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Purpose:

This presentation provides background information about the IANA IfType and OID problems and the current status of the resolution of those problems

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IANA IfType 184 and OID 184

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Status Report

The Problem

- First problem :
 - 802.16f uses {IfType 184} (1.3.6.1.2.1.2.2.1.3.184) as the interface type id in the Interface MIB (wmanIfMIB).
 - This type is registered by IANA as
 - propBWAp2Mp (184), --
PropBroadbandWirelessAccesspt2multipt
 - IEEE 802.16 did not apply for this number
- Second problem:
 - 802.16f uses the Object ID {transmission 184} (1.3.6.1.2.1.10.184) as the OID for the wmanIfMIB
 - This number is within the domain administered by IANA, but is not registered.

Taking Action ...

- 802.16 WG passed motions “to empower the WG Chair to investigate and take whatever reasonable action is required to resolve the issue of IANA ifType number and transmission OID number assignment for IEEE 802.16f and 802.16i [...]” [Refer to WG 802.16 minutes from sessions #43, #44]
- An ad-hoc was formed under the Netman TG to carry out this task
- Participants:
 - Philip Barber
 - Kenneth Stanwood
 - Per Elmdahl
 - Joey Chou
 - Krzysztof Dudzinski
 - Erik Colban

Plan A

- The ad-hoc tried to have the “ownership” of IANA IfType 184 transferred from Ensemble (who had applied for the IfType) to IEEE 802.16
- Ensemble’s assets had been sold, and no company had adequate confidence in ownership of the IfType such that they were willing to sign an assignment document.

Plan B

- Deprecate the use of IfType 184 and use of transmission OID 184 in IEEE 802.16 standards
- Apply for a new IANA IfType (237)
- Ask IANA to add a note in the IANA database that reads “use of this iftype for IEEE 802.16 WMAN interfaces as per IEEE Std 802.16f is deprecated and ifType 237 should be used instead”
- Request IANA to assign transmission OID 184 to IEEE 802.16 and deprecate the use of this OID in the 802.16 standards
- Allocate a new OID somewhere under the IEEE 802.16 arc (iso(1) std(0) iso8802(8802) ieee802dot16(16), in accordance with IEEE Std 802b.

Status

- IANA has assigned ifType 237:
 - ieee80216WMAN (237), -- IEEE 802.16 WMAN interface with a reference to IEEE 802.16
- IANA has added a note to IfType 184
 - “use of this iftype for IEEE 802.16 WMAN interfaces as per IEEE Std 802.16f is deprecated and ifType 237 should be used instead”
- IANA has not yet assigned transmission OID 184 to IEEE 802.16
 - There are rules that state that the OIDs should have an RFC reference (but this rule has been broken by IANA in the past)
 - “We [IANA] are working with the IESG to establish the registrations procedures which would allow your registration to be made.”

Conclusion

- Except for the assignment of transmission OID 184, the matter is now in the hands of 802.16, which should
 - Define new interface MIBs using the new ifType and OID in P802.16i
 - Abandon the Interface MIB specified in IEEE Std 802.16f and add text to this effect in P802.16i
 - Maintain a database (or spreadsheet) with numbers assigned under the IEEE 802.16 arc in accordance with the recommendation in IEEE Std 802b.

References

- IEEE Std 802.16f
 - <http://standards.ieee.org/getieee802/802.16.html>
- 802.16i
 - http://grouper.ieee.org/groups/802/16/netman/docs/80216i-06_001r4
- IANA IfType MIB
 - <http://www.iana.org/assignments/ianaiftype-mib>
- IANA SMI Numbers
 - <http://www.iana.org/assignments/smi-numbers>