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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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Table of Content

- 1. Introduction..... 3**
- 2. Proposed changes..... 3**
 - 2.1 wmanI2Mib Change..... 3**
 - 2.2 ASN.1 Code Change..... 3**

1

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
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1. Introduction

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

2. Proposed changes

2.1 wmanIf2Mib Change

13.1.3.1 wmanIf2BsObjects

13.1.3.1.2 wmanIf2BsCps

[Change Figure 4 as the following:]

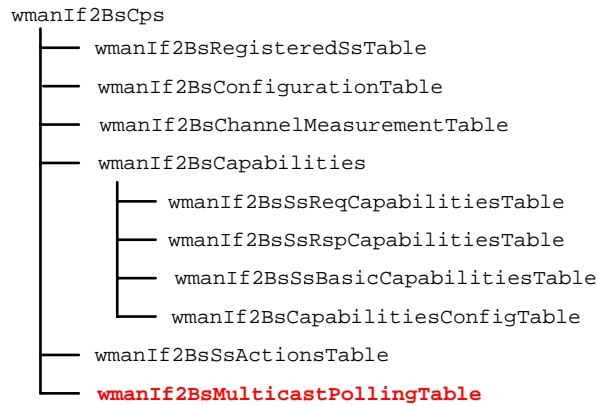


Figure 4— wmanIf2BsCps structure

[Add a new subclause:]

13.1.3.1.2.6 wmanIf2BsMulticastPollingTable

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

2.2 ASN.1 Code Change

13.2 ASN.1 Definitions of MIB Modules

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1  13.2.2 wmanIf2Mib
2  [Add the following ASN.1 code:]
3
4  -- XXX
5  wmanIf2BsMulticastPollingTable OBJECT-TYPE
6      SYNTAX      SEQUENCE OF WmanIf2BsMulticastPollingEntry
7      MAX-ACCESS  not-accessible
8      STATUS      current
9      DESCRIPTION
10         "This table contains the multicast polling group information
11         . BS can send MCA-REQ message to assign/remove a SS to/from
12         a multicast polling group. An entry is created when a SS is
13         assigned to a multicast polling group; and deleted when a
14         SS is removed from a multicast polling group."
15     REFERENCE
16         "Subclause 6.3.2.3.18 in IEEE Std 802.16-2004"
17     ::= { wmanIf2BsCps 6 }
18
19  wmanIf2BsMulticastPollingEntry OBJECT-TYPE
20      SYNTAX      WmanIf2BsMulticastPollingEntry
21      MAX-ACCESS  not-accessible
22      STATUS      current
23      DESCRIPTION
24         "This table is indexed by wmanIf2BsCid and
25         wmanIf2BsSsMacAddress. wmanIf2BsCid is the multicast CID."
26     INDEX { wmanIf2BsCid, wmanIf2BsSsMacAddress }
27     ::= { wmanIf2BsMulticastPollingTable 1 }
28
29  WmanIf2BsMulticastPollingEntry ::= SEQUENCE {
30      wmanIf2BsMulticastGroupType      INTEGER,
31      wmanIf2BsPeriodAllocationParameterM  INTEGER,
32      wmanIf2BsPeriodAllocationParameterK  INTEGER,
33      wmanIf2BsPeriodAllocationParameterN  INTEGER,
34      wmanIf2BsPeriodicAllocationType     INTEGER}
35
36  wmanIf2BsMulticastGroupType OBJECT-TYPE
37      SYNTAX      INTEGER {regular(0),
38                      aas(1)}
39      MAX-ACCESS  read-only
40      STATUS      current
41      DESCRIPTION
42         "Multicast group type."
43     REFERENCE
44         "Subclause 11.10, Table 382 in IEEE Std 802.16-2004"
45     DEFVAL      { 0 }
46     ::= { wmanIf2BsMulticastPollingEntry 1 }
47
48  wmanIf2BsPeriodAllocationParameterM OBJECT-TYPE
49      SYNTAX      INTEGER ( 0 .. 255 )
50      MAX-ACCESS  read-only
51      STATUS      current
52      DESCRIPTION
53         "Periodic allocation parameter = 'm'
54         Parameters m, k have the following meaning: multicast group
55         gets a multicast polling allocation at the end of the frame
56         #N if N mod k = m; size of the allocation is n."
57     REFERENCE
58         "Subclause 11.10, Table 382 in IEEE Std 802.16-2004"
59     ::= { wmanIf2BsMulticastPollingEntry 2 }
60
61  wmanIf2BsPeriodAllocationParameterK OBJECT-TYPE
62      SYNTAX      INTEGER ( 0 .. 255 )
63      MAX-ACCESS  read-only

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