCapability  WmanIf2eOfdmaAasCap,
32         wmanIf2eBsOfdmaCapCfgCinrMesurement WmanIf2eOfdmaCinrCap,
33         wmanIf2eBsOfdmaCapCfgUlPowerControl WmanIf2eOfdmaUlPower,
34         wmanIf2eBsOfdmaCapCfgMapCapability   WmanIf2eOfdmaMapCap,
35         wmanIf2eBsOfdmaCapCfgUlControlChannel WmanIf2eOfdmaUlCntlCh,
36         wmanIf2eBsOfdmaCapCfgCistCapability WmanIf2eOfdmaMsCistCap,
37         wmanIf2eBsOfdmaCapCfgSoundigRspTime INTEGER,
38         wmanIf2eBsOfdmaCapCfgMaxSoundigInstr INTEGER,
39         wmanIf2eBsOfdmaCapCfgMaxUlHarqBurst INTEGER,
40         wmanIf2eBsOfdmaCapCfgMaxDlHarqBurst INTEGER,
41         wmanIf2eBsOfdmaCapCfgModMimo        WmanIf2eOfdmaModMimo,
42         wmanIf2eBsOfdmaCapCfgSdmaPilot      WmanIf2eSdmaPilotCap,
43         wmanIf2eBsOfdmaCapCfgMultipleBurst WmanIf2eMultiBurst,
44         wmanIf2eBsOfdmaCapCfgIncrHarqBuf   WmanIf2eIncrHarqBuf,
45         wmanIf2eBsOfdmaCapCfgIncrDlHarqBuf INTEGER,
46         wmanIf2eBsOfdmaCapCfgIncrUlHarqBuf INTEGER,
47         wmanIf2eBsOfdmaCapCfgChaseHarqBuf  WmanIf2eChaseHarqBuf,
48         wmanIf2eBsOfdmaCapCfgChaseDlHarqBuf INTEGER,
49         wmanIf2eBsOfdmaCapCfgChaseUlHarqBuf INTEGER}
50
51     wmanIf2BsOfdmaCapCfgFftSizes OBJECT-TYPE
52         SYNTAX      WmanIf2OfdmaFftSizes
53         MAX-ACCESS  read-write
54         STATUS     current
55         DESCRIPTION
56             "This field indicates the FFT sizes configured for the BS."
57         ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 1 }
58
59     wmanIf2BsOfdmaCapCfgDemodulator OBJECT-TYPE
60         SYNTAX      WmanIf2OfdmaMsDeModType
61         MAX-ACCESS  read-write
62         STATUS     current
63         DESCRIPTION
64             "This field indicates the different demodulator options"

```

```

1           configured for the BS."
2       ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 2 }
3
4   wmanIf2BsOfdmaCapCfgModulator OBJECT-TYPE
5       SYNTAX      WmanIf2OfdmaMsModType
6       MAX-ACCESS  read-write
7       STATUS      current
8       DESCRIPTION
9           "This field indicates the different modulator options
10          configured for the BS."
11       ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 3 }
12
13  wmanIf2BsOfdmaCapCfgNoHarqChannel OBJECT-TYPE
14      SYNTAX      Unsigned32
15      MAX-ACCESS  read-write
16      STATUS      current
17      DESCRIPTION
18          "This field specifies the number of uplink H-ARQ
19          channels (n) the SS supports, where n = 1..16.
20          The value of this object should be 0..15."
21       ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 4 }
22
23  wmanIf2BsOfdmaCapCfgPermutation OBJECT-TYPE
24      SYNTAX      WmanIf2OfdmaPermutation
25      MAX-ACCESS  read-write
26      STATUS      current
27      DESCRIPTION
28          "This field indicates the OFDMA MS Permutation support
29          configured for the BS."
30       ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 5 }
31
32  wmanIf2eBsOfdmaCapCfgMobilityFeature OBJECT-TYPE
33      SYNTAX      WmanIf2eOfdmaMobility
34      MAX-ACCESS  read-write
35      STATUS      current
36      DESCRIPTION
37          "The field indicates the mobility hand-over, Sleepmode,
38          and Idle-mode configured for the BS."
39       ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 6 }
40
41  wmanIf2eBsOfdmaCapCfgMaxMacLevelDlFm OBJECT-TYPE
42      SYNTAX      WmanIf2eMaxMacLevel
43      MAX-ACCESS  read-write
44      STATUS      current
45      DESCRIPTION
46          "Maximum amount of MAC level data the MS is capable of
47          processing per DL frame. A value of 0 indicates such
48          limitation does not exist, except the limitation of
49          the physical medium"
50      REFERENCE
51          "Subclause 11.7.8.10.1 in IEEE Std 802.16e-2005"
52      DEFVAL     { 0 }
53       ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 7 }
54
55  wmanIf2eBsOfdmaCapCfgMaxMacLevelUlFm OBJECT-TYPE
56      SYNTAX      WmanIf2eMaxMacLevel
57      MAX-ACCESS  read-write
58      STATUS      current
59      DESCRIPTION
60          "Maximum amount of MAC level data the MS is capable of
61          processing per UL frame. A value of 0 indicates such
62          limitation does not exist, except the limitation of
63          the physical medium"
64      REFERENCE

```

```

1           "Subclause 11.7.8.10.1 in IEEE Std 802.16e-2005"
2           DEFVAL      { 0 }
3           ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 8 }
4
5   wmanIf2eBsOfdmaCapCfgDemMimo OBJECT-TYPE
6       SYNTAX      WmanIf2eOfdmaDemMimo
7       MAX-ACCESS  read-write
8       STATUS      current
9       DESCRIPTION
10      "This field indicates the different MIMO options supported
11      by a WirelessMAN-OFDMA PHY SS in the downlink."
12      ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 9 }
13
14   wmanIf2eBsOfdmaCapCfgMimoCapability OBJECT-TYPE
15      SYNTAX      WmanIf2eOfdmaMimoCap
16      MAX-ACCESS  read-write
17      STATUS      current
18      DESCRIPTION
19      "This field indicates the MIMO capability of OFDMA MS
20      demodulator."
21      ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 10 }
22
23   wmanIf2eBsOfdmaCapCfgUlMimo OBJECT-TYPE
24      SYNTAX      WmanIf2eOfdmaUlMimo
25      MAX-ACCESS  read-write
26      STATUS      current
27      DESCRIPTION
28      "This field indicates different MIMO options supported
29      by a OFDMA PHY SS in the uplink"
30      REFERENCE
31      "Subclause 11.8.3.7.6 in IEEE 802.16e"
32      ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 11 }
33
34   wmanIf2eBsOfdmaCapCfgPrivateMap OBJECT-TYPE
35      SYNTAX      WmanIf2eOfdmaPrivMap
36      MAX-ACCESS  read-write
37      STATUS      current
38      DESCRIPTION
39      "This field indicates AAS private map parameters
40      supported by a OFDMA SS"
41      REFERENCE
42      "Subclause 11.8.3.7.7 in IEEE 802.16e"
43      ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 12 }
44
45   wmanIf2eBsOfdmaCapCfgPrivateMapChain OBJECT-TYPE
46      SYNTAX      INTEGER (0..3)
47      MAX-ACCESS  read-write
48      STATUS      current
49      DESCRIPTION
50      "This field indicates how many parallel private map
51      chains can be supported by an SS.
52      0:    no limit
53      1..3: maximum concurrent private map chains"
54      REFERENCE
55      "Subclause 11.8.3.7.7 in IEEE 802.16e"
56      ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 13 }
57
58   wmanIf2eBsOfdmaCapCfgAasCapability OBJECT-TYPE
59      SYNTAX      WmanIf2eOfdmaAasCap
60      MAX-ACCESS  read-write
61      STATUS      current
62      DESCRIPTION
63      "This field indicates different AAS options
64      supported by a OFDMA PHY SS in the downlink"

```

```

1      REFERENCE
2          "Subclause 11.8.3.7.8 in IEEE 802.16e"
3          ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 14 }
4
5      wmanIf2eBsOfdmaCapCfgCinrMesurement OBJECT-TYPE
6          SYNTAX      WmanIf2eOfdmaCinrCap
7          MAX-ACCESS  read-write
8          STATUS      current
9          DESCRIPTION
10         "This field indicates the CINR measurement capability
11         supported by a OFDMA PHY SS in the downlink."
12         REFERENCE
13         "Subclause 11.8.3.7.9 in IEEE 802.16e"
14         ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 15 }
15
16      wmanIf2eBsOfdmaCapCfgUlPowerControl OBJECT-TYPE
17          SYNTAX      WmanIf2eOfdmaUlPower
18          MAX-ACCESS  read-write
19          STATUS      current
20          DESCRIPTION
21         "This field indicates the power control options
22         supported by a OFDMA PHY SS for uplink transmission."
23         REFERENCE
24         "Subclause 11.8.3.7.11 in IEEE 802.16e"
25         ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 16 }
26
27      wmanIf2eBsOfdmaCapCfgMapCapability OBJECT-TYPE
28          SYNTAX      WmanIf2eOfdmaMapCap
29          MAX-ACCESS  read-write
30          STATUS      current
31          DESCRIPTION
32         "This field indicates the different MAP options supported
33         by a OFDMA PHY SS"
34         REFERENCE
35         "Subclause 11.8.3.7.11 in IEEE 802.16e"
36         ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 17 }
37
38      wmanIf2eBsOfdmaCapCfgUlControlChannel OBJECT-TYPE
39          SYNTAX      WmanIf2eOfdmaUlCtlCh
40          MAX-ACCESS  read-write
41          STATUS      current
42          DESCRIPTION
43         "This field indicates the different uplink control channels
44         supported by a OFDMA PHY SS."
45         REFERENCE
46         "Subclause 11.8.3.7.13 in IEEE 802.16e"
47         ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 18 }
48
49      wmanIf2eBsOfdmaCapCfgCistCapability OBJECT-TYPE
50          SYNTAX      WmanIf2eOfdmaMsCistCap
51          MAX-ACCESS  read-write
52          STATUS      current
53          DESCRIPTION
54         "This field indicates the MS capability of supporting CSIT
55         (uplink sounding)."
56         REFERENCE
57         "Subclause 11.8.3.7.14 in IEEE 802.16e"
58         ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 19 }
59
60      wmanIf2eBsOfdmaCapCfgSoundigRspTime OBJECT-TYPE
61          SYNTAX      INTEGER (0..7)
62          MAX-ACCESS  read-write
63          STATUS      current
64          DESCRIPTION

```

```

1          "This field derived from bit 3..5 of 'OFDMA MS CSIT
2          capability' TLV indicates the time needed for SS to respond
3          to a sounding command transmitted by the BS
4              Bit 3..5
5                  000    0.5ms
6                  001    0.75ms
7                  010    1ms
8                  011    1.25ms
9                  100    1.5ms
10                 101    min(2ms, Next Frame)
11                 110    min(5ms, Next Frame)
12                 111    Next Frame"
13      REFERENCE
14          "Subclause 11.8.3.7.14 in IEEE 802.16e"
15          ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 20 }
16
17      wmanIf2eBsOfdmaCapCfgMaxSoundigInstr OBJECT-TYPE
18          SYNTAX      INTEGER (0..15)
19          MAX-ACCESS  read-write
20          STATUS      current
21          DESCRIPTION
22              "This field derived from bit 6..9 of 'OFDMA MS CSIT
23              capability' TLV indicates the maximum number of
24              simultaneous sounding instructions (0 = unlimited)."
25      REFERENCE
26          "Subclause 11.8.3.7.14 in IEEE 802.16e"
27          ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 21 }
28
29      wmanIf2eBsOfdmaCapCfgMaxUlHargBurst OBJECT-TYPE
30          SYNTAX      INTEGER (0..15)
31          MAX-ACCESS  read-write
32          STATUS      current
33          DESCRIPTION
34              "This field derived from bit 0..3 of 'Maximum number of
35              burst per frame capability' TLV indicates the maximum
36              number of UL HARQ burst allocations per HARQ enabled MS
37              per UL subframe.
38                  Value 0..7 = 1..8 maximum HARQ bursts
39                  8..15 = 1..8 maximum HARQ bursts, but may
40                  include one non-HARQ burst"
41      REFERENCE
42          "Subclause 11.8.3.7.15 in IEEE 802.16e"
43          DEFVAL     { 0 }
44          ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 22 }
45
46      wmanIf2eBsOfdmaCapCfgMaxDlHargBurst OBJECT-TYPE
47          SYNTAX      INTEGER (0..15)
48          MAX-ACCESS  read-write
49          STATUS      current
50          DESCRIPTION
51              "This field derived from bit 4..7 of 'Maximum number of
52              burst per frame capability' TLV indicates the maximum
53              number of DL HARQ burst allocations per HARQ enabled MS
54              per DL subframe.
55                  Value 0..15 = 1..16 maximum HARQ bursts"
56      REFERENCE
57          "Subclause 11.8.3.7.15 in IEEE 802.16e"
58          DEFVAL     { 0 }
59          ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 23 }
60
61      wmanIf2eBsOfdmaCapCfgModMimo OBJECT-TYPE
62          SYNTAX      WmanIf2eOfdmaModMimo
63          MAX-ACCESS  read-write
64          STATUS      current

```

```

1      DESCRIPTION
2          "This field indicates the MIMO capability of OFDMA SS
3          modulator."
4      REFERENCE
5          "Subclause 11.8.3.7.16 in IEEE 802.16e"
6          ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 24 }
7
8      wmanIf2eBsOfdmaCapCfgSdmaPilot OBJECT-TYPE
9          SYNTAX      WmanIf2eSdmaPilotCap
10         MAX-ACCESS  read-write
11         STATUS      current
12         DESCRIPTION
13             "This field indicates the SDMA pilot pattern support
14             for AMC zone."
15         REFERENCE
16             "Subclause 11.8.3.7.17 in IEEE 802.16e"
17             ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 25 }
18
19      wmanIf2eBsOfdmaCapCfgMultipleBurst OBJECT-TYPE
20         SYNTAX      WmanIf2eMultiBurst
21         MAX-ACCESS  read-write
22         STATUS      current
23         DESCRIPTION
24             "This field indicates whether multiple FEC types are
25             supported in DL/UL burst profiles."
26         REFERENCE
27             "Subclause 11.8.3.7.18 in IEEE 802.16e"
28             ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 26 }
29
30      wmanIf2eBsOfdmaCapCfgIncrHarqBuffer OBJECT-TYPE
31         SYNTAX      WmanIf2eIncrHarqBuf
32         MAX-ACCESS  read-write
33         STATUS      current
34         DESCRIPTION
35             "This field indicates the maximal number of data
36             bits the SS is able to use for buffering for NEP/NSCH
37             based incremental redundancy CTC in downlink and uplink
38             transmissions."
39         REFERENCE
40             "Subclause 11.8.3.7.19.1 in IEEE 802.16e"
41             ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 27 }
42
43      wmanIf2eBsOfdmaCapCfgIncrDlHarqBuffer OBJECT-TYPE
44         SYNTAX      INTEGER (0..15)
45         MAX-ACCESS  read-write
46         STATUS      current
47         DESCRIPTION
48             "This field derived from bit 0..3 of 'HARQ incremental
49             redundancy buffer capability' TLV indicates the NEP value
50             of DL HARQ buffering capability for incremental redundancy
51             CTC."
52         REFERENCE
53             "Subclause 11.8.3.7.19.1 in IEEE 802.16e"
54             ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 28 }
55
56      wmanIf2eBsOfdmaCapCfgIncrUlHarqBuffer OBJECT-TYPE
57         SYNTAX      INTEGER (0..15)
58         MAX-ACCESS  read-write
59         STATUS      current
60         DESCRIPTION
61             "This field derived from bit 8..11 of 'HARQ incremental
62             redundancy buffer capability' TLV indicates the NEP value
63             of UL HARQ buffering capability for incremental redundancy
64             CTC."

```

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1      REFERENCE
2          "Subclause 11.8.3.7.19.1 in IEEE 802.16e"
3          ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 29 }
4
5      wmanIf2eBsOfdmaCapCfgChaseHarqBuffer OBJECT-TYPE
6          SYNTAX      WmanIf2eChaseHarqBuf
7          MAX-ACCESS  read-write
8          STATUS      current
9          DESCRIPTION
10             "This field indicates the maximal number of data
11               bits the SS is able to use for buffering for
12               DIUC/duration based HARQ methods (Chase combining and
13               CC-IR) in downlink and uplink transmissions."
14          REFERENCE
15             "Subclause 11.8.3.7.19.2 in IEEE 802.16e"
16             ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 30 }
17
18      wmanIf2eBsOfdmaCapCfgChaseDlHarqBuf OBJECT-TYPE
19          SYNTAX      INTEGER (0..63)
20          MAX-ACCESS  read-write
21          STATUS      current
22          DESCRIPTION
23             "This field derived from bit 0..5 of 'HARQ Chase combining
24               and CC-IR buffer capability' indicates DL HARQ buffering
25               capability for chase combining (K)."
26          REFERENCE
27             "Subclause 11.8.3.7.19.2 in IEEE 802.16e"
28             ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 31 }
29
30      wmanIf2eBsOfdmaCapCfgChaseUlHarqBuf OBJECT-TYPE
31          SYNTAX      INTEGER (0..63)
32          MAX-ACCESS  read-write
33          STATUS      current
34          DESCRIPTION
35             "This field derived from bit 8..13 of 'HARQ Chase combining
36               and CC-IR buffer capability' indicates UL HARQ buffering
37               capability for chase combining (K)."
38          REFERENCE
39             "Subclause 11.8.3.7.19.2 in IEEE 802.16e"
40             ::= { wmanIf2BsOfdmaCapabilitiesConfigEntry 32 }
41
42
43
44
45
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47
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