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Title	Proposed text and ASN.1 code to support MOB_PAG-ADV
Date Submitted	2007-03-13
Source(s)	Joey Chou Intel Corporation [mailto:joey.chou@intel.com]
Re:	
Abstract	This contribution proposes the text and ASN.1 code in wmanIf2mMib to support MOB_PAG-ADV message.
Purpose	Adoption
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1. Introduction

This contribution proposes the text and ASN.1 code in wmanIf2mMib to support MOB_PAG-ADV message.

2. Proposed changes

2.1 wmanIf2mMib Change

13.1.4.1 wmanIf2mBsObjects

13.1.4.1.1 wmanIf2mBsCm

[Change Figure 19 as the following:]

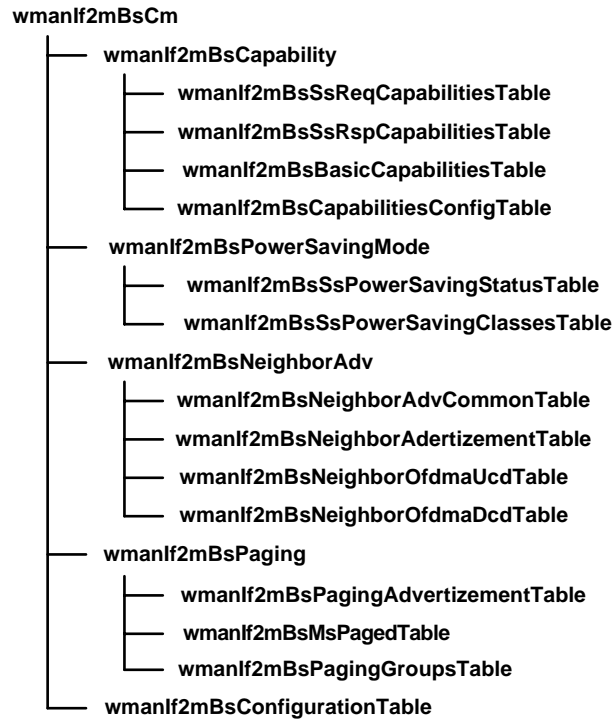


Figure 19—wmanIf2mBsCm structure

[Add the following text to subclause 13.1.4.1.1:]

13.1.4.1.1.4 wmanIf2mBsPaging

13.1.4.1.1.4.1 wmanIf2mBsPagingAdvertizementTable

1 wmanIf2mBsPagingAdvertizementTable contains the attributes that BS broadcasts in the
2 MOB_PAG-ADV message.

3 **13.1.4.1.1.4.2 wmanIf2mBsMsPagedTable**

4 wmanIf2mBsMsPagedTable contains the MSs that are paged in the MOB_PAG-ADV message.

5 **13.1.4.1.1.4.2 wmanIf2mBsPagingGroupsTable**

6 wmanIf2mBsPagingGroupsTable contains paging group IDs that BS can broadcast in the
7 MOB_PAG-ADV message.

8 **2.2 ASN.1 Code Change**

9 **13.2 ASN.1 Definitions of MIB Modules**

10 **13.2.4 wmanIf2mMib**

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

```

12
13
14 WmanIf2mPagingAction ::= TEXTUAL-CONVENTION
15     STATUS      current
16     DESCRIPTION
17         "Paging action instruction to MS
18         0b00 = No Action Required
19         0b01 = Perform Ranging to establish location and
20             acknowledge message
21         0b10 = Enter Network"
22     REFERENCE
23         "Subclause 6.3.2.3.56, Table 109p in IEEE Std 802.16e-2005"
24     SYNTAX      INTEGER {noAction(0),
25                     performRanging(1),
26                     enterNetwork(2)}
27
28
29 WmanIf2mSsMacAddrHash ::= TEXTUAL-CONVENTION
30     STATUS      current
31     DESCRIPTION
32         "24 bit SS MAC address hash that is obtained by computing a
33         CRC24 on the MS 48-bit MAC address."
34     REFERENCE
35         "Subclause 6.3.2.3.56, Table 109p in IEEE Std 802.16e-2005"
36     SYNTAX      OCTET STRING (SIZE(3))
37
38 wmanIf2mBsPaging OBJECT IDENTIFIER ::= { wmanIf2mBsCm 4 }
39
40 -- XXX
41 -- wmanIf2mBsPagingAdvertizementTable
42 --
43 wmanIf2mBsPagingAdvertizementTable OBJECT-TYPE
44     SYNTAX      SEQUENCE OF WmanIf2mBsPagingAdvertizementEntry
45     MAX-ACCESS  not-accessible
46     STATUS      current
47     DESCRIPTION
48         " This table contains the attributes that BS broadcasts in
49         the MOB_PAG-ADV message."
50     REFERENCE
51         "Subclause 6.3.2.3.56, Table 109p in IEEE Std 802.16e-2005"

```

```

1      ::= { wmanIf2mBsPaging 1 }
2
3      wmanIf2mBsPagingAdvertizementEntry OBJECT-TYPE
4          SYNTAX      WmanIf2mBsPagingAdvertizementEntry
5          MAX-ACCESS  not-accessible
6          STATUS      current
7          DESCRIPTION
8              "This table is indexed by ifIndex."
9          INDEX { ifIndex }
10         ::= { wmanIf2mBsPagingAdvertizementTable 1 }
11
12     WmanIf2mBsPagingAdvertizementEntry ::= SEQUENCE {
13         wmanIf2mBsPagingGroupListIndex      INTEGER,
14         wmanIf2mBsPagingRspWindow          INTEGER,
15         wmanIf2BsPagingAdvRowStatus        RowStatus}
16
17     wmanIf2mBsPagingGroupListIndex OBJECT-TYPE
18         SYNTAX      INTEGER (0 .. 65535)
19         MAX-ACCESS  read-create
20         STATUS      current
21         DESCRIPTION
22             "wmanIf2mBsPagingGroupListIndex maps to
23              wmanIf2mBsPagingGroupListId in wmanIf2mBsPagingGroupsTable
24              , and is used to identify the list of paging group IDs."
25         ::= { wmanIf2mBsPagingAdvertizementEntry 1 }
26
27     wmanIf2mBsPagingRspWindow OBJECT-TYPE
28         SYNTAX      INTEGER (0 .. 255)
29         UNITS       "Frames"
30         MAX-ACCESS  read-create
31         STATUS      current
32         DESCRIPTION
33             "OFDMA-PHY specific parameter used to indicate the time
34              window during which the MS shall transmit the CDMA code at
35              the transmission opportunity assigned in the CDMA code and
36              transmission opportunity assignment TLV. The start of the
37              window is the next frame after receiving the MOB_PAG-ADV."
38         REFERENCE
39             "Subclause 11.17.2 in IEEE Std 802.16e-2005"
40         ::= { wmanIf2mBsPagingAdvertizementEntry 2 }
41
42     wmanIf2BsPagingAdvRowStatus OBJECT-TYPE
43         SYNTAX      RowStatus
44         MAX-ACCESS  read-create
45         STATUS      current
46         DESCRIPTION
47             "This object is used to ensure that the write, create,
48              delete operation to multiple columns is guaranteed to
49              be treated as atomic operation by agent."
50         ::= { wmanIf2mBsPagingAdvertizementEntry 3 }
51
52     wmanIf2mBsMsPagedTable OBJECT-TYPE
53         SYNTAX      SEQUENCE OF WmanIf2mBsMsPagedEntry
54         MAX-ACCESS  not-accessible
55         STATUS      current
56         DESCRIPTION
57             "This table contains the MSs that are paged in the
58              MOB_PAG-ADV message."
59         REFERENCE
60             "Subclause 6.3.2.3.56, Table 109p in IEEE Std 802.16e-2005"
61         ::= { wmanIf2mBsPaging 2 }
62
63     wmanIf2mBsMsPagedEntry OBJECT-TYPE
64         SYNTAX      WmanIf2mBsMsPagedEntry

```

```

1         MAX-ACCESS not-accessible
2         STATUS current
3         DESCRIPTION
4             "This table is indexed by wmanIf2mBsSsMacAddress."
5         INDEX { wmanIf2mBsSsMacAddress }
6         ::= { wmanIf2mBsMsPagedTable 1 }
7
8     WmanIf2mBsMsPagedEntry ::= SEQUENCE {
9         wmanIf2mBsSsMacAddrHash          WmanIf2mSsMacAddrHash,
10        wmanIf2mBsPagingActionCode       WmanIf2mPagingAction,
11        wmanIf2mBsCdmaCodeAndTxOpportunity INTEGER}
12
13     -- XXX
14     wmanIf2mBsSsMacAddrHash OBJECT-TYPE
15         SYNTAX          WmanIf2mSsMacAddrHash
16         MAX-ACCESS read-only
17         STATUS current
18         DESCRIPTION
19             "The hash is obtained by computing a CRC24 on the MS 48-bit
20             MAC address. The polynomial for the calculation is
21             0x1864CFB"
22         REFERENCE
23             "Subclause 6.3.2.3.56, Table 109p in IEEE Std 802.16e-2005"
24         ::= { wmanIf2mBsMsPagedEntry 1 }
25
26     -- XXX
27     wmanIf2mBsPagingActionCode OBJECT-TYPE
28         SYNTAX          WmanIf2mPagingAction
29         MAX-ACCESS read-only
30         STATUS current
31         DESCRIPTION
32             "Paging action instruction to MS."
33         REFERENCE
34             "Subclause 6.3.2.3.56, Table 109p in IEEE Std 802.16e-2005"
35         ::= { wmanIf2mBsMsPagedEntry 2 }
36
37     -- XXX
38     wmanIf2mBsCdmaCodeAndTxOpportunity OBJECT-TYPE
39         SYNTAX          INTEGER (0 .. 65535)
40         MAX-ACCESS read-only
41         STATUS current
42         DESCRIPTION
43             "OFDMA-PHY specific parameter used to indicate CDMA code
44             and transmission opportunity assigned to one or more MSs
45             being paged in this message. One CDMA code and
46             transmission opportunity assignment in the TLV corresponds
47             to one MS paged. If wmanIf2mBsPagingActionCode is 'No
48             Action Required', then it should return 0."
49         REFERENCE
50             "Subclause 11.17.1 in IEEE Std 802.16e-2005"
51         ::= { wmanIf2mBsMsPagedEntry 3 }
52
53     -- XXX
54     wmanIf2mBsPagingGroupsTable OBJECT-TYPE
55         SYNTAX          SEQUENCE OF WmanIf2mBsPagingGroupsEntry
56         MAX-ACCESS not-accessible
57         STATUS current
58         DESCRIPTION
59             "This table contains paging group IDs that BS can broadcast
60             in the MOB_PAG-ADV message."
61         REFERENCE
62             "Table 109f and Table 358 in IEEE Std 802.16e-2005"
63         ::= { wmanIf2mBsPaging 3 }
64

```

```

1  wmanIf2mBsPagingGroupsEntry OBJECT-TYPE
2      SYNTAX      WmanIf2mBsPagingGroupsEntry
3      MAX-ACCESS  not-accessible
4      STATUS      current
5      DESCRIPTION
6          "This table is doubled indexed by
7           wmanIf2mBsPagingGroupListId and wmanIf2mBsPagingGroupId.
8           Each entry contains a paging group ID. If multiple paging
9           group IDs are to be formed in a list that will be
10          broadcast by a BS, these paging group IDs should be
11          identified by the same wmanIf2mBsPagingGroupListId value."
12      INDEX { wmanIf2mBsPagingGroupListId,
13              wmanIf2mBsPagingGroupId }
14      ::= { wmanIf2mBsPagingGroupsTable 1 }
15
16  WmanIf2mBsPagingGroupsEntry ::= SEQUENCE {
17      wmanIf2mBsPagingGroupListId      INTEGER,
18      wmanIf2mBsPagingGroupId          INTEGER,
19      wmanIf2BsPagingGroupsRowStatus   RowStatus}
20
21  -- XXX
22  wmanIf2mBsPagingGroupListId OBJECT-TYPE
23      SYNTAX      INTEGER (0 .. 65535)
24      MAX-ACCESS  not-accessible
25      STATUS      current
26      DESCRIPTION
27          "The index to the wmanIf2mBsPagingGroupsTable."
28      REFERENCE
29          "Table 109f in IEEE Std 802.16e-2005"
30      ::= { wmanIf2mBsPagingGroupsEntry 1 }
31
32  -- XXX
33  wmanIf2mBsPagingGroupId OBJECT-TYPE
34      SYNTAX      INTEGER (0 .. 65535)
35      MAX-ACCESS  not-accessible
36      STATUS      current
37      DESCRIPTION
38          "This field indicates the ID of the paging group."
39      REFERENCE
40          "Subclause 6.3.2.3.47, Table 109f in IEEE Std 802.16e-2005"
41      ::= { wmanIf2mBsPagingGroupsEntry 2 }
42
43  wmanIf2BsPageingGroupsRowStatus OBJECT-TYPE
44      SYNTAX      RowStatus
45      MAX-ACCESS  read-create
46      STATUS      current
47      DESCRIPTION
48          "This object is used to ensure that the write, create,
49          delete operation to multiple columns is guaranteed to
50          be treated as atomic operation by agent."
51      ::= { wmanIf2mBsPagingGroupsEntry 3 }
52
53
54
55

```

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