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

1

# <sub>2</sub> 1. Introduction

3 This contribution proposes the text and ASN.1 code in wmanlf2Mib to support account 4 management.

# <sub>5</sub> 2. Proposed changes

- <sub>6</sub> 2.1 wmanlf2Mib Change
- 7 13.1.3.1 wmanlf2BsObjects

#### 8 13.1.3.1.1 wmanlf2BsPacketCs

9	[Change Figure 3 as the following:]
10	
11	
	wmanlf2BsPacketCs
	wmanlf2BsServiceFlowTable
40	wmanlf2BsOtaUsageDataRecordTable
12 13	
14	Figure 3—wmanlf2BsPacketCs structure
15	
10	
16	[Add a new subclause:]
17	
18	13.1.3.1.1.2 wmanlf2BsOtaUsageDataRecordTable
19	wmanlf2BsOtaUsageDataRecordTable contains counters to keep track of the number of packets
20	and octets that have been received or transmitted over the air interface. BS may delete some OTA
21	UDR in wmanlf2BsOtaUsageDataRecordTable after they have been transferred to the AAA server.
22	
23	2.2 ASN.1 Code Change

### 24 13.2 ASN.1 Definitions of MIB Modules

#### 25 **13.2.2 wmanlf2Mib**

26 27	[Delete the following ASN.1 code:]				
28	wmanIf2BsSsPacketCounterTable OBJECT-TYPE				
29	SYNTAX SEQUENCE OF WmanIf2BsSsPacketCounterEntry				
30	MAX-ACCESS not-accessible				
31					
32					
33	"This table contains counters to keep track of the number				
34	of packets and octets that have been received or				
35	transmitted on the per service flow basis."				
36					

	SYNTAX	winterEntry OBJECT WmanIf2BsSsPacke	tCounterE	<del>ntrv</del>
		-not-accessible		4
	STATUS			
	DESCRIPTION			
		<del>ble provides one</del>	row for o	ach corrigo flor
		exed by ifIndex, w		
	to inde	CmnCpsSfId."		epopriachaareoo,
		inder imentform		
		index, wmanIf2CmnC	рээтмаснае	<del>aress,</del>
	wma	mIf2CmnCpsSfId }		1
	<del>::= { wmanl</del>	<del>f2BsSsPacketCount</del>	erTable 1	<del>_}</del>
			(	
WmanIt	:2BsSsPacketCo	wunterEntry::= SEQ	<del>JUENCE {</del>	
		MacSduCount		<del>Counter64,</del>
	wmanIf2BsSs	OctetCount		<del>Counter64,</del>
	wmanIf2BsSs	ResetCounter		INTECER,
	wmanIf2BsSs	ResetCounterTime		TimeStamp}
				E J
wmanIf	2BsSsMacSduCc	unt OBJECT-TYPE		
	SYNTAX			
	MAX-ACCESS			
	STATUS			
	- DESCRIPTION		number - C	
		bject counts the		mac sous that h
		ransmitted or rec		`
	<del>::= { wmanI</del>	f2BsSsPacketCount	erEntry 1	<del>_}</del>
wmanIf	2BsSsOctetCou	int OBJECT-TYPE		
	SYNTAX	- Counter64		
	MAX-ACCESS	-read-only		
	STATUS	current		
	STATUS DESCRIPTION	<del>- current</del> I	numbers of	astata of MDC (
	STATUS DESCRIPTION "This c	<del>- current</del> H Abject counts the-		
	STATUS DESCRIPTION "This c that h	-current F bbject counts the nave been transmit	ted or re	<del>ceived."</del>
	STATUS DESCRIPTION "This c that h	<del>- current</del> H Abject counts the-	ted or re	<del>ceived."</del>
	STATUS DESCRIPTION "This c that h ::= { wmanI	-current F Bybject counts the have been transmit f2BsSsPacketCount	ted or re	<del>ceived."</del>
	STATUS DESCRIPTION "This c that h ::= { wman1 2BsSsResetCou	-current F bbject counts the have been transmit f2BsSsPacketCount mter OBJECT-TYPE	erEntry 2	<del>ceived."</del>
	STATUS DESCRIPTION "This c that h ::= { wman1 2BsSsResetCou	-current H H Have been transmit H2BsSsPacketCount Hater OBJECT TYPE INTEGER {null(0)	ted or recentry 2	<del>ceived."</del>
	STATUS DESCRIPTION "This c that h ::= { wman1 2BsSsResetCou SYNTAX	current bject counts the ave been transmit f2BsSsPacketCount anter OBJECT-TYPE INTEGER {null(0) resetCo	ted or recentry 2	<del>ceived."</del>
	STATUS DESCRIPTION "This c that h ::= { wman1 2BsSsResetCou SYNTAX	current bject counts the ave been transmit f2BsSsPacketCount anter OBJECT-TYPE INTEGER {null(0) resetCo	ted or recentry 2	<del>ceived."</del>
	STATUS DESCRIPTION "This c that h ::= { wman1 2BsSsResetCou	- current 	ted or recentry 2	<del>ceived."</del>
	STATUS DESCRIPTION "This c that h ::= { wmanI 2BsSsResetCou SYNTAX MAX-ACCESS STATUS	- current 	ted or recentry 2	<del>ceived."</del>
	STATUS DESCRIPTION "This c that h ::= { wman1 2BsSsResetCou SYNTAX MAX-ACCESS STATUS DESCRIPTION	- current 	ted or red erEntry 2 <del>7</del> wunter(1)}	<del>zeived."</del> <del>}</del>
	STATUS DESCRIPTION "This c that h ::= { wmanI 2BsSsResetCou SYNTAX MAX-ACCESS STATUS DESCRIPTION "When t	- current 	ted or red cerEntry 2 <del>,</del> cunter(1)}	<del>setCounter(1), t</del>
	STATUS DESCRIPTION "This c that h ::= { wmanI 2BsSsResetCou SYNTAX MAX-ACCESS SYNTAX MAX-ACCESS STATUS DESCRIPTION "When t corres	- current 	ted or red cerEntry 2 <del>,</del> punter(1)} SET to red packet co	<del>setCounter(1), tunters will be 1</del>
	STATUS DESCRIPTION "This c that h ::= { wman1 2BsSsResetCou SYNTAX MAX-ACCESS SYNTAX MAX-ACCESS STATUS DESCRIPTION "When t corres A CET	- current 	ted or re- erEntry 2 <del>7</del> wunter(1)} SET to re- packet co- wed on this	setCounter(1), t unters will be r s object will al
	STATUS DESCRIPTION "This c that h ::= { wman1 2BsSsResetCou SYNTAX MAX-ACCESS STATUS DESCRIPTION "When t corres A GET return	<pre>-currentcurrent</pre>	ted or re- erEntry 2 <del>7</del> wunter(1)} SET to re- packet co- wed on thi- mter is no	setCounter(1), t unters will be r s object will al
	STATUS DESCRIPTION "This c that h ::= { wman1 2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "When t corres A CET return the pa	-current 	ted or re- erEntry 2 <del>7</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del>	setCounter(1), t unters will be r s object will al prmally reset af retrieved. "
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	STATUS DESCRIPTION "This c that h ::= { wmanI :2BsSsResetCou SYNTAX MAX-ACCESS STATUS DESCRIPTION "When t corres A GET return the pa ::= { wmanI	- current - current - beject counts the - bave been transmit - f2BsSsPacketCount - mater OBJECT TYPE - INTEGER {null(0) - resetCo - read write - current - curent - current - c	ted or re- erEntry 2 <del>7</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del>	setCounter(1), t unters will be r s object will al prmally reset af retrieved. "
	STATUS DESCRIPTION "This c that h ::= { wmanI 2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "When t corres A GET return the pa ::= { wmanI 2BsSsResetCou	- current - current - beject counts the - bave been transmit - f2BsSsPacketCount - mter OBJECT TYPE - INTEGER {null(0) - resetCe - read write - current - curent - current - current - cu	ted or re- erEntry 2 <del>7</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del>	setCounter(1), t unters will be r s object will al prmally reset af retrieved. "
	STATUS DESCRIPTION "This c that h ::= { wmanI 2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "When t corres A GET return the pa ::= { wmanI 2BsSsResetCou SYNTAX	- current - current - beject counts the - bave been transmit - f2BsSsPacketCount - main object TYPE - INTEGER {null(0) - resetCe - read write - current - curent - current - current - cu	ted or re- erEntry 2 <del>7</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del> <del>2</del>	setCounter(1), t unters will be r s object will al prmally reset af retrieved. "
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wmanIf	STATUS DESCRIPTION "This c that f ::= { wmanI 2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "When t corres A GET return the pa ::= { wmanI 2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION	- current - current	ted or reverse of the set of the	<pre>setCounter(1), t unters will be r s object will al prmally reset af retrieved. " }</pre>
wmanIf	STATUS DESCRIPTION "This c that f ::= { wmanI 2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "When t corres A GET return the pa ::= { wmanI 2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION	<pre>- current { biject counts the inve been transmit f2BsSsPacketCount if2BsSsPacketCount inter OBJECT TYPE INTEGER {null(0) resetCe read-write current i bis attribute is ponding entry of operation perform null(0). The count if2BsSsPacketCount if2BsSsPacketCo</pre>	ted or reverse of the set of the	<pre>setCounter(1), t unters will be r s object will al prmally reset af retrieved. " }</pre>
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wmanIf	STATUS DESCRIPTION "This c that f ::= { wmanI :2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "When t corres A GET returr the pa ::= { wmanI :2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "Indica reset.	- current - current - beiget counts the - bave been transmit - f2BsSsPacketCount - mter OBJECT-TYPE - INTEGER {null(0) - resetCe - read-write - current - current - bis attribute is - ponding entry of - operation perform - null(0). The count - null(0). The count - current - null(0). The count - current - count - inform - f2BsSsPacketCount - mterTime OBJECT T - TimeStamp - read-only - current 	time when	<pre>setCounter(1), t setCounters will be r s object will al prmally reset af retrieved. " } the counter is</pre>
wmanIf	STATUS DESCRIPTION "This c that f ::= { wmanI :2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "When t corres A GET returr the pa ::= { wmanI :2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "Indica reset.	- current - current - beiget counts the - bave been transmit - f2BsSsPacketCount - mter OBJECT-TYPE - INTEGER {null(0) - resetCe - read-write - current - current - bhis attribute is - ponding entry of - operation perform - null(0). The count - null(0). The count - count inform - f2BsSsPacketCount - mterTime OBJECT T - TimeStamp - read-only - current - current - current - current - current	time when	<pre>setCounter(1), t setCounters will be r s object will al prmally reset af retrieved. " } the counter is</pre>
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wmanIf	STATUS DESCRIPTION "This c that f ::= { wmanI 2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "When t corres A GET return the pa ::= { wmanI 2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "Indica reset. ::= { wmanI	- current biject counts the have been transmit f2BsSsPacketCount if2BsSsPacketCount inter OBJECT TYPE INTEGER {null(0) resetCe read write - current bis attribute is ponding entry of operation perform - null(0). The count if2BsSsPacketCount if2BsSsPacketCount f tes the date and - if2BsSsPacketCount - current - current	time when	<pre>setCounter(1), t setCounters will be r s object will al prmally reset af retrieved. " } the counter is</pre>
wmanIf	STATUS DESCRIPTION "This c that f ::= { wmanI :2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "When t corres A GET returr the pa ::= { wmanI :2BsSsResetCou SYNTAX MAX ACCESS STATUS DESCRIPTION "Indica reset.	- current biject counts the have been transmit f2BsSsPacketCount if2BsSsPacketCount inter OBJECT TYPE INTEGER {null(0) resetCe read write - current bis attribute is ponding entry of operation perform - null(0). The count if2BsSsPacketCount if2BsSsPacketCount f tes the date and - if2BsSsPacketCount - current - current	time when	<pre>setCounter(1), t setCounters will be r s object will al prmally reset af retrieved. " } the counter is</pre>

```
wmanIf2BsOtaUsageDataRecordTable OBJECT-TYPE
1
2
                          SEQUENCE OF WmanIf2BsOtaUsageDataRecordEntry
              SYNTAX
3
              MAX-ACCESS not-accessible
 4
                          current
              STATUS
5
              DESCRIPTION
6
                  "This table contains counters to keep track of the number
7
                   of packets and octets that have been received or
8
                   transmitted over the air interface. BS may delete some
9
                   OTA UDR in wmanIf2BsOtaUsageDataRecordTable after they
10
                   have been transferred to the AAA server."
              ::= { wmanIf2BsPacketCs 2 }
11
12
     wmanIf2BsOtaUsageDataRecordEntry OBJECT-TYPE
13
14
                          WmanIf2BsOtaUsageDataRecordEntry
              SYNTAX
15
              MAX-ACCESS not-accessible
16
              STATUS
                          current
              DESCRIPTION
17
18
                 "This table provides one row for each service flow, and
19
                  is indexed by ifIndex, wmanIf2BsSsMacAddress, wmanIf2BsCid,
                  and wmanIf2BsSessionId. Since MAC management CID (i.e. basic
20
                  , primary, and 2nd management) share the same CID for both
21
22
                  UL and DL, it should use the QoS parameter set to
23
                  distinguish which entry is DL or UL."
24
              INDEX { ifIndex,
25
                      wmanIf2BsSsMacAddress,
26
                      wmanIf2BsCid,
27
                      wmanIf2BsSessionId }
28
              ::= { wmanIf2BsOtaUsageDataRecordTable 1 }
29
30
     WmanIf2BsOtaUsageDataRecordEntry::= SEQUENCE {
              wmanIf2BsSessionId
                                                       Unsigned32,
31
              wmanIf2BsServiceFlowId
32
                                                       Unsigned32,
33
              wmanIf2BsMacSduCount
                                                       Counter64,
34
              wmanIf2BsOctetCount
                                                       Counter64,
35
              wmanIf2BsSessionEstablishTime
                                                       TimeStamp,
36
              wmanIf2BsSessionTerminateTime
                                                       TimeStamp,
37
              wmanIf2BsGlobalServiceClass
                                                       WmanIf2GlobalSrvClass,
38
              wmanIf2BsQoSProfileIndex
                                                       INTEGER }
39
40
     wmanIf2BsSessionId OBJECT-TYPE
                          Unsigned32 (1 .. 4294967295)
41
              SYNTAX
42
              MAX-ACCESS not-accessible
43
              STATUS
                          current
44
              DESCRIPTION
45
                  "An index identifies the accounting seesion within a CID.
                   An accounting session may be created or ended, based on
46
47
                   certain events, for example
48
                       - QoS parameter set change in a CID
49
                       - wmanIf2BsServiceFlowState is changed
50
                       - an SS registers at the BS
51
                       - an MS handoffs to another BS"
52
              ::= { wmanIf2BsOtaUsageDataRecordEntry 1 }
53
54
     wmanIf2BsServiceFlowId OBJECT-TYPE
                          Unsigned32 (1 .. 4294967295)
55
              SYNTAX
56
              MAX-ACCESS read-only
57
              STATUS
                          current
              DESCRIPTION
58
59
                  "A 32 bit quantity that uniquely identifies a service flow.
60
                   wmanIf2BsServiceFlowId should return '0' for MAC management
61
                   (i.e. basic, primary, and 2nd management CID)."
62
              ::= { wmanIf2BsOtaUsageDataRecordEntry 2 }
63
     wmanIf2BsMacSduCount OBJECT-TYPE
64
```

```
Counter64
1
              SYNTAX
2
              MAX-ACCESS read-only
3
              STATUS
                          current
4
              DESCRIPTION
5
                  "This object counts the number of MAC SDUs or MAC messages
                   that have been transmitted or received over the air
6
7
                   interface. For MAC management CID, wmanIf2BsMacSduCount
8
                   tracks SDU count on DL and UL."
9
              ::= { wmanIf2BsOtaUsageDataRecordEntry 3 }
10
     wmanIf2BsOctetCount OBJECT-TYPE
11
12
              SYNTAX
                          Counter64
             MAX-ACCESS read-only
13
14
                         current
              SULTATES
15
              DESCRIPTION
16
                  "This object counts the number of octets of MAC SDUs or MAC
17
                   messages that have been transmitted or received over the
18
                   air interface."
              ::= { wmanIf2BsOtaUsageDataRecordEntry 4 }
19
20
21
     wmanIf2BsSessionEstablishTime OBJECT-TYPE
22
              SYNTAX
                          TimeStamp
23
              MAX-ACCESS read-only
24
              STATUS
                          current
              DESCRIPTION
25
                  "Indicates the date and time when the session is established
26
27
28
              ::= { wmanIf2BsOtaUsageDataRecordEntry 5 }
29
30
     wmanIf2BsSessionTerminateTime OBJECT-TYPE
31
              SYNTAX
                          TimeStamp
             MAX-ACCESS read-only
32
33
              STATUS
                          current
34
              DESCRIPTION
35
                  "Indicates the date and time when the session is terminated
36
                   . "
37
              ::= { wmanIf2BsOtaUsageDataRecordEntry 6 }
38
     wmanIf2BsGlobalServiceClass OBJECT-TYPE
39
40
              SYNTAX
                          WmanIf2GlobalSrvClass
41
             MAX-ACCESS read-only
42
              STATUS
                          current
43
              DESCRIPTION
44
                  "This object defines the QoS parameter set used in this
45
                   session. When '0' is returned from reading this object, it
                   means either no global service class is available for this
46
47
                   session, or its Qos profile may be defined in the entry
48
                   pointed by wmanIf2BsQoSProfileIndex."
49
              REFERENCE
50
                  "Subclause 6.3.14.4.1 Table 124a in IEEE Std 802.16e-2005"
51
              ::= { wmanIf2BsOtaUsageDataRecordEntry 7 }
52
     wmanIf2BsQoSProfileIndex OBJECT-TYPE
53
54
              SYNTAX
                          INTEGER (1 .. 65535)
              MAX-ACCESS read-only
55
             STATUS
56
                          current
57
             DESCRIPTION
58
                  "This index points to an entry in wmanIf2CmnQoSProfileTable
59
                   that defines the the QoS parameter set used in this
60
                   session. When '0' is returned from reading this object, it
61
                   means the QoS profile either is not available for this
62
                   session."
63
             REFERENCE
                  "Subclause 6.3.13 and 6.3.14 in IEEE Std 802.16-2004"
64
```

1 2	<pre>::= { wmanIf2BsOtaUsageDataRecordEntry 8 }</pre>
3	
4	
5	
6	
7	
8	
9	
10	
11	