Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Proposed text and ASN.1 code to support CID update TLV**
Date Submitted	**2007-05-02**
Source(s)	Joey Chou Intel Corporation [mailto:joey.chou@intel.com]
Re:	
Abstract	This contribution proposes the text and ASN.1 code in wmanIf2Mib to support CID update TLV.
Purpose	Adoption
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1. Introduction

This contribution proposes the text and ASN.1 code in wmanIf2mMib to support CID update TLV.

2. Proposed changes

2.1 wmanIf2mMib Change

13.1.4.1 wmanIf2mBsObjects

13.1.4.1.1 wmanIf2mBsCm

[Change Figure 16 as the following:]

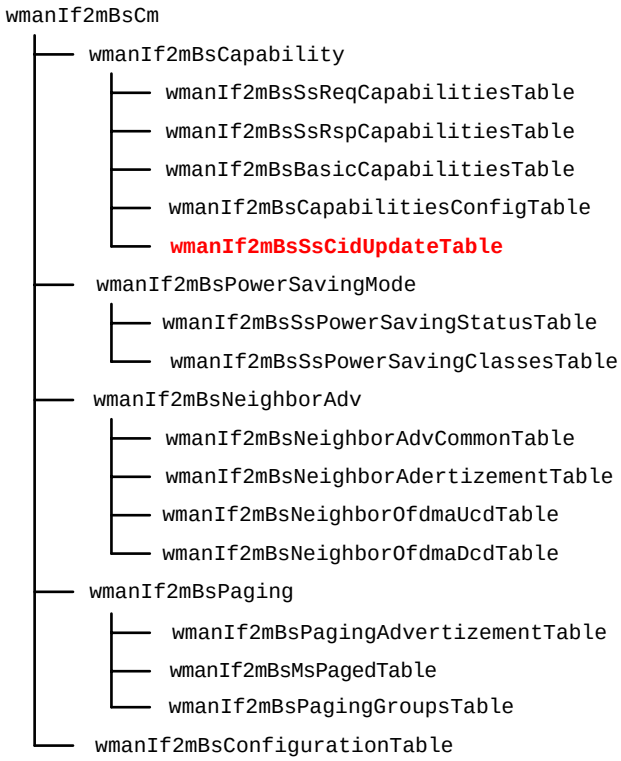

Figure 16— wmanIf2mBsCm structure

[Add a new subclause:]

13.1.4.1.1.1.5 wmanIf2mBsSsCidUpdateTable

wmanIf2mBsSsCidUpdateTable contains the 'CID update' TLV that is send in the REG-RSP message to allow an MS to update its service flows and connection information so that it may continue service after a handover to a new serving BS.

2.2 ASN.1 Code Change

13.2 ASN.1 Definitions of MIB Modules

13.2.3 wmanIf2mMib

[Add the following ASN.1 code:]

```
-- XXX
wmanIf2mBsSsCidUpdateTable OBJECT-TYPE
        SYNTAX      SEQUENCE OF WmanIf2mBsSsCidUpdateEntry
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
            "This table contains the 'CID update' TLV that is send in
             the REG-RSP message to allow an MS to update its service
             flows and connection information so that it may continue
             service after a handover to a new serving BS.

             The wmanIf2BsCid and wmanIf2BsSfTargetSaid objects in
             wmanIf2BsServiceFlowTable in wmanIf2Mib shall be updated
             with the CIDs and SAIDs included in the 'CID update' TLV.
             If the service flow parameters changes are included in the
             'Connection Info' TLV, the service flow information can be
             found in wmanIf2BsServiceFlowTable."
        REFERENCE
            "Subclause 6.3.2.3.8 in IEEE Std 802.16e-2005"
        ::= { wmanIf2mBsCapabilities 5 }

wmanIf2mBsSsCidUpdateEntry OBJECT-TYPE
        SYNTAX      WmanIf2mBsSsCidUpdateEntry
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
            "This table provides one row for each service flow. Its is
             indexed by ifIndex, indicating the BS sector,
             wmanIf2mBsSsMacAddress, and wmanIf2mBsSsSfId."
        INDEX { ifIndex, wmanIf2mBsSsMacAddress, wmanIf2mBsSsSfId }
        ::= { wmanIf2mBsSsCidUpdateTable 1 }

WmanIf2mBsSsCidUpdateEntry ::= SEQUENCE {
        wmanIf2mBsSsSfId                        Unsigned32,
        wmanIf2mBsSsNewCid                      WmanIf2mCidType,
        wmanIf2mBsSsNewSaid                     Integer32,
        wmanIf2mBsSsOldSaid                     Integer32}

wmanIf2mBsSsSfId OBJECT-TYPE
        SYNTAX      Unsigned32 (1 .. 4294967295)
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
            "A 32 bit quantity that uniquely identifies a service flow."
        ::= { wmanIf2mBsSsCidUpdateEntry 1 }
```

```
wmanIf2mBsSsNewCid OBJECT-TYPE
        SYNTAX      WmanIf2mCidType
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "The new CID at the target BS for a service flow that was
             used by MS in the previous serving BS."
        REFERENCE
            "Subclause 11.7.10 in IEEE Std 802.16e-2005"
        ::= { wmanIf2mBsSsCidUpdateEntry 2 }

wmanIf2mBsSsNewSaid OBJECT-TYPE
        SYNTAX      Integer32 (0 .. 65535)
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "The field indicates New SAID after handover to new BS. It
             provides a translation table that allows an MS to update
             its security associations so that it may continue security
             service after a handover to a new serving BS."
        REFERENCE
            "Subclause 11.7.18 in IEEE Std 802.16e-2005"
        ::= { wmanIf2mBsSsCidUpdateEntry 3 }

wmanIf2mBsSsOldSaid OBJECT-TYPE
        SYNTAX      Integer32 (0 .. 65535)
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "The field indicates Old SAID after handover to new BS. It
             provides a translation table that allows an MS to update
             its security associations so that it may continue security
             service after a handover to a new serving BS."
        REFERENCE
            "Subclause 11.7.18 in IEEE Std 802.16e-2005"
        ::= { wmanIf2mBsSsCidUpdateEntry 4 }
```