Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Reply Proposal for Cor 2 Change Request 124.**
Date Submitted	**2006-11-06**
Source(s)	Lei Wang 　　　　　　　　　　　　 Voice: +1-858-480-3240 　　　　　　　　　　　　　　　　 mailto: lwang@nextwave.com Erik Colban 　　　　　　　　　　　　　　　　 Voice: +1-858-480-3240 　　　　　　　　　　　　　　　　 mailto: ecolban@nextwave.com NextWave Broadband 12670 High Bluff Dr, 　　　　　　 Fax:　[Fax Number] San Diego, CA 92130, USA
Re:	IEEE 802.16 Letter Ballot #23
Abstract	This contribution is a part of a ballot comment to IEEE 802.16 Letter Ballot #23, change request 124. It proposes an amendment to Cor 2 change request 124.
Purpose	Modify Cor 2 change request 124 as proposed in this contribution.
Notice	This document has been prepared to assist IEEE 802.16. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.
Release	The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE's name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE's sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16.
Patent Policy and Procedures	The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures <http://ieee802.org/16/ipr/patents/policy.html>, including the statement "IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard." Early disclosure to the Working Group of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and increase the likelihood that the draft publication will be approved for publication. Please notify the Chair <mailto:chair@wirelessman.org> as early as possible, in written or electronic form, if patented technology (or technology under patent application) might be incorporated into a draft standard being developed within the IEEE 802.16 Working Group. The Chair will disclose this notification via the IEEE 802.16 web site <http://ieee802.org/16/ipr/patents/notices>.

Proposed Amendment of Change Request 124

Erik Colban
NextWave Broadband Inc.

Introduction

The originator of change request 124 (Erik Colban) withdrew this comment through email sent on September 9/16/2006 to the maintenance group chair (Jon Labs). The reason given to Jon was that the original comment proposed no remedy. Another reason is that the IANA ifType (184), to which this change relates, is obsolete and the Netman task group has told IANA that IEEE intends to deprecate the use of this type in the standards. There is no sense in trying to fix something that will be removed.

However, the group's resolution is good if additional changes are made to replace IANA IfType 184 by the newly assigned IANA IfType 237.

The following shows the changes needed to the 802.16f standard.

Changes

On page 5:

9.3.2.1 MIB-2 integration

The Internet Assigned Numbers Authority (IANA) has assigned the following ifType ieee80216WMAN to point-to-multipoint broadband wireless access. Previously assigned ifType propBWAp2Mp is deprecated and should not be used. The ifType entities are defined by IANA as follows:

```
        IANAifType ::= TEXTUAL-CONVENTION
              SYNTAX INTEGER {
                    propBWAp2Mp (184),  -- PropBroadbandWirelessAccesspt2multipt
                                -- use of this ifType for IEEE 802.16 WMAN
                                -- interfaces as per IEEE Std 802.16f is
                                -- deprecated and ifType ieee80216WMAN should be used instead.

                    ieee80216WMAN (237), -- IEEE 802.16 WMAN interface
              }
```

Deleted: propBWAp2Mp (184) -- prop broadband wireless access point to multipoint¶

On page 6:

Deleted: WirelessMAN interface table is located under transmission subtree, as follows.¶
wmanIfMib ::= {transmission 184}-- WMAN interface table[2]¶

9.3.2.2 Usage of MIB-II tables

The "Interfaces" group of MIB-II, in RFC2863, has been designed to manage various sub-layers (e.g. MAC and PHY) beneath the internetwork-layer for numerous media-specific interfaces. The implementation of ifTable in SNMP managed BS and SS is mandatory.

The implementation of the ifTable for the BS shall create one row for each BS sector. The following recommendations shall be applied to each row defining a BS sector:

— ifIndex value is implementation specific
— ifType shall be set to ieee80216WMAN (value of 237 as defined in 9.3.2.1)

Deleted: propBWAp2Mp

Deleted: 184

— ifSpeed shall be set to the channel bandwidth
— ifPhysAddress shall be set to the MAC Address of the BS sector
— All other columnar objects shall be initialized as specified in RFC2863.

Table 1 provides an example.

Table 1—Example of the usage of ifTable objects for base station

ifTable	ifIndex	ifType (IANA)	ifSpeed	ifPhysAddress	ifAdminStatus	ifOperStatus
BS Sector 1	1	ieee80216WMAN	channel bandwidth	MAC address of BS sector	Administration Status	Operational Status
BS Sector 2	2	ieee80216WMAN	channel bandwidth	MAC address of BS sector	Administration Status	Operational Status
BS Sector 3	3	ieee80216WMAN	channel bandwidth	MAC address of BS sector	Administration Status	Operational Status
Ethernet			channel bandwidth	MAC address	Administration Status	Operational Status

The implementation of the ifTable for SS must create one row for each SS WirelessMAN interface.
Additional rows may be necessary to support other network interfaces, such as Ethernet. The following
recommendations must be applied to each row:

— ifIndex value is implementation specific
— ifType shall be set to ieee80216WMAN (value of 237 as defined in 9.3.2.1)
— ifSpeed shall be set to the channel bandwidth
— ifPhys Address shall be set to the SS MAC Address (of the WirelessMAN interface)
— All other columnar objects shall be initialized as specified in RFC2863

On page 7:

Table 2 provides an example.

Table 2—Example of the usage of ifTable objects for subscriber station

ifTable	ifIndex	ifType (IANA)	ifSpeed	ifPhysAddress	ifAdminStatus	ifOperStatus
SS	1	ieee80216WMAN	channel bandwidth	MAC address of SS	Administration Status	Operational Status
Ethernet			channel bandwidth	MAC address	Administration Status	Operational Status

In sections 13.1-13.2:

Replace all occurrences of the string "1.3.6.1.2.1.10.184" with "1.0.8802.16.2.237".

In section 13.3 (and in the MIBs that are distributed as separate files):

Replace all occurrences of propBWAp2Mp with ieee80216WMAN.