In the description for wmanIfBsChannelMeasurementEntry, the instruction is to increment by 1 and wrap around when it reaches the limit. What is this limit? Is this just the length of the sequence (i.e. the size of the wmanIfBsChannelMeasurementTable)? If it is the $2^{32}$, then is there an implication re storage of values?

The

Quote from description:
Each entry in the table contains RSSI and CINR signal quality measurement on signal received from the SS. The primary index is the ifIndex with iType of propBWAp2Mp identifying the BS sector. wmanIfBsSsMacAddress identifies the SS from which the signal was received. wmanIfBsChannelDirection is the index to the direction of the channel. wmanIfBsHistogramIndex is the index to histogram samples. Since there is no time stamp in the table, wmanIfBsHistogramIndex should be increased monotonically, and warps around when it reaches the limit."

Suggested Remedy
Page 72, line 5.
Clarify the meaning of the "limit" in both wmanIfBsChannelMeasurementEntry and wmanIfBsChannelMeasurementTable.

Proposed Resolution Recommendation: Accepted-Modified Recommendation by
Change the description from "Each entry in the table contains RSSI and CINR signal quality measurement on signal received from the SS. The primary index is the ifIndex with iType of propBWAp2Mp identifying the BS sector. wmanIfBsSsMacAddress identifies the SS from which the signal was received. wmanIfBsChannelDirection is the index to the direction of the channel. wmanIfBsHistogramIndex is the index to histogram samples. Since there is no time stamp in the table, wmanIfBsHistogramIndex should be increased monotonically, and warps around when it reaches the limit."

Each entry in the table contains RSSI and CINR
Each entry in the table contains RSSI and CINR signal quality measurement on signal received from the SS. The primary index is the ifIndex with ifType of propBWAp2Mp identifying the BS sector. wmanIfBsSsMacAddress identifies the SS from which the signal was received. wmanIfBsChannelDirection is the index to the direction of the channel. wmanIfBsHistogramIndex is the index to histogram samples. Since there is no time stamp in the table, wmanIfBsHistogramIndex should be increased monotonically, and warps around when it reaches the implementation specific limit.

Reason for Recommendation

Resolution of Group: Accepted-Modified

Change the description from
"Each entry in the table contains RSSI and CINR signal quality measurement on signal received from the SS. The primary index is the ifIndex with ifType of propBWAp2Mp identifying the BS sector. wmanIfBsSsMacAddress identifies the SS from which the signal was received. wmanIfBsChannelDirection is the index to the direction of the channel. wmanIfBsHistogramIndex is the index to histogram samples. Since there is no time stamp in the table, wmanIfBsHistogramIndex should be increased monotonically, and warps around when it reaches the limit."

to

Each entry in the table contains RSSI and CINR signal quality measurement on signal received from the SS. The primary index is the ifIndex with ifType of propBWAp2Mp identifying the BS sector. wmanIfBsSsMacAddress identifies the SS from which the signal was received. wmanIfBsChannelDirection is the index to the direction of the channel. wmanIfBsHistogramIndex is the index to histogram samples. Since there is no time stamp in the table, wmanIfBsHistogramIndex should be increased monotonically, and warps around when it reaches the implementation specific limit.

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items
<table>
<thead>
<tr>
<th>Editor's Notes</th>
<th>Editor's Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>k) done</td>
</tr>
</tbody>
</table>

Editor's Questions and Concerns

Editor's Action Items
There is no interoperable method yet described to use of "other protocols for SS management".

This statement needs to be removed and handled in 802.16g documentation.

Proxy behavior for SNMP mode is ill-defined, and represents a loss of information for SS management by NMS. It also constitutes a new mandatory requirement for the BS, given only optional support by SS.

Suggested Remedy
Remove the paragraph describing "SNMP proxy" behavior and other protocols.

[Alternatively, someone could create a table for each SS value indicating whether the information is known by the BS either: because the BS knows about synchronized state info (1), via cached SNMP polls (2), via on-demand SNMP polls (3), other notification methods (4?), or is unknowable by the BS (5).]

As a side note, I expect that the author had actually meant to say "relay" rather than "proxy". A proxy implies that the BS is actually intercepting SNMP requests from the network management framework that was intended for the SS. Whereas in the case of a "relay", the BS is being asked about the SS state, explicitly.

Proposed Resolution Recommendation: Accepted-Modified
Remove the paragraph describing "SNMP proxy" behavior and other protocols.

Reason for Recommendation

Resolution of Group Decision of Group: Accepted-Modified
Remove the paragraph describing "SNMP proxy" behavior and other protocols.

Reason for Group’s Decision/Resolution
Group's Notes

Group's Action Items

Editor's Notes

Editor's Actions

k) done

Editor's Questions and Concerns

Editor's Action Items
SMIPv1 recommends not to use 0 in enumerated integer values.
See RFC2578, Sect. 7.1.1

The following are all zero-based enumerated integers:

WmanIfPhsRulVerifyType: phsVerifyEnable
WmanIfCsSpecification: noCs
WmanIfDataEncryptAlgLd: none
WmanIfDataAuthAlgLd: noDataAuthentication
WmanIfOfdmFecCodeType: bpskCc1-2
WmanIfOfdmaFecCodeType: qpskCc1-2
WmanIfArqSupportType: arqNotSupported
WmanIfMacCrcSupport: noMacCrcSupport
WmanIfIpVersionType: undefined
WmanIfPhsSupportType: noPhsSupport
wmanIfBsQoSFixedVsVariableSduInd: variableLength
wmanIfBsClassifierRuleNetProtocolType: none
wmanIfBsSsResetCounter: null
wmanIfBsSsManagementSupport: unmanagedSs
wmanIfBsSsIpManagementMode: unmanaged
wmanIfBsSsAasBroadcastPermission: contBasedBwReqPermitted
wmanIfBsCfgExtAutoSfidEnabled: autoSfidDisabled
wmanIfBsCfgExtAasChanBckReqResolution: aasChanBckReqRes00
wmanIfBsCfgExtAasBeamReqResolution: aasBeamReqRes000
wmanIfBsCfgExtResetSector: actionResetSectorNoAction
wmanIfBsSsMacCounterReset: null
wmanIfBsSsActionsResetSs: actionsResetSsNoAction
wmanIfBsSsActionsAbortSs: actionsAbortSsNoAction
wmanIfBsSsActionsDeReRegSs: actionsDeReRegSsNoAction
wmanIfBsSsActionsDeReRegSsCode: actionsDeReRegSsCodeChangeChan
wmanIfBsSsPkmAuthRejectErrorCode: noInformation
wmanIfBsSsPkmAuthInvalidErrorCode: noInformation
wmanIfBsSsPkmAuthValidStatus: unknown
wmanIfBsPkmTekSAType: primarySA
wmanIfBsPkmKeyRejectErrorCode: noInformation
wmanIfBsPkmTekInvalidErrorCode: noInformation
wmanIfBsPowerStatus: priOnSecStandby
wmanIfBsOfdmSubChReqRegionFull: oneSubchannel
wmanIfBsOfdmFrameDurationCode: duration2dot5ms
Please make sure that integer enumerations are not zero-based. Redefine them as appropriate. (They should also be defined as a specific size integer, like Integer32 for SMIv2.)

Suggested Remedy
Please make sure that integer enumerations are not zero-based. Redefine them as appropriate. (They should also be defined as a specific size integer, like Integer32 for SMIv2.)

Proposed Resolution Recommendation: **Rejected**
To reject this proposal.

Reason for Recommendation
The enumerations use the "0" constants as defined in the 802.16 standard. RFC2578 actually allows any value of Integer32.

Resolution of Group Decision of Group: **Rejected**
For: 0
Against: 3

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items
2005/06/27

k) done

Editor's Notes  Editor's Actions  Editor's Questions and Concerns  Editor's Action Items
The following tables have read-write row status (instead of read-create).

wmanIfBsConfigurationTable
wmanIfBsConfigExtTable
wmanIfBsCapabilitiesConfigTable
wmanIfBsOfdmCapabilitiesConfigTable
wmanIfSsConfigurationTable
wmanIfCmnBsSsConfigurationTable

Suggested Remedy
Change the indicated row-status from read-write to read-create.

Proposed Resolution Recommendation: Accepted-Modified
Remove the row status from the tables below

wmanIfBsConfigurationTable
wmanIfBsConfigExtTable
wmanIfBsCapabilitiesConfigTable
wmanIfBsOfdmCapabilitiesConfigTable
wmanIfSsConfigurationTable
wmanIfCmnBsSsConfigurationTable

Reason for Recommendation
The entries in the following tables are read-write, so row status is not needed.

wmanIfBsConfigurationTable
wmanIfBsConfigExtTable
wmanIfBsCapabilitiesConfigTable
wmanIfBsOfdmCapabilitiesConfigTable
wmanIfSsConfigurationTable
wmanIfCmnBsSsConfigurationTable

Resolution of Group Decision of Group: Accepted-Modified
Remove the row status from the tables below
The entries in the following tables are read-write, so row status is not needed.
Instead of defining our own, we should take advantage of existing work, such as:
- RFC 3878: Alarm Reporting Control MIB
- RFC 3014: Notification Log MIB
- RFC 2981: Event MIB

I believe that RFC 3014 suits our purpose the best.

Proposed Resolution: Accepted-Modified

Reason for Recommendation
We already use RFC3014 as the basis; however, we have removed some of the complexities, and have added a few features that are beneficial to 802.16/2004.

Resolution of Group: Accepted-Modified

Group's Action Items

k) done
The BS Event log configuration (wmanIfBsEventLogConfigTable) is indexed by ifIndex. So, there could be multiple entries in this table. There is no corresponding index for wmanIfBsEventLogTable.

The same is true for wmanIfSsEventLogConfigTable and wmanIfSsEventTable.

**Suggested Remedy**

Provide the same indexing options for the EventLog and each corresponding ConfigTable. (indexed by IfIndex)

**Proposed Resolution**

*Accepted-Modified* Recommendation by

See the resolutions in comments of 183 and 332L

**Reason for Recommendation**

Resolution of Group *Accepted-Modified* Decision of Group

See the resolutions in comments of 183 and 332L

**Reason for Group’s Decision/Resolution**

Group’s Notes

Group’s Action Items

**Editor’s Notes**

Editor’s Actions k) done

**Editor’s Questions and Concerns**

**Editor’s Action Items**
The following tables contain read-create row status column but the remaining columns are read-write.

wmanIfBsOfdmUplinkChannelTable
wmanIfBsOfdmDownlinkChannelTable
wmanIfBsOfdmaUplinkChannelTable
wmanIfBsOfdmaDownlinkChannelTable

This should be considered an error.

**Suggested Remedy**

Change columns that may be created via row status to read-create.

**Proposed Resolution**

Remove the row status of the following tables

wmanIfBsOfdmUplinkChannelTable
wmanIfBsOfdmDownlinkChannelTable
wmanIfBsOfdmaUplinkChannelTable
wmanIfBsOfdmaDownlinkChannelTable

**Reason for Recommendation**

Remove the row status of the following tables

wmanIfBsOfdmUplinkChannelTable
wmanIfBsOfdmDownlinkChannelTable
wmanIfBsOfdmaUplinkChannelTable
wmanIfBsOfdmaDownlinkChannelTable

**Reason for Group’s Decision/Resolution**

Group’s Notes
Group’s Action Items

Editor’s Notes
Editor’s Actions

Editor’s Questions and Concerns

Editor’s Action Items

k) done
The WMAN-IF-MIB is defined under the "transmission" arc, as is typical for managed objects that must be indexed by ifIndex. But this MIB contains a large number of elements that are not interface-specific.

Consider these management objects that are device attributes and are not tied to an interface:

The "wmanIfBsSnmpAgentConfigTable" (p.154) is a table with a fixed number of rows (1).

```
WmanIfBsSnmpAgentConfigEntry ::= SEQUENCE {
    wmanIfBsSnmpAgentConfigIndex               INTEGER, 
    wmanIfBsSnmpAgentV1V2TrapDestlpAddrType   InetAddressType, 
    wmanIfBsSnmpAgentV1V2TrapDestlpAddr       InetAddress, 
    wmanIfBsSnmpAgentV1V2TrapDestPort         Integer32, 
    wmanIfBsSnmpAgentResetBs                   INTEGER, 
    wmanIfBsSnmpAgentConfigRowStatus          RowStatus}
```

The "wmanIfSsConfigFileEncodingTable" (p. 156) is a table with a fixed number of rows (1).

```
WmanIfSsConfigFileEncodingEntry ::= SEQUENCE {
    wmanIfSsMicConfigSetting         OCTET STRING, 
    wmanIfSsVendorId     OCTET STRING, 
    wmanIfSsHwId         OCTET STRING, 
    wmanIfSsSwVersion    OCTET STRING, 
    wmanIfSsUpgradeFileName   OCTET STRING, 
    wmanIfSsSwUpgradeTftpServer        InetAddress, 
    wmanIfSsTftpServerTimeStamp       DateAndTime
```

Similarly, trap bits defined for "wmanIfBsTrapControlRegister" (p.108) include

```
   wmanIfBsPowerStatusChange
   wmanIfBsFanStatusChange
   wmanIfBsTemperatureChange
   wmanIfBsEvent
```

It is hard to understand why "wmanIfBsFanStatusChange" is in an IF-MIB.

**Suggested Remedy**

Remove these management objects from the wmanIf arc (this MIB). Move these management objects to the arc already defined for ieee802.
Move these management objects to the arc already defined for IEEE802 devices.

Namely iso(1).std(0).iso8802(8802).

Consider iso(1).std(0).iso8802(8802).wman(16).wmanDev(1) ...

See section 13.2 of the 802b-2004 standard.

More examples of how this is used are discussed in section 2.9 of:
[ grouper.ieee.org/groups/802/802_tutorials/chair_guidelines_1-6.pdf ]
Or [ ieee802.org/secmail/pdf00157.pdf ]

It is inappropriate for the interface MIB to contain elements that are not specific to the RF interface we're describing. There are numerous needs which need to be incorporated into a WMAN-DEV-MIB”.

Examples I found with a quick google search:
iso(1).std(0).iso8802(8802).ieee802dot1(1).ieee802dot1mibs(1).

Editor to create Device MIB—WMAN-DEV-MIB in iso(1).std(0).iso8802(8802).wman(16).wmanDev(1) .. following the guidelines in
[ grouper.ieee.org/groups/802/802_tutorials/chair_guidelines_1-6.pdf ]
and [ ieee802.org/secmail/pdf00157.pdf ]

Editor to move wmanIfBsSnmpAgentConfigTable, wmanIfSsConfigFileEncodingTable, tables under wmanIfBsEventLog and wmanIfSsEventLog subtree, and other appropriate tables (e.g. device related traps) to WMAN-DEV-MIB

Editor to remove ifIndex, and create appropriate index for tables moved to WMAN-DEV-MIB.

Proposed Resolution Recommendation: Accepted-Modified

Krzysztof's research report:

What do they want:
- Use other standard MIBs instead of wmanIfBsSnmpAgentConfigTable (#215)
- Move PHY, MAC, device tables to different MIBs (#330L, #331L)
- Move event log to device MIB (#183, #235)

Reason for Recommendation

Krzysztof's research report:
- Move wmanIfBsSnmpAgentConfigTable, wmanIfSsConfigFileEncodingTable to device MIB
- Move PHY to different MIB (#185)

Research report:
- There is no generic standard defining the SNMP traps destination for SNMPv1v2
- There are some generic standard defining the destination for infos, notifications and event too complex to just address this simple purpose we have
- Various application specific standards have their own MIB objects for the same purpose (e.g. DOCSIS) and it is normally in a separate MIB (device MIB)
- There are examples of single destination configuration as well as multiple destination configuration. So we seems to be OK with our single destination.
- Device MIB seems to be very common solution across various application specific standards to contain non interface objects.

Options:
1. No change
2. Remove wmanIfBsSnmpAgentConfigTable
3. Create Device MIB and move wmanIfBsSnmpAgentConfigTable, wmanIfSsConfigFileEncodingTable, event log to device MIB

Resolution of Group: Accepted-Modified

Editor to create Device MIB--WMAN-DEV-MIB in iso(1).std(0).iso8802(8802).wman(16).wmanDev(1) .. following the guidelines in
grouper.ieee.org/groups/802/802_tutorials/chair_guidelines_1-6.pdf ]
and [ ieee802.org/secmail/pdf00157.pdf ]

Editor to move wmanIfBsSnmpAgentConfigTable, wmanIfSsConfigFileEncodingTable, tables under wmanIfBsEventLog and wmanIfSsEventLog
subtree, and other appropriate tables (e.g. device related traps) to WMAN-DEV-MIB

Editor to remove ifIndex, and create appropriate index for tables moved to WMAN-DEV-MIB.

Reason for Group's Decision/Resolution

Group's Notes
Group's Action Items

Editor's Notes Editor's Actions k) done
Editor's Questions and Concerns
Editor's Action Items
There is only one configurable trap destination in "wmanIfBsSnmpAgentConfigTable". Why is this?

Suggested Remedy

Proposed Resolution Recommendation: Accepted  Recommendation by
No action required

Reason for Recommendation
For simplicity reason

Resolution of Group Decision of Group: Accepted
No action required

Reason for Group's Decision/Resolution
For simplicity reason

Group's Notes

Group's Action Items

Editor's Notes Editor's Actions  k) done

Editor's Questions and Concerns

Editor's Action Items
The "wmanIfSsConfigFileEncodingTable" should be renamed and made common to both the BS and SS. (Hopefully into a device MIB...)

which are not yet defined for the BS.

Suggested Remedy
The "wmanIfSsConfigFileEncodingTable" should be renamed and made common to both the BS and SS. (Hopefully into a device MIB...)

Proposed Resolution Recommendation: Rejected

Reason for Recommendation
No Configuration file for BS specified in the 802.16 standard. It is SS only.

Resolution of Group Decision of Group: Rejected

Accept: 0
Opposed: 6

Reason for Group’s Decision/Resolution
No Configuration file for BS specified in the 802.16 standard. It is SS only.

Group’s Notes
Group’s Action Items

Editor’s Notes
Editor’s Actions k) done

Editor’s Questions and Concerns

Editor’s Action Items
The section on error count reporting from the previous revision has been removed. This is a wonderful troubleshooting tool. (It need not be in a mandatory group.)

It would be nice to have per-interface (or even per-SS) counters for unerroreds, correcteds, uncorrectables.

**Suggested Remedy**

- Restore the "wmanIfBsSsFecCounterTable" from the previous revision of this document (begins at page 73).
- Restore the "wmanIfSsFecCounterTable" from the previous revision of this document (begins at page 162).

If the data representation (or table name) is the issue, I would like to ask that the chair forms an ad-hoc group to propose acceptable wording at the next meeting.

It would also be nice to have similar counters for pre/post ARQ correction.

**Proposed Resolution**

- Recommendation: **Rejected**

**Reason for Recommendation**

Refer to comment 203 and 204 of IEEE 80216-05/002r2. The group was not able to reconcile specific counters for the table. The counters were perceived to be implementation specific, and the group was unable to derive a standard set of counters. If the commentor would choose to provide a common set of counters that the group will agree upon, the task group will be happy to revisit reinstating the table.

**Resolution of Group**

- **Decision of Group:** **Rejected**
Reason for Group's Decision/Resolution
Refer to comment 203 and 204 of IEEE 80216-05/002r2
wmanIfBssSsFecCounterTable was removed
The group was not able to reconcile specific counters for the table. The counters were perceived to be implementation specific, and the group was unable to derive a standard set of counters. If the commentor would choose to provide a common set of counters that the group will agree upon, the task group will be happy to revisit reinstating the table.

Group's Notes
Group's Action Items

Editor's Notes Editor's Actions k) done
Editor's Questions and Concerns
Editor's Action Items
There is no visibility to data that could be used to remotely determine something akin to a constellation as a diagnostic tool.

Suggested Remedy
Ask the chair to form an ad-hoc group to quickly determine the appropriate data model.

Proposed Resolution Recommendation: Rejected
Reason for Recommendation
Out of scope

Resolution of Group Decision of Group: Rejected

Reason for Group’s Decision/Resolution
Out of scope

Editor’s Notes Editor’s Actions k) done

Editor’s Questions and Concerns

Editor’s Action Items
The MIB's scope is defined to cover management for MAC and PHY of 802.16. Yet it does not provide for all of the PHY modes. So any MIB we define would not be complete.

Suggested Remedy

Break up the monolithic MIB into multiple MIBs:
- device MIB (common, BS, SS)
- MAC interface MIB (common, BS, SS)
- common PHY interface MIB
- SC-PHY interface MIB
- SCa-PHY interface MIB
- OFDM-PHY interface MIB
- OFDMA-PHY interface MIB

I would prefer the definition of multiple MIBs, where not all of them are defined. At least the provided MIBs could be evaluated on their own merits and determined to be complete.

It is also a lot easier to define and use conformance statements in the modular case. (If a vendor only supports OFDMA, then only include "common PHY" and "OFDMA-PHY" MIBs. No conformance statement would be needed to state that OFDM is not supported.)

It may be worthwhile to consider if the MAC if MIB could be broken up too.

Proposed Resolution
Recommendation: Accepted-Modified

See the resolution of comment 332.

Reason for Recommendation
The group discussed the potential for separating the PHY types into individual MIBs. After lengthy discussions, it was decided that the current format more accurately represented the current layout of the standard, with multiple PHY modes, within a common PHY structure.
Resolution of Group: Accepted-Modified

See the resolution of comment 332

Reason for Group's Decision/Resolution
The group discussed the potential for separating the PHY types into individual MIBs. After lengthy discussions, it was decided that the current format more accurately represented the current layout of the standard, with multiple PHY modes, within a common PHY structure.

Group's Notes

Group's Action Items

Editor's Notes

Editor's Actions

k) done

Editor's Questions and Concerns

Editor's Action Items
There are two approaches to address this issue. I would advocate doing both, given the complexity of our MIB:

1. Break up the MIB into smaller, more reasonable, chunks.
   - device MIB (common, BS, SS)
   - MAC interface MIB (common, BS, SS)
   - common PHY interface MIB
   - SC-PHY interface MIB
   - SCa-PHY interface MIB
   - OFDM-PHY interface MIB
   - OFDMA-PHY interface MIB

2. Take advantage of RFC 2580 definition for the AGENT-CAPABILITIES macro:
   Consider the following quote from section 6 of RFC 2580:
   "The AGENT-CAPABILITIES macro is used to convey a set of capabilities present in an agent...

   "When a MIB module is written, it is divided into units of conformance termed groups. If an agent claims to implement a group, then it must implement each and every object, or each and every notification, within that group. Of course, for whatever reason an agent might..."
Within that group, of course, for whatever reason, an agent might implement only a subset of the groups within a MIB module. In addition, the definition of some MIB objects/notifications leaves some aspects of the definition to the discretion of an implementor.

"Practical experience has demonstrated a need for concisely describing the capabilities of an agent with respect to one or more MIB modules. The AGENT-CAPABILITIES macro allows an agent implementor to describe the precise level of support which an agent claims in regards to a MIB group, and to bind that description to the value of an instance of sysORID [3]. In particular, some objects may have restricted or augmented syntax or access-levels."

RFC 2580 obsoleted RFC 1904, and is also listed as STD 58.

Proposed Resolution Recommendation: Accepted-Modified Recommendation by
See comment 303

Reason for Recommendation

Resolution of Group
Decision of Group: Accepted-Modified
See comment 303

Reason for Group's Decision/Resolution

Group's Notes
Group's Action Items

Editor's Notes Editor's Actions k) done
Editor's Questions and Concerns
Editor's Action Items
Identifying information may be particularly useful in diagnosing issues. This info is already known by the device and can easily be filled out.

NMS scripts are able to parse this string for valuable without compiling new MIBs.

(The sysDescr OID is mandatory for all SNMP implementations.)

Suggested Remedy

This has been lifted from a document in DOCSIS about the content of the mib-2 "sysDescr" MIB variable in DOCSIS MIB usage. It seems reasonable to have a similar statement in ours:

"Hardware version, Boot ROM image version, vendor name, software version, and model number. Verify that each type value combination is separated by a colon and a blank space. Verify that each succeeding pair is separated by a semicolon followed by a blank space.

Example: any text<<HW_REV: XX; VENDOR: YY; BOOTR: ZZ; SW_REV: AA; MODEL: BB>>any text

"Where XX is the hardware revision number for the device under test, HW_REV is the hardware revision for this device, YY is the text string indicating the product manufacturer for this device, ZZ is the boot rom revision number for the device under test, AA is the software version #, and that BB is the model number. In the case that one of these fields is not applicable the value must be reported as "NONE".

Example : ; ; BOOTR: NONE; ;

Proposed Resolution Recommendation: Accepted-Modified

Editor to create 2 tables in WMAN-DEV-MIB to include objects in 11.1.1, 11.1.2, 11.1.4,, and 11.1.6 for SS and BS respectively. Investigate relocating table supporting 11.1.3 and 11.1.5 to saying new location.
Resolution of Group Decision of Group: Accepted-Modified

Editor to create 2 tables in WMAN-DEV-MIB to include objects in 11.1.1, 11.1.2, 11.1.4, and 11.1.6 for SS and BS respectively.
Investigate relocating table supporting 11.1.3 and 11.1.5 to saying new location.

Reason for Group’s Decision/Resolution

Group’s Notes

Group’s Action Items

Editor’s Notes

Editor’s Actions

Editor’s Action Items

c) instructions unclear

Lack of specific direction to relocate table.

Editor’s Questions and Concerns

Editor’s Action Items
Higher layer protocol (DHCP) status information in a link layer MIB is not appropriate.

Suggested Remedy
To be removed.

Proposed Resolution Recommendation: Accepted-Modified Recommendation by
Delegate the editor to change DHCP related text in the draft to refer to "establish IP connectivity" in the network entry procedure.

Reason for Recommendation
This event is associated with "establish IP connectivity" in the network entry procedure. So, it is in the scope.

Resolution of Group Decision of Group: Accepted-Modified
Delegate the editor to change DHCP related text in the draft to refer to "establish IP connectivity" in the network entry procedure.

Reason for Group’s Decision/Resolution

Group’s Notes
Group’s Action Items

Editor’s Notes Editor’s Actions k) done
Superceded by comment #94 This subclause has been removed.

Editor’s Questions and Concerns

Editor’s Action Items
The definition of this trap ("This trap report the SS event") is either incomplete or completely incorrect.

**Suggested Remedy**

This object should either be deleted or be defined correctly. I guess this is meant for Vendor-specific events? If so, there is already a standard mechanism for Vendor-specific traps (by means of Vendor-specific Enterprise MIB definitions, and this should be removed from the 802.16 MIB.

**Proposed Resolution**

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Accepted-Modified</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>In Clause 14</strong></td>
<td></td>
</tr>
<tr>
<td>Change the description of wmanIfSsEventTrap to</td>
<td>&quot;This trap is sent when an event is logged into the table wmanIfSsEventLogTable.&quot;</td>
</tr>
<tr>
<td>Change the description of wmanIfBsEventTrap to</td>
<td>&quot;This trap is sent when an event is logged into the table wmanIfBsEventLogTable.&quot;</td>
</tr>
<tr>
<td>Remove subsections under 13.1.4.2 and 13.2.3.2.</td>
<td></td>
</tr>
<tr>
<td>Add the following text in 13.1.4.2</td>
<td>&quot;This object defines all the traps reported by BS&quot;</td>
</tr>
<tr>
<td>Add the following text in 13.2.3.2</td>
<td>&quot;This object defines all the traps reported by SS&quot;</td>
</tr>
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</table>

**Reason for Recommendation**

**Resolution of Group**

<table>
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<tr>
<td>Change the description of wmanIfBsEventTrap to</td>
<td>&quot;This trap is sent when an event is logged into the table wmanIfBsEventLogTable.&quot;</td>
</tr>
<tr>
<td>Remove subsections under 13.1.4.2 and 13.2.3.2.</td>
<td></td>
</tr>
</tbody>
</table>
Remove subsections under 13.1.4.2 and 13.2.3.2.1.

Add the following text in 13.1.4.2
"This object defines all the traps reported by BS"

Add the following text in 13.2.3.2
"This object defines all the traps reported by SS"

Reason for Group’s Decision/Resolution

Group’s Notes
Group’s Action Items

Editor’s Notes
Editor’s Actions

Editor’s Questions and Concerns

Editor’s Action Items

k) done
Event log uses the wrap-around buffers to store events. Needs clarification what is meant by "buffers" (plural!). the next sentence talks about "the buffer" (singular).

Suggested Remedy
Supposedly all "buffers" should be replaced by "buffer".

Proposed Resolution Recommendation: Accepted-Modified Recommendation by Change "buffers" to "buffer".

Reason for Recommendation
Resolution of Group Decision of Group: Accepted-Modified
Change "buffers" to "buffer".

Reason for Group's Decision/Resolution
Group's Notes
Group's Action Items
Editor's Notes Editor's Actions k) done
Editor's Questions and Concerns
Editor's Action Items
Management information for a higher-layer protocol (Time of Day) in a link-layer MIB is not appropriate.

Suggested Remedy
To be removed.

Proposed Resolution Recommendation: Accepted-Modified Recommendation by
Delegate the editor to change (Time of Day) related text in the draft to refer to "establish Time of Day" in the network entry procedure.

Reason for Recommendation
This event is associated with "establish Time of Day" in the network entry procedure. So, it is in the scope.

Resolution of Group Decision of Group: Accepted-Modified
Delegate the editor to change (Time of Day) related text in the draft to refer to "establish Time of Day" in the network entry procedure.

Reason for Group's Decision/Resolution
This event is associated with "establish Time of Day" in the network entry procedure. So, it is in the scope.

Group's Notes
Group's Action Items

Editor's Notes Editor's Actions k) done

Editor's Questions and Concerns

Editor's Action Items
Management information for a higher-layer protocol (TFTP) in a link-layer MIB is not appropriate.

**Suggested Remedy**
To be removed.

**Proposed Resolution**
Delegate the editor to change TFTP related text in the draft to refer to "Transfer operational parameters" in the network entry procedure.

**Reason for Recommendation**
This event is associated with "Transfer operational parameters" in the network entry procedure. So, it is in the scope.

**Resolution of Group**
Delegate the editor to change TFTP related text in the draft to refer to "Transfer operational parameters" in the network entry procedure.

**Reason for Group's Decision/Resolution**
This event is associated with "Transfer operational parameters" in the network entry procedure. So, it is in the scope.
No bit is defined for wmanIffsEventTrap.

Suggested Remedy
Define a bit for wmanIffsEvent (4, or, if this is intentionally omitted, explain it in the description. Note: See comments on 13.2.3.2.5 (above) and wmanIffsEventTrap (below).

Proposed Resolution
Add wmanIffsEvent control bit in the wmanIffsTrapControlRegister

Resolution of Group
Add wmanIffsEvent control bit in the wmanIffsTrapControlRegister

Reason for Group's Decision/Resolution
Add wmanIffsEvent control bit in the wmanIffsTrapControlRegister
Management information for a higher-layer protocol (DHCP) in a link-layer MIB is not appropriate.

Suggested Remedy
To be removed (and consequently also wmanIfSsDhcpSuccess from wmanIfSsTrapControlRegister

Proposed Resolution Recommendation: Accepted-Modified

Resolution of Group: Accepted-Modified
See comment 322

Reason for Group’s Decision/Resolution

Group’s Notes
Group’s Action Items

Editor’s Notes Editor’s Actions k) done
Editor’s Questions and Concerns
Editor’s Action Items
The definition of this trap ("This trap report the event") is either incomplete or completely incorrect. (same as comment on 13.2.3.2.5)

Suggested Remedy
This object should either be deleted or be defined correctly. I guess this is meant for Vendor-specific events? If so, there is already a standard mechanism for Vendor-specific traps (by means of Vendor-specific Enterprise MIB definitions, and this should be removed from the 802.16 MIB.

- Change the description of wmanIfSsEventTrap to "This trap is sent when an event is logged into the table wmanIfSsEventLogTable."

- Change the description of wmanIfBsEventTrap to "This trap is sent when an event is logged into the table wmanIfBsEventLogTable."

Proposed Resolution

Resolution of Group: Accepted-Modified

Change the description of wmanIfSsEventTrap to "This trap is sent when an event is logged into the table wmanIfSsEventLogTable."

Change the description of wmanIfBsEventTrap to "This trap is sent when an event is logged into the table wmanIfBsEventLogTable."

Editor's Notes
k) done

Editor's Questions and Concerns
I do not understand the purpose of this object; it seems superfluous. It is part of the wmanIfSsRssiStatusChangeTrap for which the reasons are well defined ("An event to report that the downlink RSSI is below wmanIfSsRssiLowThreshold, or above wmanIfSsRssiHighThreshold after restore."). Yet another, free format, object is added to indicate the reason for the event.

**Suggested Remedy**

This object should either be deleted or be defined properly.

**Proposed Resolution**

Change the description of wmanIfSsRssiStatusInfo to:

This object provides additional information about RSSI alarm. It is implementation specific.

**Reason for Recommendation**

The group decides to provide additional clarity in the description; however, the feature function is defined in 9.3.2.3.

**Resolution of Group**

Decision of Group: **Accepted-Modified**

Change the description of wmanIfSsRssiStatusInfo to:

This object provides additional information about RSSI alarm. It is implementation specific.

**Reason for Group’s Decision/Resolution**

The group decides to provide additional clarity in the description; however, the feature function is defined in 9.3.2.3.
byte is not a defined entity for network/air interfaces.

Suggested Remedy
Replace with "octet". Also in the Description (bytes > octets).

Proposed Resolution Recommendation: Rejected

Reason for Recommendation
"Byte" is commonly used in the 802.16-2004 standard

Resolution of Group Decision of Group: Rejected

Accepted: 0
Opposed: 3

Reason for Group’s Decision/Resolution

Group’s Notes

Group’s Action Items

Editor’s Notes

Editor’s Actions k) done

Editor’s Questions and Concerns

Editor’s Action Items
us is not a defined unit of time.

Suggested Remedy
Replace with "microsecond".

Proposed Resolution Recommendation: Rejected Recommendation by

Reason for Recommendation
us is used in 802.16-2004 standard, but not microsecond

Resolution of Group Decision of Group: Rejected
Accepted: 0
Opposed: 2

Reason for Group’s Decision/Resolution
us is used in 802.16-2004 standard, but not microsecond

Group’s Notes

Editor’s Notes Editor’s Actions k) done

Editor’s Questions and Concerns

Editor’s Action Items
us is not a defined unit of time.

Suggested Remedy
Replace with "microsecond".

Proposed Resolution Recommendation: **Rejected**

Reason for Recommendation
See comment 289

Resolution of Group Decision of Group: **Rejected**

Accepted: 0
Opposed: 2

Reason for Group's Decision/Resolution
See comment 289

Group's Notes
Group's Action Items

Editor's Notes Editor's Actions k) done

Editor's Questions and Concerns

Editor's Action Items
us is not a defined unit of time.

Suggested Remedy
Replace with "microsecond".

Proposed Resolution Recommendation: Rejected Recommendation by

Reason for Recommendation
See comment 289

Resolution of Group Decision of Group: Rejected
Accepted: 0
Opposed: 2

Reason for Group's Decision/Resolution
See comment 289

Group’s Notes
Group's Action Items

Editor’s Notes Editor's Actions k) done

Editor's Questions and Concerns

Editor's Action Items
byte is not a defined entity for network/air interfaces.

Suggested Remedy
"Replace with "octet"."

Proposed Resolution Recommendation: Rejected

Reason for Recommendation
"Byte" is commonly used in the 802.16-2004 standard

Resolution of Group
Decision of Group: Rejected

Accepted: 0
Opposed: 2

Reason for Group’s Decision/Resolution
"Byte" is commonly used in the 802.16-2004 standard

Editor's Notes Editor's Actions k) done

Editor's Action Items