Network Working Group
Request for Comments: 2666
Category: Informational

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August 1999

Definitions of Object Identifiers for Identifying Ethernet Chip Sets

Status of this Memo

Copyright Notice

Abstract

This memo defines OBJECT IDENTIFIER values for use with network management protocols in the Internet community. In particular, it contains registered OID values for use with the dot3StatsEtherChipSet object in the EtherLike-MIB [16]. These registrations have been split from [16] into a separate document for maintenance purposes.

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1. Introduction

This memo defines OBJECT IDENTIFIER values for use with network management protocols in the Internet community. In particular, it contains registered OID values for use with the dot3StatsEtherChipSet object in the EtherLike-MIB [16]. These registrations have been split from [16] into a separate document for maintenance purposes.

The dot3StatsEtherChipSet object has recently been deprecated. The purpose of this document is to capture historic assignments made by the various IETF working groups that have been responsible for maintaining the EtherLike-MIB. Implementations which support the dot3StatsEtherChipSet object for backwards compatability may continue to use the OBJECT IDENTIFIER values assigned in this document.

For those chipsets not represented in this document, implementors should assign OBJECT IDENTIFIER values within that part of the registration tree delegated to individual enterprises.

2. The SNMP Management Framework

The SNMP Management Framework presently consists of five major components:

- An overall architecture, described in RFC 2571 [1].
- Mechanisms for describing and naming objects and events for the purpose of management. The first version of this Structure of Management Information (SMI) is called SMIv1 and described in STD 16, RFC 1155 [2], STD 16, RFC 1212 [3] and RFC 1215 [4]. The second version, called SMIv2, is described in STD 58, RFC 2578 [5], STD 58, RFC 2579 [6] and STD 58, RFC 2580 [7].
- Message protocols for transferring management information. The first version of the SNMP message protocol is called SNMPv1 and described in STD 15, RFC 1157 [8]. A second version of the SNMP message protocol, which is not an Internet standards track protocol, is called SNMPv2c and described in RFC 1901 [9] and RFC 1906 [10]. The third version of the message protocol is called SNMPv3 and described in RFC 1906 [10], RFC 2572 [11] and RFC 2574 [12].
- Protocol operations for accessing management information. The first set of protocol operations and associated PDU formats is described in STD 15, RFC 1157 [8]. A second set of protocol operations and associated PDU formats is described in RFC 1905 [13].

- A set of fundamental applications described in RFC 2573 [14] and the view-based access control mechanism described in RFC 2575 [15].

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. Objects in the MIB are defined using the mechanisms defined in the SMI.

This memo specifies a MIB module that is compliant to the SMIv2. A MIB conforming to the SMIv1 can be produced through the appropriate translations. The resulting translated MIB must be semantically equivalent, except where objects or events are omitted because no translation is possible (use of Counter64). Some machine readable information in SMIv2 will be converted into textual descriptions in SMIv1 during the translation process. However, this loss of machine readable information is not considered to change the semantics of the MIB.

3. Definitions

```
ETHER-CHIPSET-MIB DEFINITIONS ::= BEGIN

    IMPORTS
        MODULE-IDENTITY, OBJECT-IDENTITY, mib-2
            FROM SNMPv2-SMI
        dot3
            FROM EtherLike-MIB;

    etherChipsetMIB MODULE-IDENTITY
        LAST-UPDATED "9908240400Z"  -- August 24, 199
        ORGANIZATION "IETF 802.3 Hub MIB Working Group"
        CONTACT-INFO
            "WG E-mail: hubmib@hprnd.rose.hp.com
          To subscribe: hubmib-request@hprnd.rose.hp.com

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                  Tel: +1 916 785 4018
                  Fax: +1 916 785 3583
               E-mail: johnf@rose.hp.com"

        DESCRIPTION "This MIB module contains registered values for
                    use by the dot3StatsEtherChipSet object in
                    the EtherLike-MIB.  This object is used to
                    identify the MAC hardware used to communicate
                    on an interface.

                    Note that the dot3StatsEtherChipSet object
                    has been deprecated.  The primary purpose of
                    this module is to capture historic assignments
                    made by the various IETF working groups that
                    have been responsible for maintaining the
                    EtherLike-MIB.  Implementations which support
                    the dot3StatsEtherChipSet object for backwards
                    compatability may continue to use these values.
                    For those chipsets not represented in this
                    module, registration is required in other
                    documentation, e.g., assignment within that
                    part of the registration tree delegated to
                    individual enterprises (see RFC 1155 and RFC
                    1902)."

        REVISION    "9908240400Z"  -- August 24, 1999
        DESCRIPTION "Initial version of this module created by
                    splitting the chipset registration information
                    out from the EtherLike-MIB.
                    Version published as RFC 2666."
        ::= { mib-2 70 }

    dot3ChipSets          OBJECT IDENTIFIER ::= { dot3 8 }

    dot3ChipSetAMD        OBJECT IDENTIFIER ::= { dot3ChipSets 1 }

    dot3ChipSetAMD7990 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Advanced
                    Micro Devices Am7990 Local Area Network
                    Controller for Ethernet (LANCE)."
        ::= { dot3ChipSetAMD 1 }

    dot3ChipSetAMD79900 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Advanced
                    Micro Devices Am79900 chip."
        ::= { dot3ChipSetAMD 2 }
```

```
dot3ChipSetAMD79C940 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Advanced
                Micro Devices Am79C940 Media Access Controller
                for Ethernet (MACE)."
    ::= { dot3ChipSetAMD 3 }

dot3ChipSetAMD79C90 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Advanced
                Micro Devices Am79C90 CMOS Local Area Network
                Controller for Ethernet (C-LANCE)."
    ::= { dot3ChipSetAMD 4 }

dot3ChipSetAMD79C960 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Advanced
                Micro Devices Am79C960 PCnet-ISA Single Chip
                Ethernet Controller for ISA."
    ::= { dot3ChipSetAMD 5 }

dot3ChipSetAMD79C961 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Advanced
                Micro Devices Am79C961 PCnet-ISA+ Single Chip
                Plug & Play Full-Duplex Ethernet Controller
                for ISA."
    ::= { dot3ChipSetAMD 6 }

dot3ChipSetAMD79C961A OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Advanced
                Micro Devices Am79C961A PCnet-ISA II Single Chip
                Plug & Play Full-Duplex Ethernet Controller
                for ISA."
    ::= { dot3ChipSetAMD 7 }

dot3ChipSetAMD79C965 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Advanced
                Micro Devices Am79C965 PCnet-32 Single Chip
                Ethernet Controller for PCI."
    ::= { dot3ChipSetAMD 8 }

dot3ChipSetAMD79C970 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Advanced
                Micro Devices Am79C970 PCnet PCI Single Chip
```

```
                Ethernet Controller for PCI Local Bus."
    ::= { dot3ChipSetAMD 9 }

dot3ChipSetAMD79C970A OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Advanced
                Micro Devices AM79C970A PCnet PCI II Single Chip
                Full-Duplex Ethernet Controller for PCI Local
                Bus."
    ::= { dot3ChipSetAMD 10 }

dot3ChipSetAMD79C971 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Advanced
                Micro Devices Am79C971 PCnet-FAST Single Chip
                Full-Duplex 10/100 Mbps Ethernet Controller for
                PCI Local Bus."
    ::= { dot3ChipSetAMD 11 }

dot3ChipSetAMD79C972 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Advanced
                Micro Devices Am79C972 PCnet-FAST+ Enhanced
                10/100 Mbps PCI Ethernet Controller with OnNow
                Support."
    ::= { dot3ChipSetAMD 12 }

dot3ChipSetIntel      OBJECT IDENTIFIER ::= { dot3ChipSets 2 }

dot3ChipSetIntel82586 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Intel
                82586 IEEE 802.3 Ethernet LAN Coprocessor."
    ::= { dot3ChipSetIntel 1 }

dot3ChipSetIntel82596 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Intel
                82596 High-Performance 32-Bit Local Area Network
                Coprocessor."
    ::= { dot3ChipSetIntel 2 }

dot3ChipSetIntel82595 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Intel
                82595 High Integration Ethernet Controller."
    ::= { dot3ChipSetIntel 3 }
```

```
dot3ChipSetIntel82557 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Intel
                82557 Fast Ethernet PCI Bus Lan Controller."
    ::= { dot3ChipSetIntel 4 }

dot3ChipSetIntel82558 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Intel
                82558 Fast Ethernet PCI Bus LAN Controller with
                Integrated PHY."
    ::= { dot3ChipSetIntel 5 }

dot3ChipSetSeeq       OBJECT IDENTIFIER ::= { dot3ChipSets 3 }

dot3ChipSetSeeq8003 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the SEEQ
                8003 chip set."
    ::= { dot3ChipSetSeeq 1 }

dot3ChipSetSeeq80C03 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the SEEQ
                80C03 Full-Duplex CMOS Ethernet Data Link
                Controller (MAC)."
    ::= { dot3ChipSetSeeq 2 }

dot3ChipSetSeeq84C30 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the SEEQ
                4-Port 84C30 Full-Duplex CMOS Ethernet 10
                MBit/Sec Data Link Controller (MAC)."
    ::= { dot3ChipSetSeeq 3 }

dot3ChipSetSeeq8431 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the SEEQ
                4-Port 8431 Full-Duplex CMOS Ethernet 10
                MBit/Sec Data Link Controller (MAC)."
    ::= { dot3ChipSetSeeq 4 }

dot3ChipSetSeeq80C300 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the SEEQ
                80C300 Full-Duplex CMOS Ethernet 10/100
                Mbit/Sec Data Link Controller (MAC)."
    ::= { dot3ChipSetSeeq 5 }
```

```
dot3ChipSetSeeq84C300 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the SEEQ
                4-Port 84C300 Fast Ethernet Controller (MAC)."
    ::= { dot3ChipSetSeeq 6 }

dot3ChipSetSeeq84301 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the SEEQ
                4-Port 84301 Fast Ethernet Controller (MAC)."
    ::= { dot3ChipSetSeeq 7 }

dot3ChipSetSeeq84302 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the SEEQ
                4-Port 84302 Fast Ethernet Controller (MAC)."
    ::= { dot3ChipSetSeeq 8 }

dot3ChipSetSeeq8100 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the SEEQ
                8100 Gigabit Ethernet Controller (MAC & PCS)."
    ::= { dot3ChipSetSeeq 9 }

dot3ChipSetNational   OBJECT IDENTIFIER ::= { dot3ChipSets 4 }

dot3ChipSetNational8390 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the National
                Semiconductor DP8390 Network Interface
                Controller."
    ::= { dot3ChipSetNational 1 }

dot3ChipSetNationalSonic OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the National
                Semiconductor DP83932 Systems-Oriented Network
                Interface Controller (SONIC)."
    ::= { dot3ChipSetNational 2 }

dot3ChipSetNational83901 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the National
                Semiconductor DP83901 Serial Network Interface
                Controller (SNIC)."
    ::= { dot3ChipSetNational 3 }

dot3ChipSetNational83902 OBJECT-IDENTITY
```

```
        STATUS      current
        DESCRIPTION "The authoritative identifier for the National
                    Semiconductor DP83902 Serial Network Interface
                    Controller for Twisted Pair (ST-NIC)."
        ::= { dot3ChipSetNational 4 }

    dot3ChipSetNational83905 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the National
                    Semiconductor DP83905 AT Local Area Network
                    Twisted-Pair Interface (AT/LANTIC)."
        ::= { dot3ChipSetNational 5 }

    dot3ChipSetNational83907 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the National
                    Semiconductor DP83907 AT Twisted-Pair Enhanced
                    Coaxial Network Interface Controller
                    (AT/LANTIC II)."
        ::= { dot3ChipSetNational 6 }

    dot3ChipSetNational83916 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the National
                    Semiconductor DP83916 Systems-Oriented Network
                    Interface Controller (SONIC-16)."
        ::= { dot3ChipSetNational 7 }

    dot3ChipSetNational83934 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the National
                    Semiconductor DP83934 Systems-Oriented Network
                    Interface Controller with Twisted Pair Interface
                    (SONIC-T)."
        ::= { dot3ChipSetNational 8 }

    dot3ChipSetNational83936 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the National
                    Semiconductor DP83936AVUL Full-Duplex Systems-
                    Oriented Network Interface Controller with
                    Twisted Pair Interface (SONIC-T)."
        ::= { dot3ChipSetNational 9 }

    dot3ChipSetFujitsu    OBJECT IDENTIFIER ::= { dot3ChipSets 5 }

    dot3ChipSetFujitsu86950 OBJECT-IDENTITY
        STATUS      current
```

```
        DESCRIPTION "The authoritative identifier for the Fujitsu
                    86950 chip."
        ::= { dot3ChipSetFujitsu 1 }

    dot3ChipSetFujitsu86960 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Fujitsu
                    MB86960 Network Interface Controller with
                    Encoder/Decoder (NICE)."
        ::= { dot3ChipSetFujitsu 2 }

    dot3ChipSetFujitsu86964 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Fujitsu
                    MB86964 Ethernet Controller with 10BASE-T
                    Tranceiver."
        ::= { dot3ChipSetFujitsu 3 }

    dot3ChipSetFujitsu86965A OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Fujitsu
                    MB86965A EtherCoupler Single-Chip Ethernet
                    Controller."
        ::= { dot3ChipSetFujitsu 4 }

    dot3ChipSetFujitsu86965B OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Fujitsu
                    MB86965B EtherCoupler Single-Chip Ethernet
                    Controller (supports full-duplex)."
        ::= { dot3ChipSetFujitsu 5 }

    dot3ChipSetDigital    OBJECT IDENTIFIER ::= { dot3ChipSets 6 }

    dot3ChipSetDigitalDC21040 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Digital
                    Semiconductor DC21040 chip."
        ::= { dot3ChipSetDigital 1 }

    dot3ChipSetDigital21041 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Digital
                    Semiconductor 21041 PCI Ethernet LAN
                    Controller."
        ::= { dot3ChipSetDigital 2 }

    dot3ChipSetDigital21140 OBJECT-IDENTITY
```

```
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Digital
                    Semiconductor 21140 PCI Fast Ethernet LAN
                    Controller."
        ::= { dot3ChipSetDigital 3 }

    dot3ChipSetDigital21143 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Digital
                    Semiconductor 21143 PCI/CardBus 10/100-Mb/s
                    Ethernet LAN Controller."
        ::= { dot3ChipSetDigital 4 }

    dot3ChipSetDigital21340 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Digital
                    Semiconductor 21340 10/100-MB/s managed buffered
                    port switch."
        ::= { dot3ChipSetDigital 5 }

    dot3ChipSetDigital21440 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Digital
                    Semiconductor 21440 Multiport 10/100Mbps
                    Ethernet Controller."
        ::= { dot3ChipSetDigital 6 }

    dot3ChipSetDigital21540 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Digital
                    Semiconductor 21540 PCI/CardBus Ethernet LAN
                    Controller with Modem Interface."
        ::= { dot3ChipSetDigital 7 }

    dot3ChipSetTI         OBJECT IDENTIFIER ::= { dot3ChipSets 7 }

    dot3ChipSetTIE100 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Texas
                    Instruments TNETE100 ThunderLAN PCI Fast
                    Ethernet Controller."
        ::= { dot3ChipSetTI 1 }

    dot3ChipSetTIE110 OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the Texas
                    Instruments TNETE110 ThunderLAN PCI 10BASE-T
                    Ethernet Adapter."
```

```
    ::= { dot3ChipSetTI 2 }

dot3ChipSetTIX3100 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Texas
                Instruments TNETX3100 Desktop ThunderSWITCH
                8/2."
    ::= { dot3ChipSetTI 3 }

dot3ChipSetTIX3150 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Texas
                Instruments TNETX3150 ThunderSWITCH 12/3."
    ::= { dot3ChipSetTI 4 }

dot3ChipSetTIX3270 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Texas
                Instruments TNETX3270 ThunderSWITCH 24/3."
    ::= { dot3ChipSetTI 5 }

dot3ChipSetToshiba    OBJECT IDENTIFIER ::= { dot3ChipSets 8 }

dot3ChipSetToshibaTC35815F OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Toshiba
                TC35815F PCI-Based 100/10Mbps Ethernet
                Controller."
    ::= { dot3ChipSetToshiba 1 }

dot3ChipSetLucent     OBJECT IDENTIFIER ::= { dot3ChipSets 9 }

dot3ChipSetLucentATT1MX10 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Lucent
                Technologies ATT1MX10 (Spinnaker) Quad MAC and
                Tranceiver for Ethernet Frame Switching."
       ::= { dot3ChipSetLucent 1 }

dot3ChipSetLucentLUC3M08 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Lucent
                Technologies LUC3M08 Eight Ethernet MACs for
                10/100 Mbits/s Frame Switching."
    ::= { dot3ChipSetLucent 2 }

dot3ChipSetGalileo    OBJECT IDENTIFIER ::= { dot3ChipSets 10 }
```

```
dot3ChipSetGalileoGT48001 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Galileo
                Technology GT-48001A Switched Ethernet
                Controller."
    ::= { dot3ChipSetGalileo 1 }

dot3ChipSetGalileoGT48002 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Galileo
                Technology GT-48002A Switched Fast Ethernet
                Controller."
    ::= { dot3ChipSetGalileo 2 }

dot3ChipSetGalileoGT48004 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Galileo
                Technology GT-48004A Four Port Fast Ethernet
                Switch for Multiport 10/100BASE-X Systems."
    ::= { dot3ChipSetGalileo 3 }

dot3ChipSetGalileoGT48207 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Galileo
                Technology GT-48207 Low-Cost 10 Port Switched
                Ethernet Controller for 10+10/100BASE-X."
    ::= { dot3ChipSetGalileo 4 }

dot3ChipSetGalileoGT48208 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Galileo
                Technology GT-48208 Advanced 10 Port Switched
                Ethernet Controller for 10+10/100BASE-X."
    ::= { dot3ChipSetGalileo 5 }

dot3ChipSetGalileoGT48212 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Galileo
                Technology GT-48212 Advanced 14 Port Switched
                Ethernet Controller for 10+10/100BASE-X."
    ::= { dot3ChipSetGalileo 6 }

dot3ChipSetJato       OBJECT IDENTIFIER ::= { dot3ChipSets 11 }

dot3ChipSetJatoJT1001 OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "The authoritative identifier for the Jato
                Technologies JT1001 GigEMAC Server
```

```
                    10/100/1000Mbps Ethernet Controller with PCI
                    interface."
        ::= { dot3ChipSetJato 1 }

    dot3ChipSetXaQti      OBJECT IDENTIFIER ::= { dot3ChipSets 12 }

    dot3ChipSetXaQtiXQ11800FP OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the XaQTI
                    XQ11800FP XMAC II Gigabit Ethernet Media Access
                    Controller."
        ::= { dot3ChipSetXaQti 1 }

    dot3ChipSetXaQtiXQ18110FP OBJECT-IDENTITY
        STATUS      current
        DESCRIPTION "The authoritative identifier for the XaQTI
                    XQ18110FP GigaPower Protocol Accelerator."
        ::= { dot3ChipSetXaQti 2 }

END
```

4. Intellectual Property

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5. Acknowledgements

This document was produced by the Ethernet Interfaces and Hub MIB Working Group.

6. References

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[15] Wijnen, B., Presuhn, R. and K. McCloghrie, "View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)", RFC 2575, May 1999.

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7. Security Considerations

There are no management objects actually defined in this MIB module. It merely contains a list of OBJECT IDENTIFIER values for use in other MIB modules. As such, it does not, by itself, have any effect on the security of the Internet.

The values in this module are expected to be used only for backwards compatability with the deprecated dot3StatsEtherChipSet object in the EtherLike-MIB [16]. That object may be considered sensitive in some environments, since it would allow an intruder to obtain information about which vendor's equipment is in use on the network.

Therefore, it may be important in some environments, where the dot3StatsEtherChipSet object is implemented for backwards compatability, to control read access to that object and possibly to even encrypt the values of that object when sending it over the network via SNMP. Not all versions of SNMP provide features for such a secure environment.

SNMPv1 by itself is such an insecure environment. Even if the network itself is secure (for example by using IPSec), even then, there is no control as to who on the secure network is allowed to access and GET (read) the objects in this MIB.

It is recommended that the implementors consider the security features as provided by the SNMPv3 framework. Specifically, the use of the User-based Security Model RFC 2574 [12] and the View-based Access Control Model RFC 2575 [15] is recommended.

It is then a customer/user responsibility to ensure that the SNMP entity giving access to a managed object whose values are defined in this MIB, is properly configured to give access to those objects only to those principals (users) that have legitimate rights to access them.

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9. Full Copyright Statement

Acknowledgement

Funding for the RFC Editor function is currently provided by the Internet Society.