

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >
Title	Proposed text and ASN.1 code to support multicast polling
Date Submitted	2007-05-08
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Re:	
Abstract	This contribution proposes the text and ASN.1 code in wmanIf2Mib to support CID update TLV.
Purpose	Adoption
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2. Introduction

2

3 This contribution proposes the text and ASN.1 code in wmanIf2mMib to support multicast polling.

2. Proposed changes

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2.1 wmanIf2Mib Change

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13.1.3.1 wmanIf2BsObjects

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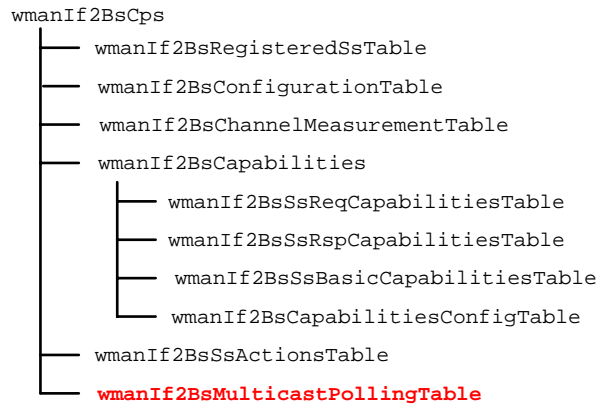
13.1.3.1.2 wmanIf2BsCps

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8 [Change Figure 4 as the following:]

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14

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Figure 4— wmanIf2BsCps structure

16 [Add a new subclause:]

17

13.1.3.1.2.6 wmanIf2BsMulticastPollingTable

18

19 wmanIf2BsMulticastPollingTable contains the multicast polling group information. BS can send
20 MCA-REQ message to assign/remove a SS to/from a multicast polling group. An entry is created
21 when a SS is assigned to a multicast polling group; and deleted when a SS is removed from a
22 multicast polling group.

23

2.2 ASN.1 Code Change

24

13.2 ASN.1 Definitions of MIB Modules

25

```

1  13.2.2 wmanIf2Mib
2  [Add the following ASN.1 code:]
3
4
5  -- XXX
6  wmanIf2BsMulticastPollingTable OBJECT-TYPE
7      SYNTAX      SEQUENCE OF WmanIf2BsMulticastPollingEntry
8      MAX-ACCESS  not-accessible
9      STATUS      current
10     DESCRIPTION
11         "This table contains the multicast polling group information
12         . BS can send MCA-REQ message to assign/remove a SS to/from
13         a multicast polling group. An entry is created when a SS is
14         assigned to a multicast polling group; and deleted when a
15         SS is removed from a multicast polling group."
16     REFERENCE
17         "Subclause 6.3.2.3.18 in IEEE Std 802.16-2004"
18     ::= { wmanIf2BsCps 6 }
19
20  wmanIf2BsMulticastPollingEntry OBJECT-TYPE
21      SYNTAX      WmanIf2BsMulticastPollingEntry
22      MAX-ACCESS  not-accessible
23      STATUS      current
24      DESCRIPTION
25         "This table is indexed by wmanIf2BsCid and
26         wmanIf2BsMulticastPollingCid."
27      INDEX { wmanIf2BsMulticastPollingCid,
28              wmanIf2BsSsMacAddress }
29      ::= { wmanIf2BsMulticastPollingTable 1 }
30
31  WmanIf2BsMulticastPollingEntry ::= SEQUENCE {
32      wmanIf2BsMulticastPollingCid      WmanIf2CidType,
33      wmanIf2BsMulticastGroupType      INTEGER,
34      wmanIf2BsPeriodAllocationParameterM  INTEGER,
35      wmanIf2BsPeriodAllocationParameterK  INTEGER,
36      wmanIf2BsPeriodAllocationParameterN  INTEGER,
37      wmanIf2BsPeriodicAllocationType      INTEGER}
38
39  wmanIf2BsMulticastPollingCid OBJECT-TYPE
40      SYNTAX      WmanIf2CidType
41      MAX-ACCESS  read-only
42      STATUS      current
43      DESCRIPTION
44         "A 16 bit channel identifier points to the connection being
45         created by DSA for this service flow. When '0' is returned
46         from reading this object, it means no CID has been assigned
47         to this service flow yet."
48      ::= { wmanIf2BsMulticastPollingEntry 1 }
49
50  wmanIf2BsMulticastGroupType OBJECT-TYPE
51      SYNTAX      INTEGER {regular(0),
52                          aas(1)}
53      MAX-ACCESS  read-only
54      STATUS      current
55      DESCRIPTION
56         "Multicast group type."
57      REFERENCE
58         "Subclause 11.10, Table 382 in IEEE Std 802.16-2004"
59      DEFVAL      { 0 }
60      ::= { wmanIf2BsMulticastPollingEntry 2 }
61
62  wmanIf2BsPeriodAllocationParameterM OBJECT-TYPE

```

```

1      SYNTAX      INTEGER ( 0 .. 255 )
2      MAX-ACCESS  read-only
3      STATUS      current
4      DESCRIPTION
5          "Periodic allocation parameter = 'm'
6          Parameters m, k have the following meaning: multicast group
7          gets a multicast polling allocation at the end of the frame
8          #N if  $N \bmod k = m$ ; size of the allocation is n."
9      REFERENCE
10         "Subclause 11.10, Table 382 in IEEE Std 802.16-2004"
11     ::= { wmanIf2BsMulticastPollingEntry 3 }
12
13 wmanIf2BsPeriodAllocationParameterK OBJECT-TYPE
14     SYNTAX      INTEGER ( 0 .. 255 )
15     MAX-ACCESS  read-only
16     STATUS      current
17     DESCRIPTION
18         "Periodic allocation parameter = 'k'
19         Parameters m, k have the following meaning: multicast group
20         gets a multicast polling allocation at the end of the frame
21         #N if  $N \bmod k = m$ ; size of the allocation is n."
22     REFERENCE
23         "Subclause 11.10, Table 382 in IEEE Std 802.16-2004"
24     ::= { wmanIf2BsMulticastPollingEntry 4 }
25
26 wmanIf2BsPeriodAllocationParameterN OBJECT-TYPE
27     SYNTAX      INTEGER ( 0 .. 255 )
28     MAX-ACCESS  read-only
29     STATUS      current
30     DESCRIPTION
31         "Periodic allocation parameter = 'n'
32         Parameters m, k have the following meaning: multicast group
33         gets a multicast polling allocation at the end of the frame
34         #N if  $N \bmod k = m$ ; size of the allocation is n."
35     REFERENCE
36         "Subclause 11.10, Table 382 in IEEE Std 802.16-2004"
37     ::= { wmanIf2BsMulticastPollingEntry 5 }
38
39 wmanIf2BsPeriodicAllocationType OBJECT-TYPE
40     SYNTAX      INTEGER { reqRegionFull(0),
41                    regRegionFocused(1) }
42     MAX-ACCESS  read-only
43     STATUS      current
44     DESCRIPTION
45         "Periodic allocation type. Applicable for OFDM PHY only."
46     REFERENCE
47         "Subclause 11.10, Table 382 in IEEE Std 802.16-2004"
48     ::= { wmanIf2BsMulticastPollingEntry 6 }
49
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