                   Management Information Base
                       for Version 2 of the
            Simple Network Management Protocol (SNMPv2)

Status of this Memo

   This document specifies an Internet standards track protocol for the
   Internet community, and requests discussion and suggestions for
   improvements. Please refer to the current edition of the "Internet
   Official Protocol Standards" (STD 1) for the standardization state
   and status of this protocol. Distribution of this memo is unlimited.

Table of Contents

1. Introduction

   A management system contains: several (potentially many) nodes, each
   with a processing entity, termed an agent, which has access to
   management instrumentation; at least one management station; and, a
   management protocol, used to convey management information between
   the agents and management stations. Operations of the protocol are
   carried out under an administrative framework which defines
   authentication, authorization, access control, and privacy policies.

   Management stations execute management applications which monitor and
   control managed elements. Managed elements are devices such as
   hosts, routers, terminal servers, etc., which are monitored and
   controlled via access to their management information.

   Management information is viewed as a collection of managed objects,
   residing in a virtual information store, termed the Management
   Information Base (MIB). Collections of related objects are defined
   in MIB modules. These modules are written using a subset of OSI's
   Abstract Syntax Notation One (ASN.1) [1], termed the Structure of
   Management Information (SMI) [2].

   The management protocol, SNMPv2 [3], provides for the exchange of
   messages which convey management information between the agents and
   the management stations. It is the purpose of this document to
   define managed objects which describe the behavior of a SNMPv2
   entity.

1.1. A Note on Terminology

   For the purpose of exposition, the original Internet-standard Network
   Management Framework, as described in RFCs 1155 (STD 16), 1157 (STD
   15), and 1212 (STD 16), is termed the SNMP version 1 framework
   (SNMPv1). The current framework is termed the SNMP version 2
   framework (SNMPv2).

2. Definitions

SNMPv2-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE,
    TimeTicks, Counter32, snmpModules, mib-2
        FROM SNMPv2-SMI
    DisplayString, TestAndIncr, TimeStamp
        FROM SNMPv2-TC
    MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
        FROM SNMPv2-CONF;

```
snmpMIB MODULE-IDENTITY
    LAST-UPDATED "9511090000Z"
    ORGANIZATION "IETF SNMPv2 Working Group"
    CONTACT-INFO
            "           Marshall T. Rose

             Postal: Dover Beach Consulting, Inc.
                     420 Whisman Court
                     Mountain View, CA   94043-2186
                     US

                Tel: +1 415 968 1052

             E-mail: mrose@dbc.mtview.ca.us"
    DESCRIPTION
            "The MIB module for SNMPv2 entities."
    REVISION        "9304010000Z"
    DESCRIPTION
            "The initial revision of this MIB module was published as
            RFC 1450."
    ::= { snmpModules 1 }


snmpMIBObjects OBJECT IDENTIFIER ::= { snmpMIB 1 }

--  ::= { snmpMIBObjects 1 }        this OID is obsolete
--  ::= { snmpMIBObjects 2 }        this OID is obsolete
--  ::= { snmpMIBObjects 3 }        this OID is obsolete


-- the System group
--
-- a collection of objects common to all managed systems.

system    OBJECT IDENTIFIER ::= { mib-2 1 }

sysDescr OBJECT-TYPE
    SYNTAX       DisplayString (SIZE (0..255))
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
            "A textual description of the entity.  This value should
            include the full name and version identification of the
            system's hardware type, software operating-system, and
            networking software."
    ::= { system 1 }

sysObjectID OBJECT-TYPE
```

```
    SYNTAX       OBJECT IDENTIFIER
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
            "The vendor's authoritative identification of the network
            management subsystem contained in the entity.  This value is
            allocated within the SMI enterprises subtree (1.3.6.1.4.1)
            and provides an easy and unambiguous means for determining
            'what kind of box' is being managed.  For example, if vendor
            'Flintstones, Inc.' was assigned the subtree
            1.3.6.1.4.1.4242, it could assign the identifier
            1.3.6.1.4.1.4242.1.1 to its 'Fred Router'."
    ::= { system 2 }

sysUpTime OBJECT-TYPE
    SYNTAX       TimeTicks
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
            "The time (in hundredths of a second) since the network
            management portion of the system was last re-initialized."
    ::= { system 3 }

sysContact OBJECT-TYPE
    SYNTAX       DisplayString (SIZE (0..255))
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
            "The textual identification of the contact person for this
            managed node, together with information on how to contact
            this person.  If no contact information is known, the value
            is the zero-length string."
    ::= { system 4 }

sysName OBJECT-TYPE
    SYNTAX       DisplayString (SIZE (0..255))
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
            "An administratively-assigned name for this managed node.
            By convention, this is the node's fully-qualified domain
            name.  If the name is unknown, the value is the zero-length
            string."
    ::= { system 5 }

sysLocation OBJECT-TYPE
    SYNTAX       DisplayString (SIZE (0..255))
    MAX-ACCESS   read-write
```

         STATUS   current
         DESCRIPTION
               "The physical location of this node (e.g., 'telephone
               closet, 3rd floor'). If the location is unknown, the value
               is the zero-length string."
         ::= { system 6 }

sysServices OBJECT-TYPE
         SYNTAX   INTEGER (0..127)
         MAX-ACCESS   read-only
         STATUS   current
         DESCRIPTION
               "A value which indicates the set of services that this
               entity may potentially offers. The value is a sum. This
               sum initially takes the value zero, Then, for each layer, L,
               in the range 1 through 7, that this node performs
               transactions for, 2 raised to (L - 1) is added to the sum.
               For example, a node which performs only routing functions
               would have a value of 4 (2^(3-1)). In contrast, a node
               which is a host offering application services would have a
               value of 72 (2^(4-1) + 2^(7-1)). Note that in the context
               of the Internet suite of protocols, values should be
               calculated accordingly:

                       layer   functionality
                        1   physical (e.g., repeaters)
                        2   datalink/subnetwork (e.g., bridges)
                        3   internet (e.g., supports the IP)
                        4   end-to-end (e.g., supports the TCP)
                        7   applications (e.g., supports the SMTP)

               For systems including OSI protocols, layers 5 and 6 may also
               be counted."
          ::= { system 7 }

-- object resource information
--
-- a collection of objects which describe the SNMPv2 entity's
-- (statically and dynamically configurable) support of
-- various MIB modules.

sysORLastChange OBJECT-TYPE
         SYNTAX   TimeStamp
         MAX-ACCESS read-only
         STATUS   current
         DESCRIPTION
               "The value of sysUpTime at the time of the most recent

```
                     change in state or value of any instance of sysORID."
         ::= { system 8 }

 sysORTable OBJECT-TYPE
     SYNTAX      SEQUENCE OF SysOREntry
     MAX-ACCESS  not-accessible
     STATUS      current
     DESCRIPTION
             "The (conceptual) table listing the capabilities of the
             local SNMPv2 entity acting in an agent role with respect to
             various MIB modules.  SNMPv2 entities having dynamically-
             configurable support of MIB modules will have a
             dynamically-varying number of conceptual rows."
     ::= { system 9 }

 sysOREntry OBJECT-TYPE
     SYNTAX      SysOREntry
     MAX-ACCESS  not-accessible
     STATUS      current
     DESCRIPTION
             "An entry (conceptual row) in the sysORTable."
     INDEX       { sysORIndex }
     ::= { sysORTable 1 }

 SysOREntry ::= SEQUENCE {
     sysORIndex      INTEGER,
     sysORID         OBJECT IDENTIFIER,
     sysORDescr      DisplayString,
     sysORUpTime     TimeStamp
 }

 sysORIndex OBJECT-TYPE
     SYNTAX      INTEGER (1..2147483647)
     MAX-ACCESS  not-accessible
     STATUS      current
     DESCRIPTION
             "The auxiliary variable used for identifying instances of
             the columnar objects in the sysORTable."
     ::= { sysOREntry 1 }

 sysORID OBJECT-TYPE
     SYNTAX      OBJECT IDENTIFIER
     MAX-ACCESS  read-only
     STATUS      current
     DESCRIPTION
             "An authoritative identification of a capabilities statement
             with respect to various MIB modules supported by the local
             SNMPv2 entity acting in an agent role."
```

        ::= { sysOREntry 2 }

sysORDescr OBJECT-TYPE
    SYNTAX   DisplayString
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
            "A textual description of the capabilities identified by the
            corresponding instance of sysORID."
    ::= { sysOREntry 3 }

sysORUpTime OBJECT-TYPE
    SYNTAX   TimeStamp
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
            "The value of sysUpTime at the time this conceptual row was
            last instanciated."
    ::= { sysOREntry 4 }

-- the SNMP group
--
-- a collection of objects providing basic instrumentation and
-- control of an SNMP entity.

snmp   OBJECT IDENTIFIER ::= { mib-2 11 }

snmpInPkts OBJECT-TYPE
    SYNTAX   Counter32
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
            "The total number of messages delivered to the SNMP entity
            from the transport service."
    ::= { snmp 1 }

snmpInBadVersions OBJECT-TYPE
    SYNTAX   Counter32
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
            "The total number of SNMP messages which were delivered to
            the SNMP entity and were for an unsupported SNMP version."
    ::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE
    SYNTAX   Counter32

        MAX-ACCESS read-only
        STATUS   current
        DESCRIPTION
                "The total number of SNMP messages delivered to the SNMP
                entity which used a SNMP community name not known to said
                entity."
        ::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   current
        DESCRIPTION
                "The total number of SNMP messages delivered to the SNMP
                entity which represented an SNMP operation which was not
                allowed by the SNMP community named in the message."
        ::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   current
        DESCRIPTION
                "The total number of ASN.1 or BER errors encountered by the
                SNMP entity when decoding received SNMP messages."
        ::= { snmp 6 }

snmpEnableAuthenTraps OBJECT-TYPE
        SYNTAX   INTEGER { enabled(1), disabled(2) }
        MAX-ACCESS   read-write
        STATUS   current
        DESCRIPTION
                "Indicates whether the SNMP entity is permitted to generate
                authenticationFailure traps. The value of this object
                overrides any configuration information; as such, it
                provides a means whereby all authenticationFailure traps may
                be disabled.

                Note that it is strongly recommended that this object be
                stored in non-volatile memory so that it remains constant
                across re-initializations of the network management system."
        ::= { snmp 30 }

snmpSilentDrops OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   current
        DESCRIPTION

```
                "The total number of GetRequest-PDUs, GetNextRequest-PDUs,
                GetBulkRequest-PDUs, SetRequest-PDUs, and InformRequest-PDUs
                delivered to the SNMP entity which were silently dropped
                because the size of a reply containing an alternate
                Response-PDU with an empty variable-bindings field was
                greater than either a local constraint or the maximum
                message size associated with the originator of the request."
        ::= { snmp 31 }

snmpProxyDrops OBJECT-TYPE
        SYNTAX      Counter32
        MAX-ACCESS read-only
        STATUS      current
        DESCRIPTION
                "The total number of GetRequest-PDUs, GetNextRequest-PDUs,
                GetBulkRequest-PDUs, SetRequest-PDUs, and InformRequest-PDUs
                delivered to the SNMP entity which were silently dropped
                because the transmission of the (possibly translated)
                message to a proxy target failed in a manner (other than a
                time-out) such that no Response-PDU could be returned."
        ::= { snmp 32 }


-- information for notifications
--
-- a collection of objects which allow the SNMPv2 entity, when
-- acting in an agent role, to be configured to generate
-- SNMPv2-Trap-PDUs.

snmpTrap        OBJECT IDENTIFIER ::= { snmpMIBObjects 4 }


snmpTrapOID OBJECT-TYPE
        SYNTAX      OBJECT IDENTIFIER
        MAX-ACCESS accessible-for-notify
        STATUS      current
        DESCRIPTION
                "The authoritative identification of the notification
                currently being sent.  This variable occurs as the second
                varbind in every SNMPv2-Trap-PDU and InformRequest-PDU."
        ::= { snmpTrap 1 }

--  ::= { snmpTrap 2 }    this OID is obsolete

snmpTrapEnterprise OBJECT-TYPE
        SYNTAX      OBJECT IDENTIFIER
        MAX-ACCESS accessible-for-notify
        STATUS      current
```

```
     DESCRIPTION
             "The authoritative identification of the enterprise
             associated with the trap currently being sent.  When a
             SNMPv2 proxy agent is mapping an RFC1157 Trap-PDU into a
             SNMPv2-Trap-PDU, this variable occurs as the last varbind."
     ::= { snmpTrap 3 }

-- ::= { snmpTrap 4 }   this OID is obsolete


-- well-known traps

snmpTraps       OBJECT IDENTIFIER ::= { snmpMIBObjects 5 }

coldStart NOTIFICATION-TYPE
    STATUS  current
    DESCRIPTION
            "A coldStart trap signifies that the SNMPv2 entity, acting
            in an agent role, is reinitializing itself and that its
            configuration may have been altered."
    ::= { snmpTraps 1 }

warmStart NOTIFICATION-TYPE
    STATUS  current
    DESCRIPTION
            "A warmStart trap signifies that the SNMPv2 entity, acting
            in an agent role, is reinitializing itself such that its
            configuration is unaltered."
    ::= { snmpTraps 2 }

-- Note the linkDown NOTIFICATION-TYPE ::= { snmpTraps 3 }
-- and the linkUp NOTIFICATION-TYPE ::= { snmpTraps 4 }
-- are defined in RFC 1573

authenticationFailure NOTIFICATION-TYPE
    STATUS  current
    DESCRIPTION
            "An authenticationFailure trap signifies that the SNMPv2
            entity, acting in an agent role, has received a protocol
            message that is not properly authenticated.  While all
            implementations of the SNMPv2 must be capable of generating
            this trap, the snmpEnableAuthenTraps object indicates
            whether this trap will be generated."
    ::= { snmpTraps 5 }

-- Note the egpNeighborLoss NOTIFICATION-TYPE ::= { snmpTraps 6 }
-- is defined in RFC 1213
```

```
-- the set group
--
-- a collection of objects which allow several cooperating
-- SNMPv2 entities, all acting in a manager role, to
-- coordinate their use of the SNMPv2 set operation.

snmpSet         OBJECT IDENTIFIER ::= { snmpMIBObjects 6 }


snmpSetSerialNo OBJECT-TYPE
    SYNTAX      TestAndIncr
    MAX-ACCESS read-write
    STATUS      current
    DESCRIPTION
            "An advisory lock used to allow several cooperating SNMPv2
            entities, all acting in a manager role, to coordinate their
            use of the SNMPv2 set operation.

            This object is used for coarse-grain coordination.  To
            achieve fine-grain coordination, one or more similar objects
            might be defined within each MIB group, as appropriate."
    ::= { snmpSet 1 }


-- conformance information

snmpMIBConformance
            OBJECT IDENTIFIER ::= { snmpMIB 2 }

snmpMIBCompliances
            OBJECT IDENTIFIER ::= { snmpMIBConformance 1 }
snmpMIBGroups  OBJECT IDENTIFIER ::= { snmpMIBConformance 2 }


-- compliance statements

--    ::= { snmpMIBCompliances 1 }      this OID is obsolete

snmpBasicCompliance MODULE-COMPLIANCE
    STATUS  current
    DESCRIPTION
            "The compliance statement for SNMPv2 entities which
            implement the SNMPv2 MIB."
    MODULE  -- this module
        MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup,
                           snmpBasicNotificationsGroup }

        GROUP    snmpCommunityGroup
```

```
        DESCRIPTION
            "This group is mandatory for SNMPv2 entities which
            support community-based authentication."

    ::= { snmpMIBCompliances 2 }


-- units of conformance

--  ::= { snmpMIBGroups 1 }            this OID is obsolete
--  ::= { snmpMIBGroups 2 }            this OID is obsolete
--  ::= { snmpMIBGroups 3 }            this OID is obsolete
--  ::= { snmpMIBGroups 4 }            this OID is obsolete

snmpGroup OBJECT-GROUP
    OBJECTS { snmpInPkts,
              snmpInBadVersions,
              snmpInASNParseErrs,
              snmpSilentDrops,
              snmpProxyDrops,
              snmpEnableAuthenTraps }
    STATUS  current
    DESCRIPTION
            "A collection of objects providing basic instrumentation and
            control of an SNMPv2 entity."
    ::= { snmpMIBGroups 8 }

snmpCommunityGroup OBJECT-GROUP
    OBJECTS { snmpInBadCommunityNames,
              snmpInBadCommunityUses }
    STATUS  current
    DESCRIPTION
            "A collection of objects providing basic instrumentation of
            a SNMPv2 entity which supports community-based
            authentication."
    ::= { snmpMIBGroups 9 }

snmpSetGroup OBJECT-GROUP
    OBJECTS { snmpSetSerialNo }
    STATUS  current
    DESCRIPTION
            "A collection of objects which allow several cooperating
            SNMPv2 entities, all acting in a manager role, to coordinate
            their use of the SNMPv2 set operation."
    ::= { snmpMIBGroups 5 }

systemGroup OBJECT-GROUP
    OBJECTS { sysDescr, sysObjectID, sysUpTime,
```

```
                    sysContact, sysName, sysLocation,
                    sysServices,
                    sysORLastChange, sysORID,
                    sysORUpTime, sysORDescr }
    STATUS  current
    DESCRIPTION
            "The system group defines objects which are common to all
            managed systems."
    ::= { snmpMIBGroups 6 }

snmpBasicNotificationsGroup NOTIFICATION-GROUP
    NOTIFICATIONS { coldStart, authenticationFailure }
    STATUS        current
    DESCRIPTION
            "The two notifications which an SNMPv2 entity is required to
            implement."
    ::= { snmpMIBGroups 7 }


-- definitions in RFC 1213 made obsolete by the inclusion of a
-- subset of the snmp group in this MIB

snmpOutPkts OBJECT-TYPE
    SYNTAX        Counter32
    MAX-ACCESS  read-only
    STATUS        obsolete
    DESCRIPTION
            "The total number of SNMP Messages which were
            passed from the SNMP protocol entity to the
            transport service."
    ::= { snmp 2 }

-- { snmp 7 } is not used

snmpInTooBigs OBJECT-TYPE
    SYNTAX        Counter32
    MAX-ACCESS  read-only
    STATUS        obsolete
    DESCRIPTION
            "The total number of SNMP PDUs which were
            delivered to the SNMP protocol entity and for
            which the value of the error-status field is
            'tooBig'."
    ::= { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE
    SYNTAX        Counter32
    MAX-ACCESS  read-only
```

        STATUS   obsolete
        DESCRIPTION
                "The total number of SNMP PDUs which were
                delivered to the SNMP protocol entity and for
                which the value of the error-status field is
                'noSuchName'."
        ::= { snmp 9 }

snmpInBadValues OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS   read-only
        STATUS   obsolete
        DESCRIPTION
                "The total number of SNMP PDUs which were
                delivered to the SNMP protocol entity and for
                which the value of the error-status field is
                'badValue'."
        ::= { snmp 10 }

snmpInReadOnlys OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS   read-only
        STATUS   obsolete
        DESCRIPTION
                "The total number valid SNMP PDUs which were
                delivered to the SNMP protocol entity and for
                which the value of the error-status field is
                'readOnly'. It should be noted that it is a
                protocol error to generate an SNMP PDU which
                contains the value 'readOnly' in the error-status
                field, as such this object is provided as a means
                of detecting incorrect implementations of the
                SNMP."
        ::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS   read-only
        STATUS   obsolete
        DESCRIPTION
                "The total number of SNMP PDUs which were
                delivered to the SNMP protocol entity and for
                which the value of the error-status field is
                'genErr'."
        ::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE
        SYNTAX   Counter32

        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
                "The total number of MIB objects which have been
                retrieved successfully by the SNMP protocol entity
                as the result of receiving valid SNMP Get-Request
                and Get-Next PDUs."
        ::= { snmp 13 }

    snmpInTotalSetVars OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
                "The total number of MIB objects which have been
                altered successfully by the SNMP protocol entity
                as the result of receiving valid SNMP Set-Request
                PDUs."
        ::= { snmp 14 }

    snmpInGetRequests OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
                "The total number of SNMP Get-Request PDUs which
                have been accepted and processed by the SNMP
                protocol entity."
        ::= { snmp 15 }

    snmpInGetNexts OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
                "The total number of SNMP Get-Next PDUs which have
                been accepted and processed by the SNMP protocol
                entity."
        ::= { snmp 16 }

    snmpInSetRequests OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
                "The total number of SNMP Set-Request PDUs which
                have been accepted and processed by the SNMP
                protocol entity."

```
        ::= { snmp 17 }

snmpInGetResponses OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
            "The total number of SNMP Get-Response PDUs which
            have been accepted and processed by the SNMP
            protocol entity."
    ::= { snmp 18 }

snmpInTraps OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
            "The total number of SNMP Trap PDUs which have
            been accepted and processed by the SNMP protocol
            entity."
    ::= { snmp 19 }

snmpOutTooBigs OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
            "The total number of SNMP PDUs which were
            generated by the SNMP protocol entity and for
            which the value of the error-status field is
            'tooBig.'"
    ::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
            "The total number of SNMP PDUs which were
            generated by the SNMP protocol entity and for
            which the value of the error-status is
            'noSuchName'."
    ::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
```

         DESCRIPTION
                 "The total number of SNMP PDUs which were
                 generated by the SNMP protocol entity and for
                 which the value of the error-status field is
                 'badValue'."
        ::= { snmp 22 }

-- { snmp 23 } is not used

snmpOutGenErrs OBJECT-TYPE
    SYNTAX   Counter32
    MAX-ACCESS read-only
    STATUS   obsolete
    DESCRIPTION
                "The total number of SNMP PDUs which were
                generated by the SNMP protocol entity and for
                which the value of the error-status field is
                'genErr'."
    ::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE
    SYNTAX   Counter32
    MAX-ACCESS read-only
    STATUS   obsolete
    DESCRIPTION
                "The total number of SNMP Get-Request PDUs which
                have been generated by the SNMP protocol entity."
    ::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE
    SYNTAX   Counter32
    MAX-ACCESS read-only
    STATUS   obsolete
    DESCRIPTION
                "The total number of SNMP Get-Next PDUs which have
                been generated by the SNMP protocol entity."
    ::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE
    SYNTAX   Counter32
    MAX-ACCESS read-only
    STATUS   obsolete
    DESCRIPTION
                "The total number of SNMP Set-Request PDUs which
                have been generated by the SNMP protocol entity."
    ::= { snmp 27 }

```
snmpOutGetResponses OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
            "The total number of SNMP Get-Response PDUs which
            have been generated by the SNMP protocol entity."
    ::= { snmp 28 }

snmpOutTraps OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
            "The total number of SNMP Trap PDUs which have
            been generated by the SNMP protocol entity."
    ::= { snmp 29 }

snmpObsoleteGroup OBJECT-GROUP
    OBJECTS { snmpOutPkts, snmpInTooBigs, snmpInNoSuchNames,
              snmpInBadValues, snmpInReadOnlys, snmpInGenErrs,
              snmpInTotalReqVars, snmpInTotalSetVars,
              snmpInGetRequests, snmpInGetNexts, snmpInSetRequests,
              snmpInGetResponses, snmpInTraps, snmpOutTooBigs,
              snmpOutNoSuchNames, snmpOutBadValues, snmpOutGenErrs,
              snmpOutGetRequests, snmpOutGetNexts, snmpOutSetRequests,
              snmpOutGetResponses, snmpOutTraps }
    STATUS  obsolete
    DESCRIPTION
            "A collection of objects from RFC 1213 made obsolete by this
            MIB."
    ::= { snmpMIBGroups 10 }

END
```

3. Security Considerations

    Security issues are not discussed in this memo.

4. Editor's Address

   Keith McCloghrie
   Cisco Systems, Inc.
   170 West Tasman Drive
   San Jose, CA 95134-1706
   US

   Phone: +1 408 526 5260
   EMail: kzm@cisco.com

5. Acknowledgements

   This document is the result of significant work by the four major
   contributors:

   Jeffrey D. Case (SNMP Research, case@snmp.com)
   Keith McCloghrie (Cisco Systems, kzm@cisco.com)
   Marshall T. Rose (Dover Beach Consulting, mrose@dbc.mtview.ca.us)
   Steven Waldbusser (International Network Services, stevew@uni.ins.com)

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   contributions of:

     Alexander I. Alten (Novell)
     Dave Arneson (Cabletron)
     Uri Blumenthal (IBM)
     Doug Book (Chipcom)
     Kim Curran (Bell-Northern Research)
     Jim Galvin (Trusted Information Systems)
     Maria Greene (Ascom Timeplex)
     Iain Hanson (Digital)
     Dave Harrington (Cabletron)
     Nguyen Hien (IBM)
     Jeff Johnson (Cisco Systems)
     Michael Kornegay (Object Quest)
     Deirdre Kostick (AT&T Bell Labs)
     David Levi (SNMP Research)
     Daniel Mahoney (Cabletron)
     Bob Natale (ACE*COMM)
     Brian O'Keefe (Hewlett Packard)
     Andrew Pearson (SNMP Research)
     Dave Perkins (Peer Networks)
     Randy Presuhn (Peer Networks)
     Aleksey Romanov (Quality Quorum)
     Shawn Routhier (Epilogue)
     Jon Saperia (BGS Systems)

          Bob Stewart (Cisco Systems, bstewart@cisco.com), chair
          Kaj Tesink (Bellcore)
          Glenn Waters (Bell-Northern Research)
          Bert Wijnen (IBM)

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