Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Extension of wmanIfMib for improved manageability of 802.16d equipment**
Date Submitted	**2005-05-05**
Source(s)	Krzysztof Dudzinski kdudzins@airspan.com Airspan Communications Ltd Cambridge House Oxford Road Uxbridge UB8 1UN UK
Re:	Contribution to revision of IEEE P802.16f/D3
Abstract	This contribution suggests changes to sub-clause 9.3.2.2 to improve clarity and remove ambiguity.
Purpose	Adopt for 802.16f amendment.
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>.

Changes to sub-clause 9.3.2.2 'Usage of MIB-II Tables'

Krzysztof Dudzinski
Airspan Networks

1. Identified problems

This contribution proposes changes to address the following problems:

1. Table 1 and Table 2 are examples of the usage of ifTable but they are presented as normative recommendations in the text
2. Paragraph before Table 2 restricts explicitly the implementation of the SS to a single interface. The standard doesn't justify such a restriction
3. The use of undefined terms of 'controller' may lead to misinterpretation and is potentially implementation specific.

2. Remedy

Apply the following editorial instructions.

"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~~. ifTable in MIB-II is used to access the wmanIfMib.~~ The implementation of ifTable in SNMP managed BS and SS is mandatory.

~~Table 1 describes some key attributes in the ifTable that will be reused in the BS wmanIfMib. When the SNMP agent is implemented in a common base station controller, each BS sector will have an entry row in the ifTable. When the SNMP agent is implemented in the sector controller, there is only one entry for the BS sector in the ifTable.~~
The implementation of the ifTable for BS must create one row for each BS sector. The following recommendations must be applied to each row defining BS sector:

- ifIndex value is implementation specific
- ifType must be set to propBWAp2Mp (value of 184 as defined in 9.3.2.1)
- ifSpeed must be null
- ifPhysAddress must be set to the MAC Address of the BS sector
- All other columnar objects must be initialized as specified in RFC2863

Instruction to editor: In the table use actual example numbers of the ifIndex e.g. 1,2,3,4.

Table 1—Example of the usage of ifTable objects for Base Station

~~Table 2 show the usage of ifTable for SS. There is only one entry for the SS itself in the interface table.~~
The implementation of the ifTable for SS must create one row for each SS WirelessMAN interface. The following recommendations must be applied to each row:

- ifIndex value is implementation specific
- ifType must be set to propBWAp2Mp (value of 184 as defined in 9.3.2.1)
- ifSpeed must be null
- ifPhysAddress must be set to the SS MAC Address (of the WirelessMAN interface)
- All other columnar objects must be initialized as specified in RFC2863

Instruction to editor: In the table use actual example numbers of the ifIndex e.g. 1,2.

Table 2—Example of the usage of ifTable objects for Subscriber Station