              Republishing the IPV6-specific MIB modules as obsolete
                   draft-ietf-6man-ipv6-mibs-obsolete-01

Abstract

   In 2005, the IPv6 MIB update group published updated versions of the
   IP-MIB, UDP-MIB, TCP-MIB and IP-FORWARD-MIB modules, which use the
   InetAddressType/InetAddress construct to handle IPv4 and IPv6 in the
   same table. This document contains versions of the obsoleted
   IPV6-MIB, IPV6-TC, IPV6-ICMP-MIB, IPV6-TCP-MIB and IPV6-UDP-MIB
   modules, for the purpose of updating MIB module repositories.

Status of This Memo

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1. Motivation

In 2005, the IPv6 MIB update group published updated versions of the
IP-MIB [RFC4293], UDP-MIB [RFC4113], TCP-MIB [RFC4022] and IP-
FORWARD-MIB [RFC4292] modules, which use the InetAddressType/
InetAddress construct to handle IPv4 and IPv6 in the same table.
These documents were marked in the RFC Index as obsoleting the
corresponding IPV6-MIBs, but the extracted content of these MIBs
never changed in MIB repositories, and the original RFCs (as is
normal IETF policy) never changed from being Proposed Standard.

This causes an unclear situation when simply looking at MIB
repositories, so we are simply republishing these MIB modules with
the SMI syntax changed to obsolete.

[2](#). **Historic IPV6-TC**

```
IPV6-TC DEFINITIONS ::= BEGIN

IMPORTS
     Integer32              FROM SNMPv2-SMI
     TEXTUAL-CONVENTION     FROM SNMPv2-TC;

-- definition of textual conventions
Ipv6Address ::= TEXTUAL-CONVENTION
     DISPLAY-HINT "2x:"
     STATUS       obsolete
     DESCRIPTION
       "This data type is used to model IPv6 addresses.
        This is a binary string of 16 octets in network
        byte-order."
     SYNTAX       OCTET STRING (SIZE (16))

Ipv6AddressPrefix ::= TEXTUAL-CONVENTION
     DISPLAY-HINT "2x:"
     STATUS       obsolete
     DESCRIPTION
       "This data type is used to model IPv6 address
        prefixes. This is a binary string of up to 16
        octets in network byte-order."
     SYNTAX       OCTET STRING (SIZE (0..16))

Ipv6AddressIfIdentifier ::= TEXTUAL-CONVENTION
     DISPLAY-HINT "2x:"
     STATUS       obsolete
     DESCRIPTION
       "This data type is used to model IPv6 address
        interface identifiers. This is a binary string
         of up to 8 octets in network byte-order."
     SYNTAX       OCTET STRING (SIZE (0..8))

Ipv6IfIndex ::= TEXTUAL-CONVENTION
     DISPLAY-HINT "d"
     STATUS       obsolete
     DESCRIPTION
       "A unique value, greater than zero for each
        internetwork-layer interface in the managed
        system. It is recommended that values are assigned
        contiguously starting from 1. The value for each
```

          internetwork-layer interface must remain constant
          at least from one re-initialization of the entity's
          network management system to the next
          re-initialization."
        SYNTAX   Integer32 (1..2147483647)

    Ipv6IfIndexOrZero ::= TEXTUAL-CONVENTION
        DISPLAY-HINT "d"
        STATUS   obsolete
        DESCRIPTION
            "This textual convention is an extension of the
            Ipv6IfIndex convention. The latter defines
            a greater than zero value used to identify an IPv6
            interface in the managed system. This extension
            permits the additional value of zero. The value
            zero is object-specific and must therefore be
            defined as part of the description of any object
            which uses this syntax. Examples of the usage of
            zero might include situations where interface was
            unknown, or when none or all interfaces need to be
            referenced."
        SYNTAX   Integer32 (0..2147483647)

    END

3. Historic IPV6-MIB

 IPV6-MIB DEFINITIONS ::= BEGIN

 IMPORTS
     MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE,
     mib-2, Counter32, Unsigned32, Integer32,
     Gauge32   FROM SNMPv2-SMI
     DisplayString, PhysAddress, TruthValue, TimeStamp,
     VariablePointer, RowPointer   FROM SNMPv2-TC
     MODULE-COMPLIANCE, OBJECT-GROUP,
     NOTIFICATION-GROUP   FROM SNMPv2-CONF
     Ipv6IfIndex, Ipv6Address, Ipv6AddressPrefix,
     Ipv6AddressIfIdentifier,
     Ipv6IfIndexOrZero   FROM IPV6-TC;

 ipv6MIB MODULE-IDENTITY
     LAST-UPDATED "201505282112Z"
     ORGANIZATION "IETF IPv6 Working Group"
     CONTACT-INFO
       "   Dimitry Haskin

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            Postal: Bay Networks, Inc.
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                    Billerica, MA 01821
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            E-mail: sonishi@baynetworks.com"
      DESCRIPTION
        "The obsolete MIB module for entities implementing the IPv6
         protocol. Use the IP-MIB or IP-FORWARD-MIB instead."
      REVISION "201505282112Z"
      DESCRIPTION
        "Obsoleting this MIB module; it has been replaced by
         the revised IP-MIB (RFC4293) and IP-FORWARD-MIB
         (RFC4292)."
      REVISION "9802052155Z"
      DESCRIPTION
        "First revision, published as RFC2465"
      ::= { mib-2 55 }

-- the IPv6 general group

ipv6MIBObjects OBJECT IDENTIFIER   ::= { ipv6MIB 1 }

ipv6Forwarding OBJECT-TYPE
    SYNTAX   INTEGER {
                  forwarding(1),   -- acting as a router

                                    -- NOT acting as
                 notForwarding(2) -- a router
                }
     MAX-ACCESS read-write
     STATUS   obsolete
     DESCRIPTION
       "The indication of whether this entity is acting
        as an IPv6 router in respect to the forwarding of
        datagrams received by, but not addressed to, this
        entity. IPv6 routers forward datagrams. IPv6

          hosts do not (except those source-routed via the
          host).

          Note that for some managed nodes, this object may
          take on only a subset of the values possible.
          Accordingly, it is appropriate for an agent to
          return a `wrongValue' response if a management
          station attempts to change this object to an
          inappropriate value.

          This object is obsoleted by IP-MIB::ipv6IpForwarding."
       ::= { ipv6MIBObjects 1 }

 ipv6DefaultHopLimit OBJECT-TYPE
      SYNTAX   INTEGER(0..255)
      MAX-ACCESS read-write
       STATUS   obsolete
      DESCRIPTION
         "The default value inserted into the Hop Limit
         field of the IPv6 header of datagrams originated
         at this entity, whenever a Hop Limit value is not
         supplied by the transport layer protocol.

         This object is obsoleted by IP-MIB::ipv6IpDefaultHopLimit."
      DEFVAL { 64 }
      ::= { ipv6MIBObjects 2 }

ipv6Interfaces OBJECT-TYPE
      SYNTAX   Unsigned32
      MAX-ACCESS read-only
      STATUS   obsolete
      DESCRIPTION
        "The number of IPv6 interfaces (regardless of
         their current state) present on this system.

         This object is obsolete; there is no direct replacement
         but its value can be derived from the number of rows
         in the IP-MIB::ipv6InterfaceTable."
      ::= { ipv6MIBObjects 3 }

ipv6IfTableLastChange OBJECT-TYPE
      SYNTAX   TimeStamp
      MAX-ACCESS read-only
      STATUS   obsolete
      DESCRIPTION
        "The value of sysUpTime at the time of the last
         insertion or removal of an entry in the
         ipv6IfTable. If the number of entries has been

        unchanged since the last re-initialization of
        the local network management subsystem, then this
        object contains a zero value.

        This object is obsoleted by
        IP-MIB::ipv6InterfaceTableLastChange."
      ::= { ipv6MIBObjects 4 }

-- the IPv6 Interfaces table

ipv6IfTable OBJECT-TYPE
      SYNTAX   SEQUENCE OF Ipv6IfEntry
      MAX-ACCESS not-accessible
      STATUS   obsolete
      DESCRIPTION
        "The IPv6 Interfaces table contains information
        on the entity's internetwork-layer interfaces.
        An IPv6 interface constitutes a logical network
        layer attachment to the layer immediately below

        IPv6 including internet layer 'tunnels', such as
        tunnels over IPv4 or IPv6 itself.

        This table is obsoleted by IP-MIB::ipv6InterfaceTable."
      ::= { ipv6MIBObjects 5 }

 ipv6IfEntry OBJECT-TYPE
      SYNTAX   Ipv6IfEntry
      MAX-ACCESS not-accessible
      STATUS   obsolete
      DESCRIPTION
        "An interface entry containing objects
         about a particular IPv6 interface.

         This object is obsoleted by IP-MIB::ipv6InterfaceEntry."
      INDEX   { ipv6IfIndex }
      ::= { ipv6IfTable 1 }

 Ipv6IfEntry ::= SEQUENCE {
         ipv6IfIndex   Ipv6IfIndex,
         ipv6IfDescr   DisplayString,
         ipv6IfLowerLayer   VariablePointer,
         ipv6IfEffectiveMtu   Unsigned32,
         ipv6IfReasmMaxSize   Unsigned32,
         ipv6IfIdentifier   Ipv6AddressIfIdentifier,
         ipv6IfIdentifierLength   INTEGER,
         ipv6IfPhysicalAddress   PhysAddress,
         ipv6IfAdminStatus   INTEGER,

```
        ipv6IfOperStatus          INTEGER,
        ipv6IfLastChange          TimeStamp
    }

 ipv6IfIndex OBJECT-TYPE
    SYNTAX      Ipv6IfIndex
    MAX-ACCESS not-accessible
    STATUS      obsolete
    DESCRIPTION
      "A unique non-zero value identifying
       the particular IPv6 interface.

       This object is obsoleted.  In the IP-MIB,
       interfaces are simply identified by IfIndex."
    ::= { ipv6IfEntry 1 }

 ipv6IfDescr OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS read-write
    STATUS      obsolete
    DESCRIPTION
      "A textual string containing information about the
       interface.  This string may be set by the network
       management system.

       This object is obsoleted by IF-MIB::ifDescr."
    ::= { ipv6IfEntry 2 }

 ipv6IfLowerLayer OBJECT-TYPE
    SYNTAX      VariablePointer
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
      "This object identifies the protocol layer over
       which this network interface operates.  If this
       network interface operates over the data-link
       layer, then the value of this object refers to an
       instance of ifIndex [6]. If this network interface
       operates over an IPv4 interface, the value of this
       object refers to an instance of ipAdEntAddr [3].

       If this network interface operates over another
       IPv6 interface, the value of this object refers to
       an instance of ipv6IfIndex.  If this network
       interface is not currently operating over an active
       protocol layer, then the value of this object
       should be set to the OBJECT ID { 0 0 }.
```

```
      This object is obsolete.  The IF-STACK-TABLE may
      be used to express relationships between interfaces."
   ::= { ipv6IfEntry 3 }

 ipv6IfEffectiveMtu OBJECT-TYPE
    SYNTAX       Unsigned32
    UNITS        "octets"
    MAX-ACCESS   read-only
    STATUS       obsolete
    DESCRIPTION
      "The size of the largest IPv6 packet which can be
      sent/received on the interface, specified in
      octets.

      This object is obsolete.  The value of IF-MIB::ifMtu
      for the corresponding value of ifIndex represents the
      MTU of the interface."
   ::= { ipv6IfEntry 4 }

 ipv6IfReasmMaxSize OBJECT-TYPE
    SYNTAX       Unsigned32 (0..65535)
    UNITS        "octets"
    MAX-ACCESS   read-only
    STATUS       obsolete
    DESCRIPTION
      "The size of the largest IPv6 datagram which this
      entity can re-assemble from incoming IPv6 fragmented
      datagrams received on this interface.

      This object is obsoleted by IP-MIB::ipv6InterfaceReasmMaxSize."
   ::= { ipv6IfEntry 5 }

 ipv6IfIdentifier OBJECT-TYPE
    SYNTAX       Ipv6AddressIfIdentifier
    MAX-ACCESS   read-write
    STATUS       obsolete
    DESCRIPTION
       "The Interface Identifier for this interface that
       is (at least) unique on the link this interface is
       attached to. The Interface Identifier is combined
       with an address prefix to form an interface address.

       By default, the Interface Identifier is autoconfigured
       according to the rules of the link type this
       interface is attached to.

       This object is obsoleted by IP-MIB::ipv6InterfaceIdentifier."
    ::= { ipv6IfEntry 6 }
```

  ipv6IfIdentifierLength OBJECT-TYPE
      SYNTAX   INTEGER (0..64)
      UNITS   "bits"
      MAX-ACCESS   read-write
      STATUS   obsolete
      DESCRIPTION
        "The length of the Interface Identifier in bits.

        This object is obsolete. It can be derived from the length
        of IP-MIB::ipv6InterfaceIdentifier; Interface Identifiers
        that are not an even number of octets are not supported."
      ::= { ipv6IfEntry 7 }

  ipv6IfPhysicalAddress OBJECT-TYPE
      SYNTAX   PhysAddress
      MAX-ACCESS   read-only
      STATUS   obsolete
      DESCRIPTION
        "The interface's physical address. For example, for
        an IPv6 interface attached to an 802.x link, this
        object normally contains a MAC address. Note that
        in some cases this address may differ from the
        address of the interface's protocol sub-layer. The
        interface's media-specific MIB must define the bit
        and byte ordering and the format of the value of
        this object. For interfaces which do not have such
        an address (e.g., a serial line), this object should
        contain an octet string of zero length.

        This object is obsoleted by IF-MIB::ifPhysAddress."
       ::= { ipv6IfEntry 8 }

ipv6IfAdminStatus OBJECT-TYPE
    SYNTAX INTEGER {
             up(1),   -- ready to pass packets
             down(2)
            }
    MAX-ACCESS   read-write
    STATUS   obsolete
    DESCRIPTION
      "The desired state of the interface. When a managed
      system initializes, all IPv6 interfaces start with
      ipv6IfAdminStatus in the down(2) state. As a result
      of either explicit management action or per
      configuration information retained by the managed
      system, ipv6IfAdminStatus is then changed to
      the up(1) state (or remains in the down(2) state).

          This object is obsolete. IPv6 does not have a
          separate admin status; the admin status of the
          interface is represented by IF-MIB::ifAdminStatus."
       ::= { ipv6IfEntry 9 }

   ipv6IfOperStatus OBJECT-TYPE
       SYNTAX INTEGER {
               up(1),   -- ready to pass packets

               down(2),
               noIfIdentifier(3), -- no interface identifier

                                  -- status can not be
                                  -- determined for some
               unknown(4),   -- reason

                                  -- some component is
               notPresent(5)   -- missing
              }
       MAX-ACCESS read-only
       STATUS   obsolete
       DESCRIPTION
         "The current operational state of the interface.
          The noIfIdentifier(3) state indicates that no valid
          Interface Identifier is assigned to the interface.
          This state usually indicates that the link-local
          interface address failed Duplicate Address Detection.
          If ipv6IfAdminStatus is down(2) then ipv6IfOperStatus
          should be down(2). If ipv6IfAdminStatus is changed
          to up(1) then ipv6IfOperStatus should change to up(1)
          if the interface is ready to transmit and receive
          network traffic; it should remain in the down(2) or
          noIfIdentifier(3) state if and only if there is a
          fault that prevents it from going to the up(1) state;
          it should remain in the notPresent(5) state if
          the interface has missing (typically, lower layer)
          components.

          This object is obsolete. IPv6 does not have a
          separate operational status; the operational status of the
          interface is represented by IF-MIB::ifOperStatus."
       ::= { ipv6IfEntry 10 }

   ipv6IfLastChange OBJECT-TYPE
       SYNTAX   TimeStamp
       MAX-ACCESS read-only
       STATUS   obsolete
       DESCRIPTION

```
        "The value of sysUpTime at the time the interface
        entered its current operational state.  If the
        current state was entered prior to the last
        re-initialization of the local network management
        subsystem, then this object contains a zero
        value.

        This object is obsolete.  The last change of
        IF-MIB::ifOperStatus is represented by IF-MIB::ifLastChange."
    ::= { ipv6IfEntry 11 }

--  IPv6 Interface Statistics table

 ipv6IfStatsTable OBJECT-TYPE
     SYNTAX     SEQUENCE OF Ipv6IfStatsEntry
     MAX-ACCESS not-accessible
     STATUS     obsolete
     DESCRIPTION
         "IPv6 interface traffic statistics.

         This table is obsoleted by the IP-MIB::ipIfStatsTable."
     ::= { ipv6MIBObjects 6 }

 ipv6IfStatsEntry OBJECT-TYPE
     SYNTAX     Ipv6IfStatsEntry
     MAX-ACCESS not-accessible
     STATUS     obsolete
     DESCRIPTION
         "An interface statistics entry containing objects
         at a particular IPv6 interface.

         This object is obsoleted by the IP-MIB::ipIfStatsEntry."
     AUGMENTS { ipv6IfEntry }
     ::= { ipv6IfStatsTable 1 }

 Ipv6IfStatsEntry ::= SEQUENCE {
         ipv6IfStatsInReceives
             Counter32,
         ipv6IfStatsInHdrErrors
             Counter32,
         ipv6IfStatsInTooBigErrors
             Counter32,
         ipv6IfStatsInNoRoutes
             Counter32,
         ipv6IfStatsInAddrErrors
             Counter32,
         ipv6IfStatsInUnknownProtos
             Counter32,
```

```
        ipv6IfStatsInTruncatedPkts
            Counter32,
        ipv6IfStatsInDiscards
            Counter32,
        ipv6IfStatsInDelivers
            Counter32,
        ipv6IfStatsOutForwDatagrams
            Counter32,
        ipv6IfStatsOutRequests
            Counter32,
        ipv6IfStatsOutDiscards
            Counter32,
        ipv6IfStatsOutFragOKs
            Counter32,
        ipv6IfStatsOutFragFails
            Counter32,
        ipv6IfStatsOutFragCreates
            Counter32,
        ipv6IfStatsReasmReqds
            Counter32,
        ipv6IfStatsReasmOKs
            Counter32,
        ipv6IfStatsReasmFails
            Counter32,
        ipv6IfStatsInMcastPkts
            Counter32,
        ipv6IfStatsOutMcastPkts
            Counter32
    }

ipv6IfStatsInReceives OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
       "The total number of input datagrams received by
       the interface, including those received in error.

       This object is obsoleted by IP-MIB::ipIfStatsHCInReceives."
    ::= { ipv6IfStatsEntry 1 }

ipv6IfStatsInHdrErrors OBJECT-TYPE
    SYNTAX     Counter32
    MAX-ACCESS read-only
    STATUS     obsolete
    DESCRIPTION
       "The number of input datagrams discarded due to
       errors in their IPv6 headers, including version
```

        number mismatch, other format errors, hop count
        exceeded, errors discovered in processing their
        IPv6 options, etc.

        This object is obsoleted by IP-MIB::ipIfStatsInHdrErrors."
     ::= { ipv6IfStatsEntry 2 }

 ipv6IfStatsInTooBigErrors OBJECT-TYPE
     SYNTAX   Counter32
     MAX-ACCESS read-only
     STATUS   obsolete
     DESCRIPTION
       "The number of input datagrams that could not be
       forwarded because their size exceeded the link MTU
       of outgoing interface.

       This object is obsoleted. It was not replicated in the
       IP-MIB due to feedback that systems did not retain the
       incoming interface of a packet that failed fragmentation."
     ::= { ipv6IfStatsEntry 3 }

 ipv6IfStatsInNoRoutes OBJECT-TYPE
     SYNTAX   Counter32
     MAX-ACCESS read-only
     STATUS   obsolete
     DESCRIPTION
        "The number of input datagrams discarded because no
         route could be found to transmit them to their
         destination.

         This object is obsoleted by IP-MIB::ipIfStatsInNoRoutes."
     ::= { ipv6IfStatsEntry 4 }

 ipv6IfStatsInAddrErrors OBJECT-TYPE
     SYNTAX   Counter32
     MAX-ACCESS read-only
     STATUS   obsolete
     DESCRIPTION
        "The number of input datagrams discarded because
        the IPv6 address in their IPv6 header's destination
        field was not a valid address to be received at
        this entity. This count includes invalid
        addresses (e.g., ::0) and unsupported addresses
        (e.g., addresses with unallocated prefixes). For
        entities which are not IPv6 routers and therefore
        do not forward datagrams, this counter includes
        datagrams discarded because the destination address
        was not a local address.

        This object is obsoleted by IP-MIB::ipIfStatsInAddrErrors."
     ::= { ipv6IfStatsEntry 5 }

 ipv6IfStatsInUnknownProtos OBJECT-TYPE
     SYNTAX   Counter32
     MAX-ACCESS read-only
     STATUS   obsolete
     DESCRIPTION
        "The number of locally-addressed datagrams
        received successfully but discarded because of an
        unknown or unsupported protocol. This counter is
        incremented at the interface to which these
        datagrams were addressed which might not be
        necessarily the input interface for some of
        the datagrams.

        This object is obsoleted by IP-MIB::ipIfStatsInUnknownProtos."
     ::= { ipv6IfStatsEntry 6 }

 ipv6IfStatsInTruncatedPkts OBJECT-TYPE
     SYNTAX   Counter32
     MAX-ACCESS read-only
     STATUS   obsolete
     DESCRIPTION
        "The number of input datagrams discarded because
         datagram frame didn't carry enough data.

         This object is obsoleted by IP-MIB::ipIfStatsInTruncatedPkts."
     ::= { ipv6IfStatsEntry 7 }

 ipv6IfStatsInDiscards OBJECT-TYPE
     SYNTAX   Counter32
     MAX-ACCESS read-only
     STATUS   obsolete
     DESCRIPTION
        "The number of input IPv6 datagrams for which no
        problems were encountered to prevent their
        continued processing, but which were discarded
        (e.g., for lack of buffer space). Note that this
        counter does not include any datagrams discarded
        while awaiting re-assembly.

        This object is obsoleted by IP-MIB::ipIfStatsInDiscards."
     ::= { ipv6IfStatsEntry 8 }

 ipv6IfStatsInDelivers OBJECT-TYPE
     SYNTAX   Counter32
     MAX-ACCESS read-only

```
     STATUS       obsolete
     DESCRIPTION
      "The total number of datagrams successfully
      delivered to IPv6 user-protocols (including ICMP).
      This counter is incremented at the interface to
      which these datagrams were addressed which might
      not be necessarily the input interface for some of
      the datagrams.

      This object is obsoleted by IP-MIB::ipIfStatsHCInDelivers."
     ::= { ipv6IfStatsEntry 9 }

 ipv6IfStatsOutForwDatagrams OBJECT-TYPE
     SYNTAX       Counter32
     MAX-ACCESS  read-only
     STATUS       obsolete
     DESCRIPTION
        "The number of output datagrams which this
        entity received and forwarded to their final
        destinations.  In entities which do not act
        as IPv6 routers, this counter will include
        only those packets which were Source-Routed
        via this entity, and the Source-Route
        processing was successful.  Note that for
        a successfully forwarded datagram the counter
        of the outgoing interface is incremented.

        This object is obsoleted by
        IP-MIB::ipIfStatsHCOutForwDatagrams."
     ::= { ipv6IfStatsEntry 10 }

 ipv6IfStatsOutRequests OBJECT-TYPE
     SYNTAX       Counter32
     MAX-ACCESS  read-only
     STATUS       obsolete
     DESCRIPTION
      "The total number of IPv6 datagrams which local IPv6
      user-protocols (including ICMP) supplied to IPv6 in
      requests for transmission.  Note that this counter
      does not include any datagrams counted in
      ipv6IfStatsOutForwDatagrams.

      This object is obsoleted by IP-MIB::ipIfStatsHCOutRequests."
     ::= { ipv6IfStatsEntry 11 }

 ipv6IfStatsOutDiscards OBJECT-TYPE
     SYNTAX       Counter32
     MAX-ACCESS  read-only
```

```
     STATUS      obsolete
     DESCRIPTION
         "The number of output IPv6 datagrams for which no
          problem was encountered to prevent their
          transmission to their destination, but which were
          discarded (e.g., for lack of buffer space).  Note
          that this counter would include datagrams counted
          in ipv6IfStatsOutForwDatagrams if any such packets
          met this (discretionary) discard criterion.

          This object is obsoleted by IP-MIB::ipIfStatsOutDiscards."
     ::= { ipv6IfStatsEntry 12 }

 ipv6IfStatsOutFragOKs OBJECT-TYPE
     SYNTAX      Counter32
     MAX-ACCESS  read-only
     STATUS      obsolete
     DESCRIPTION
         "The number of IPv6 datagrams that have been
          successfully fragmented at this output interface.

          This object is obsoleted by IP-MIB::ipIfStatsOutFragOKs."
     ::= { ipv6IfStatsEntry 13 }

 ipv6IfStatsOutFragFails OBJECT-TYPE
     SYNTAX      Counter32
     MAX-ACCESS  read-only
     STATUS      obsolete
     DESCRIPTION
         "The number of IPv6 datagrams that have been
          discarded because they needed to be fragmented
          at this output interface but could not be.

          This object is obsoleted by IP-MIB::ipIfStatsOutFragFails."
     ::= { ipv6IfStatsEntry 14 }

 ipv6IfStatsOutFragCreates OBJECT-TYPE
     SYNTAX      Counter32
     MAX-ACCESS  read-only
     STATUS      obsolete
     DESCRIPTION
         "The number of output datagram fragments that have
          been generated as a result of fragmentation at
          this output interface.

          This object is obsoleted by IP-MIB::ipIfStatsOutFragCreates."
     ::= { ipv6IfStatsEntry 15 }
```

  ipv6IfStatsReasmReqds OBJECT-TYPE
      SYNTAX   Counter32
      MAX-ACCESS read-only
      STATUS   obsolete
      DESCRIPTION
         "The number of IPv6 fragments received which needed
          to be reassembled at this interface. Note that this
          counter is incremented at the interface to which
          these fragments were addressed which might not
          be necessarily the input interface for some of
          the fragments.

          This object is obsoleted by IP-MIB::ipIfStatsReasmReqds."
      ::= { ipv6IfStatsEntry 16 }

  ipv6IfStatsReasmOKs OBJECT-TYPE
      SYNTAX   Counter32
      MAX-ACCESS read-only
      STATUS   obsolete
      DESCRIPTION
         "The number of IPv6 datagrams successfully
         reassembled. Note that this counter is incremented
         at the interface to which these datagrams were
         addressed which might not be necessarily the input
         interface for some of the fragments.

         This object is obsoleted by IP-MIB::ipIfStatsReasmOKs."
      ::= { ipv6IfStatsEntry 17 }

  ipv6IfStatsReasmFails OBJECT-TYPE
      SYNTAX   Counter32
      MAX-ACCESS read-only
      STATUS   obsolete
      DESCRIPTION
         "The number of failures detected by the IPv6 re-
          assembly algorithm (for whatever reason: timed
          out, errors, etc.). Note that this is not
          necessarily a count of discarded IPv6 fragments
          since some algorithms (notably the algorithm in
          RFC 815) can lose track of the number of fragments
          by combining them as they are received.
          This counter is incremented at the interface to which
          these fragments were addressed which might not be
          necessarily the input interface for some of the
          fragments.

          This object is obsoleted by IP-MIB::ipIfStatsReasmFails."
      ::= { ipv6IfStatsEntry 18 }

```
ipv6IfStatsInMcastPkts OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
       "The number of multicast packets received
        by the interface

        This object is obsoleted by IP-MIB::ipIfStatsHCInMcastPkts."
    ::= { ipv6IfStatsEntry 19 }

ipv6IfStatsOutMcastPkts OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
       "The number of multicast packets transmitted
        by the interface

        This object is obsoleted by IP-MIB::ipIfStatsHCOutMcastPkts."
    ::= { ipv6IfStatsEntry 20 }

-- Address Prefix table

-- The IPv6 Address Prefix table contains information on
-- the entity's IPv6 Address Prefixes that are associated
-- with IPv6 interfaces.

ipv6AddrPrefixTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF Ipv6AddrPrefixEntry
    MAX-ACCESS  not-accessible
    STATUS      obsolete
    DESCRIPTION
        "The list of IPv6 address prefixes of
         IPv6 interfaces.

         This table is obsoleted by IP-MIB::ipAddressPrefixTable."
    ::= { ipv6MIBObjects 7 }

ipv6AddrPrefixEntry OBJECT-TYPE
    SYNTAX  Ipv6AddrPrefixEntry
    MAX-ACCESS  not-accessible
    STATUS      obsolete
    DESCRIPTION
        "An interface entry containing objects of
         a particular IPv6 address prefix.

         This entry is obsoleted by IP-MIB::ipAddressPrefixEntry."
```

```
     INDEX   { ipv6IfIndex,
               ipv6AddrPrefix,
               ipv6AddrPrefixLength }
     ::= { ipv6AddrPrefixTable 1 }

 Ipv6AddrPrefixEntry ::= SEQUENCE {
      ipv6AddrPrefix                     Ipv6AddressPrefix,
      ipv6AddrPrefixLength           INTEGER,
      ipv6AddrPrefixOnLinkFlag       TruthValue,
      ipv6AddrPrefixAutonomousFlag      TruthValue,
      ipv6AddrPrefixAdvPreferredLifetime Unsigned32,
      ipv6AddrPrefixAdvValidLifetime    Unsigned32
      }

 ipv6AddrPrefix OBJECT-TYPE
     SYNTAX       Ipv6AddressPrefix
     MAX-ACCESS   not-accessible
     STATUS       obsolete
     DESCRIPTION
       "The prefix associated with the this interface.

       This object is obsoleted by IP-MIB::ipAddressPrefixPrefix."
     ::= { ipv6AddrPrefixEntry 1 }

 ipv6AddrPrefixLength OBJECT-TYPE
     SYNTAX       INTEGER (0..128)
     UNITS        "bits"
     MAX-ACCESS   not-accessible
     STATUS       obsolete
     DESCRIPTION
       "The length of the prefix (in bits).

       This object is obsoleted by IP-MIB::ipAddressPrefixLength."
     ::= { ipv6AddrPrefixEntry 2 }

 ipv6AddrPrefixOnLinkFlag OBJECT-TYPE
     SYNTAX       TruthValue
     MAX-ACCESS   read-only
     STATUS       obsolete
     DESCRIPTION
       "This object has the value 'true(1)', if this
       prefix can be used  for on-link determination
       and the value 'false(2)' otherwise.

       This object is obsoleted by IP-MIB::ipAddressPrefixOnLinkFlag."
     ::= { ipv6AddrPrefixEntry 3 }

 ipv6AddrPrefixAutonomousFlag OBJECT-TYPE
```

        SYNTAX   TruthValue
     MAX-ACCESS read-only
     STATUS   obsolete
     DESCRIPTION
        "Autonomous address configuration flag. When
        true(1), indicates that this prefix can be used
        for autonomous address configuration (i.e. can
        be used to form a local interface address).
        If false(2), it is not used to autoconfigure
        a local interface address.

        This object is obsoleted by
        IP-MIB::ipAddressPrefixAutonomousFlag."
     ::= { ipv6AddrPrefixEntry 4 }

 ipv6AddrPrefixAdvPreferredLifetime OBJECT-TYPE
     SYNTAX   Unsigned32
     UNITS   "seconds"
     MAX-ACCESS read-only
     STATUS   obsolete
     DESCRIPTION
        "It is the length of time in seconds that this
        prefix will remain preferred, i.e. time until
        deprecation. A value of 4,294,967,295 represents
        infinity.

        The address generated from a deprecated prefix
        should no longer be used as a source address in
        new communications, but packets received on such
        an interface are processed as expected.

        This object is obsoleted by
        IP-MIB::ipAddressPrefixAdvPreferredLifetime."
     ::= { ipv6AddrPrefixEntry 5 }

 ipv6AddrPrefixAdvValidLifetime OBJECT-TYPE
     SYNTAX   Unsigned32
     UNITS   "seconds"
     MAX-ACCESS read-only
     STATUS   obsolete
     DESCRIPTION
        "It is the length of time in seconds that this
        prefix will remain valid, i.e. time until
        invalidation. A value of 4,294,967,295 represents
        infinity.

        The address generated from an invalidated prefix
        should not appear as the destination or source

```
     address of a packet.

     This object is obsoleted by
     IP-MIB::ipAddressPrefixAdvValidLifetime."
   ::= { ipv6AddrPrefixEntry 6 }

-- the IPv6 Address table

-- The IPv6 address table contains this node's IPv6
-- addressing information.

ipv6AddrTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF Ipv6AddrEntry
   MAX-ACCESS  not-accessible
   STATUS      obsolete
   DESCRIPTION
     "The table of addressing information relevant to
     this node's interface addresses.

     This table is obsoleted by IP-MIB::ipAddressTable."
   ::= { ipv6MIBObjects 8 }

ipv6AddrEntry OBJECT-TYPE
   SYNTAX      Ipv6AddrEntry
   MAX-ACCESS  not-accessible
   STATUS      obsolete
   DESCRIPTION
       "The addressing information for one of this
       node's interface addresses.

       This entry is obsoleted by IP-MIB::ipAddressEntry."
   INDEX   { ipv6IfIndex, ipv6AddrAddress }
   ::= { ipv6AddrTable 1 }

Ipv6AddrEntry ::=
   SEQUENCE {
       ipv6AddrAddress        Ipv6Address,
       ipv6AddrPfxLength      INTEGER,
       ipv6AddrType           INTEGER,
       ipv6AddrAnycastFlag    TruthValue,
       ipv6AddrStatus         INTEGER
       }

ipv6AddrAddress OBJECT-TYPE
   SYNTAX      Ipv6Address
   MAX-ACCESS  not-accessible
   STATUS      obsolete
   DESCRIPTION
```

```
      "The IPv6 address to which this entry's addressing
      information pertains.

      This object is obsoleted by IP-MIB::ipAddressAddr."
   ::= { ipv6AddrEntry 1 }

 ipv6AddrPfxLength OBJECT-TYPE
    SYNTAX       INTEGER(0..128)
    UNITS        "bits"
    MAX-ACCESS   read-only
    STATUS       obsolete
    DESCRIPTION
      "The length of the prefix (in bits) associated with
      the IPv6 address of this entry.

      This object is obsoleted by the IP-MIB::ipAddressPrefixLength
      in the row of the IP-MIB::ipAddressPrefixTable to which the
      IP-MIB::ipAddressPrefix points."
    ::= { ipv6AddrEntry 2 }

 ipv6AddrType OBJECT-TYPE
    SYNTAX       INTEGER {
                         -- address has been formed
                         -- using stateless
         stateless(1),   -- autoconfiguration

                         -- address has been acquired
                         -- by stateful means
                         -- (e.g. DHCPv6, manual
         stateful(2),    -- configuration)

                         -- type can not be determined
         unknown(3)      -- for some reason.
       }
    MAX-ACCESS   read-only
    STATUS       obsolete
    DESCRIPTION
       "The type of address. Note that 'stateless(1)'
       refers to an address that was statelessly
       autoconfigured; 'stateful(2)' refers to a address
       which was acquired by via a stateful protocol
       (e.g. DHCPv6, manual configuration).

       This object is obsoleted by IP-MIB::ipAddressOrigin."
    ::= { ipv6AddrEntry 3 }

 ipv6AddrAnycastFlag OBJECT-TYPE
     SYNTAX       TruthValue
```

        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
          "This object has the value 'true(1)', if this
          address is an anycast address and the value
          'false(2)' otherwise.

          This object is obsoleted by a value of 'anycast(2)'
          in IP-MIB::ipAddressType."
        ::= { ipv6AddrEntry 4 }

    ipv6AddrStatus OBJECT-TYPE
        SYNTAX   INTEGER {
                preferred(1),
                deprecated(2),
                invalid(3),
                inaccessible(4),
                unknown(5)   -- status can not be determined
                             -- for some reason.
              }
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
          "Address status. The preferred(1) state indicates
          that this is a valid address that can appear as
          the destination or source address of a packet.
          The deprecated(2) state indicates that this is
          a valid but deprecated address that should no longer
          be used as a source address in new communications,
          but packets addressed to such an address are
          processed as expected. The invalid(3) state indicates
          that this is not valid address which should not
          appear as the destination or source address of
          a packet. The inaccessible(4) state indicates that
          the address is not accessible because the interface
          to which this address is assigned is not operational.

          This object is obsoleted by IP-MIB::ipAddressStatus."
        ::= { ipv6AddrEntry 5 }

    -- IPv6 Routing objects

    ipv6RouteNumber OBJECT-TYPE
        SYNTAX   Gauge32
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
          "The number of current ipv6RouteTable entries.

        This is primarily to avoid having to read
        the table in order to determine this number.

        This object is obsoleted by IP-FORWARD-MIB::inetCidrRouteNumber."
     ::= { ipv6MIBObjects 9 }

 ipv6DiscardedRoutes OBJECT-TYPE
     SYNTAX   Counter32
     MAX-ACCESS read-only
     STATUS   obsolete
     DESCRIPTION
       "The number of routing entries which were chosen
        to be discarded even though they are valid. One
        possible reason for discarding such an entry could
        be to free-up buffer space for other routing
        entries.

        This object is obsoleted by
        IP-FORWARD-MIB::inetCidrRouteDiscards."
     ::= { ipv6MIBObjects 10 }

 -- IPv6 Routing table

 ipv6RouteTable OBJECT-TYPE
     SYNTAX   SEQUENCE OF Ipv6RouteEntry
     MAX-ACCESS not-accessible
     STATUS   obsolete
     DESCRIPTION
       "IPv6 Routing table. This table contains
        an entry for each valid IPv6 unicast route
        that can be used for packet forwarding
        determination.

        This table is obsoleted by IP-FORWARD-MIB::inetCidrRouteTable."
     ::= { ipv6MIBObjects 11 }

 ipv6RouteEntry OBJECT-TYPE
     SYNTAX   Ipv6RouteEntry
     MAX-ACCESS not-accessible
     STATUS   obsolete
     DESCRIPTION
             "A routing entry.

             This entry is obsoleted by
             IP-FORWARD-MIB::inetCidrRouteEntry."
     INDEX   { ipv6RouteDest,
                ipv6RoutePfxLength,
                ipv6RouteIndex }

```
       ::= { ipv6RouteTable 1 }

   Ipv6RouteEntry ::= SEQUENCE {
           ipv6RouteDest          Ipv6Address,
           ipv6RoutePfxLength     INTEGER,
           ipv6RouteIndex         Unsigned32,
           ipv6RouteIfIndex       Ipv6IfIndexOrZero,
           ipv6RouteNextHop       Ipv6Address,
           ipv6RouteType          INTEGER,
           ipv6RouteProtocol      INTEGER,
           ipv6RoutePolicy        Integer32,
           ipv6RouteAge           Unsigned32,
           ipv6RouteNextHopRDI    Unsigned32,
           ipv6RouteMetric        Unsigned32,
           ipv6RouteWeight        Unsigned32,
           ipv6RouteInfo          RowPointer,
           ipv6RouteValid         TruthValue
       }

   ipv6RouteDest OBJECT-TYPE
       SYNTAX     Ipv6Address
       MAX-ACCESS not-accessible
       STATUS     obsolete
       DESCRIPTION
         "The destination IPv6 address of this route.
         This object may not take a Multicast address
         value.

         This object is obsoleted by IP-FORWARD-MIB::inetCidrRouteDest."
       ::= { ipv6RouteEntry 1 }

   ipv6RoutePfxLength OBJECT-TYPE
       SYNTAX     INTEGER(0..128)
       UNITS      "bits"
       MAX-ACCESS not-accessible
       STATUS     obsolete
       DESCRIPTION
         "Indicates the prefix length of the destination
         address.

         This object is obsoleted by IP-FORWARD-MIB::inetCidrRoutePfxLen."
       ::= { ipv6RouteEntry 2 }

   ipv6RouteIndex OBJECT-TYPE
       SYNTAX     Unsigned32
       MAX-ACCESS not-accessible
       STATUS     obsolete
       DESCRIPTION
```

```
    "The value which uniquely identifies the route
    among the routes to the same network layer
    destination.  The way this value is chosen is
    implementation specific but it must be unique for
    ipv6RouteDest/ipv6RoutePfxLength pair and remain
    constant for the life of the route.

    This object is obsoleted by IP-FORWARD-MIB::inetCidrRoutePolicy."
::= { ipv6RouteEntry 3 }


ipv6RouteIfIndex OBJECT-TYPE
    SYNTAX     Ipv6IfIndexOrZero
    MAX-ACCESS read-only
    STATUS     obsolete
    DESCRIPTION
      "The index value which uniquely identifies the local
      interface through which the next hop of this
      route should be reached.  The interface identified
      by a particular value of this index is the same
      interface as identified by the same value of
      ipv6IfIndex.  For routes of the discard type this
      value can be zero.

      This object is obsoleted by
      IP-FORWARD-MIB::inetCidrRouteIfIndex."
    ::= { ipv6RouteEntry 4 }


ipv6RouteNextHop OBJECT-TYPE
    SYNTAX     Ipv6Address
    MAX-ACCESS read-only
    STATUS     obsolete
    DESCRIPTION
      "On remote routes, the address of the next
      system en route;  otherwise, ::0
      ('00000000000000000000000000000000'H in ASN.1
      string representation).

      This object is obsoleted by
      IP-FORWARD-MIB::inetCidrRouteNextHop."
    ::= { ipv6RouteEntry 5 }


ipv6RouteType OBJECT-TYPE
    SYNTAX     INTEGER {
       other(1),     -- none of the following

                     -- an route indicating that
                     -- packets to destinations
                     -- matching this route are
```

```
        discard(2),    -- to be discarded

                       -- route to directly
        local(3),      -- connected (sub-)network

                       -- route to a remote

        remote(4)      -- destination

     }
     MAX-ACCESS read-only
     STATUS      obsolete
     DESCRIPTION
       "The type of route. Note that 'local(3)' refers
       to a route for which the next hop is the final
       destination; 'remote(4)' refers to a route for
       which  the  next  hop is not the final
       destination; 'discard(2)' refers to a route
       indicating that packets to destinations matching
       this route are to be discarded (sometimes called
       black-hole route).

       This object is obsoleted by IP-FORWARD-MIB::inetCidrRouteType."
     ::= { ipv6RouteEntry 6 }

 ipv6RouteProtocol OBJECT-TYPE
     SYNTAX      INTEGER {
       other(1),    -- none of the following

                    -- non-protocol information,
                    -- e.g., manually configured
       local(2),    -- entries

       netmgmt(3), -- static route

                    -- obtained via Neighbor
                    -- Discovery protocol,
       ndisc(4),    -- e.g., result of Redirect

                    -- the following are all
                    -- dynamic routing protocols
       rip(5),      -- RIPng
       ospf(6),     -- Open Shortest Path First
       bgp(7),      -- Border Gateway Protocol
       idrp(8),     -- InterDomain Routing Protocol
       igrp(9)      -- InterGateway Routing Protocol
     }
     MAX-ACCESS read-only
```

       STATUS   obsolete
       DESCRIPTION
         "The routing mechanism via which this route was
          learned.

          This object is obsoleted by IP-FORWARD-MIB::inetCidrRouteProto."
       ::= { ipv6RouteEntry 7 }

  ipv6RoutePolicy OBJECT-TYPE
       SYNTAX   Integer32
       MAX-ACCESS read-only
       STATUS   obsolete
       DESCRIPTION
        "The general set of conditions that would cause the
         selection of one multipath route (set of next hops
         for a given destination) is referred to as 'policy'.
         Unless the mechanism indicated by ipv6RouteProtocol
         specified otherwise, the policy specifier is the
         8-bit Traffic Class field of the IPv6 packet header
         that is zero extended at the left to a 32-bit value.

         Protocols defining 'policy' otherwise must either
         define a set of values which are valid for
         this object or must implement an integer-
         instanced policy table for which this object's
         value acts as an index.

         This object is obsoleted by IP-FORWARD-MIB::inetCidrRoutePolicy."
       ::= { ipv6RouteEntry 8 }

  ipv6RouteAge OBJECT-TYPE
       SYNTAX   Unsigned32
       UNITS   "seconds"
       MAX-ACCESS read-only
       STATUS   obsolete
       DESCRIPTION
          "The number of seconds since this route was last
           updated or otherwise determined to be correct.
           Note that no semantics of `too old' can be implied
           except through knowledge of the routing protocol
           by which the route was learned.

           This object is obsoleted by IP-FORWARD-MIB::inetCidrRouteAge."
       ::= { ipv6RouteEntry 9 }

  ipv6RouteNextHopRDI OBJECT-TYPE
       SYNTAX   Unsigned32
       MAX-ACCESS read-only

```
     STATUS      obsolete
     DESCRIPTION
        "The Routing Domain ID of the Next Hop.
        The  semantics of this object are determined by
        the routing-protocol specified in  the  route's
        ipv6RouteProtocol value.   When  this object is
        unknown or not relevant its value should be set
        to zero.

        This object is obsolete, and has no replacement.
        The Routing Domain ID concept did not catch on."
     ::= { ipv6RouteEntry 10 }

 ipv6RouteMetric OBJECT-TYPE
     SYNTAX      Unsigned32
     MAX-ACCESS read-only
     STATUS      obsolete
     DESCRIPTION
        "The routing metric for this route. The
        semantics of this metric are determined by the
        routing protocol specified in the route's
        ipv6RouteProtocol value.  When this is unknown
        or not relevant to the protocol indicated by
        ipv6RouteProtocol, the object value should be
        set to its maximum value (4,294,967,295).

        This object is obsoleted by
        IP-FORWARD-MIB::inetCidrRouteMetric1."
     ::= { ipv6RouteEntry 11 }

 ipv6RouteWeight OBJECT-TYPE
     SYNTAX      Unsigned32
     MAX-ACCESS read-only
     STATUS      obsolete
     DESCRIPTION
        "The system internal weight value for this route.
        The semantics of this value are determined by
        the implementation specific rules. Generally,
        within routes with the same ipv6RoutePolicy value,
        the lower the weight value the more preferred is
        the route.

        This object is obsoleted, and has not been replaced."
     ::= { ipv6RouteEntry 12 }

 ipv6RouteInfo OBJECT-TYPE
     SYNTAX      RowPointer
     MAX-ACCESS read-only
```

```
      STATUS      obsolete
      DESCRIPTION
         "A reference to MIB definitions specific to the
         particular routing protocol which is responsible
         for this route, as determined by the  value
         specified  in the route's ipv6RouteProto value.
         If this information is not present,  its  value
         should be set to the OBJECT ID { 0 0 },
         which is a syntactically valid object  identifier,
         and any implementation conforming to ASN.1
         and the Basic Encoding Rules must  be  able  to
         generate and recognize this value.

         This object is obsoleted, and has not been replaced."
      ::= { ipv6RouteEntry 13 }

 ipv6RouteValid OBJECT-TYPE
      SYNTAX      TruthValue
      MAX-ACCESS read-write
      STATUS      obsolete
      DESCRIPTION
         "Setting this object to the value 'false(2)' has
         the effect of invalidating the corresponding entry
         in the ipv6RouteTable object.  That is, it
         effectively disassociates the destination
         identified with said entry from the route
         identified with said entry.  It is an
         implementation-specific matter as to whether the
         agent removes an invalidated entry from the table.
         Accordingly, management stations must be prepared
         to receive tabular information from agents that
         corresponds to entries not currently in use.
         Proper interpretation of such entries requires
         examination of the relevant ipv6RouteValid
         object.

         This object is obsoleted by
         IP-FORWARD-MIB::inetCidrRouteStatus."
      DEFVAL  { true }
      ::= { ipv6RouteEntry 14 }

 -- IPv6 Address Translation table

 ipv6NetToMediaTable OBJECT-TYPE
      SYNTAX      SEQUENCE OF Ipv6NetToMediaEntry
      MAX-ACCESS  not-accessible
      STATUS      obsolete
      DESCRIPTION
```

          "The IPv6 Address Translation table used for
          mapping from IPv6 addresses to physical addresses.

          The IPv6 address translation table contain the
          Ipv6Address to `physical' address equivalencies.
          Some interfaces do not use translation tables
          for determining address equivalencies; if all
          interfaces are of this type, then the Address
          Translation table is empty, i.e., has zero
          entries.

          This table is obsoleted by IP-MIB::ipNetToPhysicalTable."
       ::= { ipv6MIBObjects 12 }

    ipv6NetToMediaEntry OBJECT-TYPE
       SYNTAX   Ipv6NetToMediaEntry
       MAX-ACCESS not-accessible
       STATUS   obsolete
       DESCRIPTION
         "Each entry contains one IPv6 address to `physical'
         address equivalence.

         This entry is obsoleted by IP-MIB::ipNetToPhysicalEntry."
       INDEX   { ipv6IfIndex,
                 ipv6NetToMediaNetAddress }
       ::= { ipv6NetToMediaTable 1 }

    Ipv6NetToMediaEntry ::= SEQUENCE {
           ipv6NetToMediaNetAddress
               Ipv6Address,
           ipv6NetToMediaPhysAddress
               PhysAddress,
           ipv6NetToMediaType
               INTEGER,
           ipv6IfNetToMediaState
               INTEGER,
           ipv6IfNetToMediaLastUpdated
               TimeStamp,
           ipv6NetToMediaValid
               TruthValue
       }

    ipv6NetToMediaNetAddress OBJECT-TYPE
       SYNTAX   Ipv6Address
       MAX-ACCESS not-accessible
       STATUS   obsolete
       DESCRIPTION
          "The IPv6 Address corresponding to

```
         the media-dependent `physical' address.

         This object is obsoleted by IP-MIB::ipNetToPhysicalNetAddress."
      ::= { ipv6NetToMediaEntry 1 }

 ipv6NetToMediaPhysAddress OBJECT-TYPE
      SYNTAX     PhysAddress
      MAX-ACCESS read-only
      STATUS     obsolete
      DESCRIPTION
        "The media-dependent `physical' address.

         This object is obsoleted by IP-MIB::ipNetToPhysicalPhysAddress."
      ::= { ipv6NetToMediaEntry 2 }

 ipv6NetToMediaType OBJECT-TYPE
      SYNTAX      INTEGER {
                   other(1),    -- none of the following
                   dynamic(2),  -- dynamically resolved
                   static(3),   -- statically configured
                   local(4)     -- local interface
                  }
      MAX-ACCESS read-only
      STATUS     obsolete
      DESCRIPTION
              "The type of the mapping. The 'dynamic(2)' type
              indicates that the IPv6 address to physical
              addresses mapping has been dynamically
              resolved using the IPv6 Neighbor Discovery
              protocol. The static(3)' types indicates that
              the mapping has been statically configured.
              The local(4) indicates that the mapping is
              provided for an entity's own interface address.

              This object is obsoleted by IP-MIB::ipNetToPhysicalType."
      ::= { ipv6NetToMediaEntry 3 }

ipv6IfNetToMediaState OBJECT-TYPE
     SYNTAX       INTEGER {
              reachable(1), -- confirmed reachability

              stale(2),     -- unconfirmed reachability

              delay(3),     -- waiting for reachability
                            -- confirmation before entering
                            -- the probe state

              probe(4),     -- actively probing
```

```
             invalid(5),   -- an invalidated mapping

             unknown(6)    -- state can not be determined
                           -- for some reason.
          }
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The Neighbor Unreachability Detection [8] state
        for the interface when the address mapping in
        this entry is used.

        This object is obsoleted by IP-MIB::ipNetToPhysicalState."
    ::= { ipv6NetToMediaEntry 4 }

ipv6IfNetToMediaLastUpdated OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The value of sysUpTime at the time this entry
        was last updated.  If this entry was updated prior
        to the last re-initialization of the local network
        management subsystem, then this object contains
        a zero value.

        This object is obsoleted by IP-MIB::ipNetToPhysicalLastUpdated."
    ::= { ipv6NetToMediaEntry 5 }

 ipv6NetToMediaValid OBJECT-TYPE
     SYNTAX      TruthValue
     MAX-ACCESS read-write
     STATUS      obsolete
     DESCRIPTION
      "Setting this object to the value 'false(2)' has
      the effect of invalidating the corresponding entry
      in the ipv6NetToMediaTable.  That is, it effectively
      disassociates the interface identified with said
      entry from the mapping identified with said entry.
      It is an implementation-specific matter as to
      whether the agent removes an invalidated entry
      from the table.  Accordingly, management stations
      must be prepared to receive tabular information
      from agents that corresponds to entries not
      currently in use.  Proper interpretation of such
      entries requires examination of the relevant
      ipv6NetToMediaValid object.
```

         This object is obsoleted by IP-MIB::ipNetToPhysicalRowStatus."
      DEFVAL { true }
      ::= { ipv6NetToMediaEntry 6 }

-- definition of IPv6-related notifications.
-- Note that we need ipv6NotificationPrefix with the 0
-- sub-identifier to make this MIB to translate to
-- an SNMPv1 format in a reversible way. For example
-- it is needed for proxies that convert SNMPv1 traps
-- to SNMPv2 notifications without MIB knowledge.

ipv6Notifications   OBJECT IDENTIFIER
      ::= { ipv6MIB 2 }
ipv6NotificationPrefix OBJECT IDENTIFIER
      ::= { ipv6Notifications 0 }

ipv6IfStateChange NOTIFICATION-TYPE
      OBJECTS {
               ipv6IfDescr,
               ipv6IfOperStatus -- the new state of the If.
              }
      STATUS   obsolete
      DESCRIPTION
         "An ipv6IfStateChange notification signifies
         that there has been a change in the state of
         an ipv6 interface. This notification should
         be generated when the interface's operational
         status transitions to or from the up(1) state.

         This object is obsoleted by IF-MIB::linkUp
         and IF-MIB::linkDown notifications."
      ::= { ipv6NotificationPrefix 1 }

-- conformance information

ipv6Conformance OBJECT IDENTIFIER ::= { ipv6MIB 3 }

ipv6Compliances OBJECT IDENTIFIER ::= { ipv6Conformance 1 }
ipv6Groups   OBJECT IDENTIFIER ::= { ipv6Conformance 2 }

-- compliance statements

ipv6Compliance MODULE-COMPLIANCE
    STATUS obsolete
    DESCRIPTION
      "The compliance statement for SNMPv2 entities which
      implement ipv6 MIB.

```
      This compliance statement is obsoleted by
      IP-MIB::ipMIBCompliance2."
   MODULE  -- this module
      MANDATORY-GROUPS { ipv6GeneralGroup,
                         ipv6NotificationGroup }
        OBJECT     ipv6Forwarding
          MIN-ACCESS  read-only
          DESCRIPTION
             "An agent is not required to provide write
              access to this object"
        OBJECT     ipv6DefaultHopLimit
          MIN-ACCESS  read-only
          DESCRIPTION
             "An agent is not required to provide write
              access to this object"
        OBJECT     ipv6IfDescr
          MIN-ACCESS  read-only
          DESCRIPTION
             "An agent is not required to provide write
              access to this object"
        OBJECT     ipv6IfIdentifier
          MIN-ACCESS  read-only
          DESCRIPTION
             "An agent is not required to provide write
              access to this object"
        OBJECT     ipv6IfIdentifierLength
          MIN-ACCESS  read-only
          DESCRIPTION
             "An agent is not required to provide write
              access to this object"

        OBJECT     ipv6IfAdminStatus
          MIN-ACCESS  read-only
          DESCRIPTION
             "An agent is not required to provide write
              access to this object"
        OBJECT     ipv6RouteValid
          MIN-ACCESS  read-only
          DESCRIPTION
             "An agent is not required to provide write
              access to this object"
        OBJECT     ipv6NetToMediaValid
          MIN-ACCESS  read-only
          DESCRIPTION
             "An agent is not required to provide write
              access to this object"
    ::= { ipv6Compliances 1 }
```

```
ipv6GeneralGroup OBJECT-GROUP
    OBJECTS { ipv6Forwarding,
              ipv6DefaultHopLimit,
              ipv6Interfaces,
              ipv6IfTableLastChange,
              ipv6IfDescr,
              ipv6IfLowerLayer,
              ipv6IfEffectiveMtu,
              ipv6IfReasmMaxSize,
              ipv6IfIdentifier,
              ipv6IfIdentifierLength,
              ipv6IfPhysicalAddress,
              ipv6IfAdminStatus,
              ipv6IfOperStatus,
              ipv6IfLastChange,
              ipv6IfStatsInReceives,
              ipv6IfStatsInHdrErrors,
              ipv6IfStatsInTooBigErrors,
              ipv6IfStatsInNoRoutes,
              ipv6IfStatsInAddrErrors,
              ipv6IfStatsInUnknownProtos,
              ipv6IfStatsInTruncatedPkts,
              ipv6IfStatsInDiscards,
              ipv6IfStatsInDelivers,
              ipv6IfStatsOutForwDatagrams,
              ipv6IfStatsOutRequests,
              ipv6IfStatsOutDiscards,
              ipv6IfStatsOutFragOKs,
              ipv6IfStatsOutFragFails,
              ipv6IfStatsOutFragCreates,
              ipv6IfStatsReasmReqds,
              ipv6IfStatsReasmOKs,
              ipv6IfStatsReasmFails,
              ipv6IfStatsInMcastPkts,
              ipv6IfStatsOutMcastPkts,
              ipv6AddrPrefixOnLinkFlag,
              ipv6AddrPrefixAutonomousFlag,
              ipv6AddrPrefixAdvPreferredLifetime,
              ipv6AddrPrefixAdvValidLifetime,
              ipv6AddrPfxLength,
              ipv6AddrType,
              ipv6AddrAnycastFlag,
              ipv6AddrStatus,
              ipv6RouteNumber,
              ipv6DiscardedRoutes,
              ipv6RouteIfIndex,
              ipv6RouteNextHop,
              ipv6RouteType,
```

```
                ipv6RouteProtocol,
                ipv6RoutePolicy,
                ipv6RouteAge,
                ipv6RouteNextHopRDI,
                ipv6RouteMetric,
                ipv6RouteWeight,
                ipv6RouteInfo,
                ipv6RouteValid,
                ipv6NetToMediaPhysAddress,
                ipv6NetToMediaType,
                ipv6IfNetToMediaState,
                ipv6IfNetToMediaLastUpdated,
                ipv6NetToMediaValid }
     STATUS    obsolete
     DESCRIPTION
           "The IPv6 group of objects providing for basic
            management of IPv6 entities.

            This group is obsoleted by various groups in
            IP-MIB."
     ::= { ipv6Groups 1 }

ipv6NotificationGroup NOTIFICATION-GROUP
     NOTIFICATIONS { ipv6IfStateChange }
     STATUS    obsolete
     DESCRIPTION
           "The notification that an IPv6 entity is required
            to implement.

            This group is obsoleted by
            IF-MIB::linkUpDownNotificationsGroup."
     ::= { ipv6Groups 2 }

  END
```

[4]. Historic IPV6-ICMP-MIB

```
     IPV6-ICMP-MIB DEFINITIONS ::= BEGIN

     IMPORTS
         MODULE-IDENTITY, OBJECT-TYPE,
         Counter32, mib-2                   FROM SNMPv2-SMI
         MODULE-COMPLIANCE, OBJECT-GROUP  FROM SNMPv2-CONF
         ipv6IfEntry                        FROM IPV6-MIB;

     ipv6IcmpMIB MODULE-IDENTITY
         LAST-UPDATED "201505282112Z"
         ORGANIZATION "IETF IPv6 Working Group"
```

```
          CONTACT-INFO
            "           Dimitry Haskin

                  Postal: Bay Networks, Inc.
                          660 Techology Park Drive.
                          Billerica, MA  01821
                          US

                     Tel: +1-978-916-8124
                  E-mail: dhaskin@baynetworks.com

                          Steve Onishi

                  Postal: Bay Networks, Inc.
                          3 Federal Street
                          Billerica, MA 01821
                          US

                     Tel: +1-978-916-3816
                  E-mail: sonishi@baynetworks.com"
          DESCRIPTION
            "The obsolete MIB module for entities implementing
             the ICMPv6.  Use the IP-MIB instead."
          REVISION "201505282112Z"
          DESCRIPTION
            "Obsoleting this MIB module; it has been replaced by
             the revised IP-MIB (RFC4293)."
          REVISION "9801082155Z"
          DESCRIPTION
            "First revision, published as RFC2466"
          ::= { mib-2 56 }

   -- the ICMPv6 group

   ipv6IcmpMIBObjects OBJECT IDENTIFIER ::= { ipv6IcmpMIB  1 }

   -- Per-interface ICMPv6 statistics table

   ipv6IfIcmpTable OBJECT-TYPE
       SYNTAX      SEQUENCE OF Ipv6IfIcmpEntry
       MAX-ACCESS not-accessible
       STATUS      obsolete
       DESCRIPTION
        "IPv6 ICMP statistics. This table contains statistics
         of ICMPv6 messages that are received and sourced by
         the entity.

         This table is obsolete, because systems were found
```

```
          not to maintain these statistics per-interface."
         ::= { ipv6IcmpMIBObjects 1 }

     ipv6IfIcmpEntry OBJECT-TYPE
         SYNTAX     Ipv6IfIcmpEntry
         MAX-ACCESS not-accessible
         STATUS     obsolete
         DESCRIPTION
          "An ICMPv6 statistics entry containing
          objects at a particular IPv6 interface.

          Note that a receiving interface is
          the interface to which a given ICMPv6 message
          is addressed which may not be necessarily
          the input interface for the message.

          Similarly,  the sending interface is
          the interface that sources a given
          ICMP message which is usually but not
          necessarily the output interface for the message.

          This table is obsolete, because systems were found
          not to maintain these statistics per-interface."
         AUGMENTS { ipv6IfEntry }
         ::= { ipv6IfIcmpTable 1 }

     Ipv6IfIcmpEntry ::= SEQUENCE {
             ipv6IfIcmpInMsgs
                     Counter32      ,
             ipv6IfIcmpInErrors
                     Counter32      ,
             ipv6IfIcmpInDestUnreachs
                     Counter32      ,
             ipv6IfIcmpInAdminProhibs
                     Counter32      ,
             ipv6IfIcmpInTimeExcds
                     Counter32      ,
             ipv6IfIcmpInParmProblems
                     Counter32      ,
             ipv6IfIcmpInPktTooBigs
                     Counter32      ,
             ipv6IfIcmpInEchos
                     Counter32      ,
             ipv6IfIcmpInEchoReplies
                     Counter32      ,
             ipv6IfIcmpInRouterSolicits
                     Counter32      ,
             ipv6IfIcmpInRouterAdvertisements
```

```
                    Counter32         ,
            ipv6IfIcmpInNeighborSolicits
                    Counter32         ,
            ipv6IfIcmpInNeighborAdvertisements
                    Counter32         ,
            ipv6IfIcmpInRedirects
                    Counter32         ,
            ipv6IfIcmpInGroupMembQueries
                    Counter32         ,
            ipv6IfIcmpInGroupMembResponses
                    Counter32         ,
            ipv6IfIcmpInGroupMembReductions
                    Counter32         ,
            ipv6IfIcmpOutMsgs
                    Counter32         ,
            ipv6IfIcmpOutErrors
                    Counter32         ,
            ipv6IfIcmpOutDestUnreachs
                    Counter32         ,
            ipv6IfIcmpOutAdminProhibs
                    Counter32         ,
            ipv6IfIcmpOutTimeExcds
                    Counter32         ,
            ipv6IfIcmpOutParmProblems
                    Counter32         ,
            ipv6IfIcmpOutPktTooBigs
                    Counter32         ,
            ipv6IfIcmpOutEchos
                    Counter32         ,
            ipv6IfIcmpOutEchoReplies
                    Counter32         ,
            ipv6IfIcmpOutRouterSolicits
                    Counter32         ,
            ipv6IfIcmpOutRouterAdvertisements
                    Counter32         ,
            ipv6IfIcmpOutNeighborSolicits
                    Counter32         ,
            ipv6IfIcmpOutNeighborAdvertisements
                    Counter32         ,
            ipv6IfIcmpOutRedirects
                    Counter32         ,
            ipv6IfIcmpOutGroupMembQueries
                    Counter32         ,
            ipv6IfIcmpOutGroupMembResponses
                    Counter32         ,
            ipv6IfIcmpOutGroupMembReductions
                    Counter32
        }
```

     ipv6IfIcmpInMsgs OBJECT-TYPE
         SYNTAX   Counter32
         MAX-ACCESS read-only
         STATUS   obsolete
         DESCRIPTION
          "The total number of ICMP messages received
           by the interface which includes all those
           counted by ipv6IfIcmpInErrors. Note that this
           interface is the interface to which the
           ICMP messages were addressed which may not be
           necessarily the input interface for the messages.

           This object has been obsoleted by IP-MIB::icmpStatsInMsgs."
         ::= { ipv6IfIcmpEntry 1 }

     ipv6IfIcmpInErrors OBJECT-TYPE
         SYNTAX   Counter32
         MAX-ACCESS read-only
         STATUS   obsolete
         DESCRIPTION
          "The number of ICMP messages which the interface
           received but determined as having ICMP-specific
           errors (bad ICMP checksums, bad length, etc.).

           This object has been obsoleted by IP-MIB::icmpStatsInErrors."
         ::= { ipv6IfIcmpEntry 2 }

     ipv6IfIcmpInDestUnreachs OBJECT-TYPE
         SYNTAX   Counter32
         MAX-ACCESS read-only
         STATUS   obsolete
         DESCRIPTION
          "The number of ICMP Destination Unreachable
           messages received by the interface.

           This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
           in the row corresponding to this message type."
         ::= { ipv6IfIcmpEntry 3 }

     ipv6IfIcmpInAdminProhibs OBJECT-TYPE
         SYNTAX   Counter32
         MAX-ACCESS read-only
         STATUS   obsolete
         DESCRIPTION
          "The number of ICMP destination
           unreachable/communication administratively
           prohibited messages received by the interface.

```
       This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
        in the row corresponding to this message type."
       ::= { ipv6IfIcmpEntry 4 }

   ipv6IfIcmpInTimeExcds OBJECT-TYPE
       SYNTAX     Counter32
       MAX-ACCESS read-only
       STATUS     obsolete
       DESCRIPTION
        "The number of ICMP Time Exceeded messages
         received by the interface.

         This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
         in the row corresponding to this message type."
       ::= { ipv6IfIcmpEntry 5 }

   ipv6IfIcmpInParmProblems OBJECT-TYPE
       SYNTAX     Counter32
       MAX-ACCESS read-only
       STATUS     obsolete
       DESCRIPTION
        "The number of ICMP Parameter Problem messages
         received by the interface.

         This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
         in the row corresponding to this message type."
       ::= { ipv6IfIcmpEntry 6 }

   ipv6IfIcmpInPktTooBigs OBJECT-TYPE
       SYNTAX     Counter32
       MAX-ACCESS read-only
       STATUS     obsolete
       DESCRIPTION
        "The number of ICMP Packet Too Big messages
        received by the interface.

         This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
         in the row corresponding to this message type."
       ::= { ipv6IfIcmpEntry 7 }

   ipv6IfIcmpInEchos OBJECT-TYPE
       SYNTAX     Counter32
       MAX-ACCESS read-only
       STATUS     obsolete
       DESCRIPTION
        "The number of ICMP Echo (request) messages
          received by the interface.
```

           This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
            in the row corresponding to this message type."
          ::= { ipv6IfIcmpEntry 8 }

     ipv6IfIcmpInEchoReplies OBJECT-TYPE
         SYNTAX   Counter32
         MAX-ACCESS read-only
         STATUS   obsolete
         DESCRIPTION
          "The number of ICMP Echo Reply messages received
           by the interface.

           This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
            in the row corresponding to this message type."
          ::= { ipv6IfIcmpEntry 9 }

     ipv6IfIcmpInRouterSolicits OBJECT-TYPE
         SYNTAX   Counter32
         MAX-ACCESS read-only
         STATUS   obsolete
         DESCRIPTION
          "The number of ICMP Router Solicit messages
            received by the interface.

           This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
            in the row corresponding to this message type."
          ::= { ipv6IfIcmpEntry 10 }

     ipv6IfIcmpInRouterAdvertisements OBJECT-TYPE
         SYNTAX   Counter32
         MAX-ACCESS read-only
         STATUS   obsolete
         DESCRIPTION
          "The number of ICMP Router Advertisement messages
           received by the interface.

           This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
            in the row corresponding to this message type."
          ::= { ipv6IfIcmpEntry 11 }

     ipv6IfIcmpInNeighborSolicits OBJECT-TYPE
         SYNTAX   Counter32
         MAX-ACCESS read-only
         STATUS   obsolete
         DESCRIPTION
          "The number of ICMP Neighbor Solicit messages
            received by the interface.

          This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
          in the row corresponding to this message type."
        ::= { ipv6IfIcmpEntry 12 }

    ipv6IfIcmpInNeighborAdvertisements OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
         "The number of ICMP Neighbor Advertisement
          messages received by the interface.

          This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
          in the row corresponding to this message type."
        ::= { ipv6IfIcmpEntry 13 }

    ipv6IfIcmpInRedirects OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
         "The number of Redirect messages received
          by the interface.

          This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
          in the row corresponding to this message type."
        ::= { ipv6IfIcmpEntry 14 }

    ipv6IfIcmpInGroupMembQueries OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
         "The number of ICMPv6 Group Membership Query
          messages received by the interface.

          This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
          in the row corresponding to this message type."
        ::= { ipv6IfIcmpEntry 15}

    ipv6IfIcmpInGroupMembResponses OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
         "The number of ICMPv6 Group Membership Response messages
          received by the interface.

          This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
          in the row corresponding to this message type."
         ::= { ipv6IfIcmpEntry 16}

     ipv6IfIcmpInGroupMembReductions OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
         "The number of ICMPv6 Group Membership Reduction messages
          received by the interface.

          This object has been obsoleted by IP-MIB::icmpMsgStatsInPkts
          in the row corresponding to this message type."
         ::= { ipv6IfIcmpEntry 17}

     ipv6IfIcmpOutMsgs OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
         "The total number of ICMP messages which this
          interface attempted to send. Note that this counter
          includes all those counted by icmpOutErrors.

          This object has been obsoleted by IP-MIB::icmpStatsOutMsgs."
         ::= { ipv6IfIcmpEntry 18 }

     ipv6IfIcmpOutErrors OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only
        STATUS   obsolete
        DESCRIPTION
         "The number of ICMP messages which this interface did
          not send due to problems discovered within ICMP
          such as a lack of buffers. This value should not
          include errors discovered outside the ICMP layer
          such as the inability of IPv6 to route the resultant
          datagram. In some implementations there may be no
          types of error which contribute to this counter's
          value.

          This object has been obsoleted by IP-MIB::icmpStatsOutErrors."
         ::= { ipv6IfIcmpEntry 19 }

     ipv6IfIcmpOutDestUnreachs OBJECT-TYPE
        SYNTAX   Counter32
        MAX-ACCESS read-only

```
        STATUS      obsolete
        DESCRIPTION
         "The number of ICMP Destination Unreachable

         messages sent by the interface.

         This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
         in the row corresponding to this message type."
        ::= { ipv6IfIcmpEntry 20 }

    ipv6IfIcmpOutAdminProhibs OBJECT-TYPE
        SYNTAX      Counter32
        MAX-ACCESS read-only
        STATUS      obsolete
        DESCRIPTION
          "Number of ICMP dest unreachable/communication
          administratively prohibited messages sent.

          This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
          in the row corresponding to this message type."
        ::= { ipv6IfIcmpEntry 21 }

    ipv6IfIcmpOutTimeExcds OBJECT-TYPE
        SYNTAX      Counter32
        MAX-ACCESS read-only
        STATUS      obsolete
        DESCRIPTION
         "The number of ICMP Time Exceeded messages sent
          by the interface.

          This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
          in the row corresponding to this message type."
        ::= { ipv6IfIcmpEntry 22 }

    ipv6IfIcmpOutParmProblems OBJECT-TYPE
        SYNTAX      Counter32
        MAX-ACCESS read-only
        STATUS      obsolete
        DESCRIPTION
         "The number of ICMP Parameter Problem messages
          sent by the interface.

          This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
          in the row corresponding to this message type."
        ::= { ipv6IfIcmpEntry 23 }

    ipv6IfIcmpOutPktTooBigs OBJECT-TYPE
        SYNTAX      Counter32
```

          MAX-ACCESS read-only
          STATUS   obsolete
          DESCRIPTION
           "The number of ICMP Packet Too Big messages sent
            by the interface.

            This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
            in the row corresponding to this message type."
          ::= { ipv6IfIcmpEntry 24 }

      ipv6IfIcmpOutEchos OBJECT-TYPE
          SYNTAX   Counter32
          MAX-ACCESS read-only
          STATUS   obsolete
          DESCRIPTION
           "The number of ICMP Echo (request) messages sent
            by the interface.

            This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
            in the row corresponding to this message type."
          ::= { ipv6IfIcmpEntry 25 }

      ipv6IfIcmpOutEchoReplies OBJECT-TYPE
          SYNTAX   Counter32
          MAX-ACCESS read-only
          STATUS   obsolete
          DESCRIPTION
           "The number of ICMP Echo Reply messages sent
            by the interface.

            This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
            in the row corresponding to this message type."
          ::= { ipv6IfIcmpEntry 26 }

      ipv6IfIcmpOutRouterSolicits OBJECT-TYPE
          SYNTAX   Counter32
          MAX-ACCESS read-only
          STATUS   obsolete
          DESCRIPTION
           "The number of ICMP Router Solicitation messages
             sent by the interface.

             This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
             in the row corresponding to this message type."
          ::= { ipv6IfIcmpEntry 27 }

      ipv6IfIcmpOutRouterAdvertisements OBJECT-TYPE
          SYNTAX   Counter32

```
        MAX-ACCESS read-only
        STATUS     obsolete
        DESCRIPTION
         "The number of ICMP Router Advertisement messages
          sent by the interface.

          This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
          in the row corresponding to this message type."
        ::= { ipv6IfIcmpEntry 28 }

    ipv6IfIcmpOutNeighborSolicits OBJECT-TYPE
        SYNTAX     Counter32
        MAX-ACCESS read-only
        STATUS     obsolete
        DESCRIPTION
         "The number of ICMP Neighbor Solicitation
           messages sent by the interface.

           This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
           in the row corresponding to this message type."
        ::= { ipv6IfIcmpEntry 29 }

    ipv6IfIcmpOutNeighborAdvertisements OBJECT-TYPE
        SYNTAX     Counter32
        MAX-ACCESS read-only
        STATUS     obsolete
        DESCRIPTION
         "The number of ICMP Neighbor Advertisement
          messages sent by the interface.

          This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
          in the row corresponding to this message type."
        ::= { ipv6IfIcmpEntry 30 }

    ipv6IfIcmpOutRedirects OBJECT-TYPE
        SYNTAX     Counter32
        MAX-ACCESS read-only
        STATUS     obsolete
        DESCRIPTION
         "The number of Redirect messages sent. For
          a host, this object will always be zero,
          since hosts do not send redirects.

          This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
          in the row corresponding to this message type."
        ::= { ipv6IfIcmpEntry 31 }

    ipv6IfIcmpOutGroupMembQueries OBJECT-TYPE
```

```
         SYNTAX      Counter32
         MAX-ACCESS read-only
         STATUS      obsolete
         DESCRIPTION
          "The number of ICMPv6 Group Membership Query
          messages sent.

          This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
          in the row corresponding to this message type."
         ::= { ipv6IfIcmpEntry 32}

     ipv6IfIcmpOutGroupMembResponses OBJECT-TYPE
         SYNTAX      Counter32
         MAX-ACCESS read-only
         STATUS      obsolete
         DESCRIPTION
          "The number of ICMPv6 Group Membership Response
          messages sent.

          This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
          in the row corresponding to this message type."
         ::= { ipv6IfIcmpEntry 33}

     ipv6IfIcmpOutGroupMembReductions OBJECT-TYPE
         SYNTAX      Counter32
         MAX-ACCESS read-only
         STATUS      obsolete
         DESCRIPTION
          "The number of ICMPv6 Group Membership Reduction
          messages sent.

          This object has been obsoleted by IP-MIB::icmpMsgStatsOutPkts
          in the row corresponding to this message type."
         ::= { ipv6IfIcmpEntry 34}

    -- conformance information

    ipv6IcmpConformance OBJECT IDENTIFIER ::= { ipv6IcmpMIB 2 }

    ipv6IcmpCompliances
            OBJECT IDENTIFIER ::= { ipv6IcmpConformance 1 }
    ipv6IcmpGroups
            OBJECT IDENTIFIER ::= { ipv6IcmpConformance 2 }

    -- compliance statements

    ipv6IcmpCompliance MODULE-COMPLIANCE
        STATUS   obsolete
```

```
        DESCRIPTION
          "The compliance statement for SNMPv2 entities which
           implement ICMPv6.

           This compliance statement has been obsoleted by
           IP-MIB::ipMIBCompliance2."
        MODULE  -- this module
            MANDATORY-GROUPS { ipv6IcmpGroup }
        ::= { ipv6IcmpCompliances 1 }

   ipv6IcmpGroup OBJECT-GROUP
        OBJECTS   {
                    ipv6IfIcmpInMsgs,
                    ipv6IfIcmpInErrors,
                    ipv6IfIcmpInDestUnreachs,
                    ipv6IfIcmpInAdminProhibs,
                    ipv6IfIcmpInTimeExcds,
                    ipv6IfIcmpInParmProblems,
                    ipv6IfIcmpInPktTooBigs,
                    ipv6IfIcmpInEchos,
                    ipv6IfIcmpInEchoReplies,
                    ipv6IfIcmpInRouterSolicits,
                    ipv6IfIcmpInRouterAdvertisements,
                    ipv6IfIcmpInNeighborSolicits,
                    ipv6IfIcmpInNeighborAdvertisements,
                    ipv6IfIcmpInRedirects,
                    ipv6IfIcmpInGroupMembQueries,
                    ipv6IfIcmpInGroupMembResponses,
                    ipv6IfIcmpInGroupMembReductions,
                    ipv6IfIcmpOutMsgs,
                    ipv6IfIcmpOutErrors,
                    ipv6IfIcmpOutDestUnreachs,
                    ipv6IfIcmpOutAdminProhibs,
                    ipv6IfIcmpOutTimeExcds,
                    ipv6IfIcmpOutParmProblems,
                    ipv6IfIcmpOutPktTooBigs,
                    ipv6IfIcmpOutEchos,
                    ipv6IfIcmpOutEchoReplies,
                    ipv6IfIcmpOutRouterSolicits,
                    ipv6IfIcmpOutRouterAdvertisements,
                    ipv6IfIcmpOutNeighborSolicits,
                    ipv6IfIcmpOutNeighborAdvertisements,
                    ipv6IfIcmpOutRedirects,
                    ipv6IfIcmpOutGroupMembQueries,
                    ipv6IfIcmpOutGroupMembResponses,
                    ipv6IfIcmpOutGroupMembReductions
                  }
        STATUS    obsolete
```

          DESCRIPTION
              "The ICMPv6 group of objects providing information
               specific to ICMPv6.

               This group has been obsoleted by IP-MIB::icmpStatsGroup."
          ::= { ipv6IcmpGroups 1 }

      END

[5](#). **Historic IPV6-UDP-MIB**

 IPV6-UDP-MIB DEFINITIONS ::= BEGIN

 IMPORTS
     MODULE-COMPLIANCE, OBJECT-GROUP   FROM SNMPv2-CONF
     MODULE-IDENTITY, OBJECT-TYPE,
     mib-2, experimental   FROM SNMPv2-SMI
     Ipv6Address, Ipv6IfIndexOrZero   FROM IPV6-TC;

 ipv6UdpMIB MODULE-IDENTITY
     LAST-UPDATED "201505282112Z"
     ORGANIZATION "IETF IPv6 MIB Working Group"
     CONTACT-INFO
         "   Mike Daniele

                  Postal: Compaq Computer Corporation
                          110 Spitbrook Rd
                          Nashua, NH 03062.
                          US

                  Phone: +1 603 884 1423
                  Email: daniele@zk3.dec.com"
     DESCRIPTION
         "The obsolete MIB module for entities implementing UDP
         over IPv6. Use the UDP-MIB instead."
     REVISION "201505282112Z"
     DESCRIPTION
         "Obsoleting this MIB module; it has been replaced by
         the revised UDP-MIB (RFC4113)."
     REVISION "9801290000Z"
     DESCRIPTION
         "First revision, published as RFC2454"
     ::= { experimental 87 }

 -- objects specific to UDP for IPv6

 udp   OBJECT IDENTIFIER ::= { mib-2 7 }

```
-- the UDP over IPv6 Listener table

-- This table contains information about this entity's
-- UDP/IPv6 endpoints.  Only endpoints utilizing IPv6 addresses
-- are contained in this table.  This entity's UDP/IPv4 endpoints
-- are contained in udpTable.

ipv6UdpTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF Ipv6UdpEntry
    MAX-ACCESS  not-accessible
    STATUS      obsolete
    DESCRIPTION
        "A table containing UDP listener information for
         UDP/IPv6 endpoints.

         This table is obsoleted by UDP-MIB::udpEndpointTable."
    ::= { udp 6 }

ipv6UdpEntry OBJECT-TYPE
    SYNTAX      Ipv6UdpEntry
    MAX-ACCESS  not-accessible
    STATUS      obsolete
    DESCRIPTION
        "Information about a particular current UDP listener.

         Note that conceptual rows in this table require an
         additional index object compared to udpTable, since
         IPv6 addresses are not guaranteed to be unique on the
         managed node.

         This entry is obsoleted by UDP-MIB::udpEndpointTable."
    INDEX   { ipv6UdpLocalAddress,
              ipv6UdpLocalPort,
              ipv6UdpIfIndex }
    ::= { ipv6UdpTable 1 }

Ipv6UdpEntry ::= SEQUENCE {
    ipv6UdpLocalAddress     Ipv6Address,
    ipv6UdpLocalPort        INTEGER,
    ipv6UdpIfIndex          Ipv6IfIndexOrZero }

ipv6UdpLocalAddress OBJECT-TYPE
    SYNTAX      Ipv6Address
    MAX-ACCESS  not-accessible
    STATUS      obsolete
    DESCRIPTION
        "The local IPv6 address for this UDP listener.
         In the case of a UDP listener which is willing
```

             to accept datagrams for any IPv6 address
             associated with the managed node, the value ::0
             is used.

             This object is obsoleted by UDP-MIB::udpEndpointLocalAddress."
       ::= { ipv6UdpEntry 1 }

 ipv6UdpLocalPort OBJECT-TYPE
     SYNTAX   INTEGER (0..65535)
     MAX-ACCESS not-accessible
     STATUS   obsolete
     DESCRIPTION
         "The local port number for this UDP listener.

         This object is obsoleted by UDP-MIB::udpEndpointLocalPort."
      ::= { ipv6UdpEntry 2 }

 ipv6UdpIfIndex OBJECT-TYPE
    SYNTAX   Ipv6IfIndexOrZero
    MAX-ACCESS   read-only
    STATUS   obsolete
    DESCRIPTION
        "An index object used to disambiguate conceptual rows in
         the table, since the ipv6UdpLocalAddress/ipv6UdpLocalPort
         pair may not be unique.

         This object identifies the local interface that is
         associated with ipv6UdpLocalAddress for this UDP listener.
         If such a local interface cannot be determined, this object
         should take on the value 0. (A possible example of this
         would be if the value of ipv6UdpLocalAddress is ::0.)

         The interface identified by a particular non-0 value of
         this index is the same interface as identified by the same
         value of ipv6IfIndex.

         The value of this object must remain constant during
         the life of this UDP endpoint.

         This object is obsoleted by the zone identifier in
         an InetAddressIPv6z address in
         UDP-MIB::udpEndpointLocalAddress."
     ::= { ipv6UdpEntry 3 }

 --
 -- conformance information
 --

```
 ipv6UdpConformance OBJECT IDENTIFIER ::= { ipv6UdpMIB 2 }

 ipv6UdpCompliances OBJECT IDENTIFIER ::= { ipv6UdpConformance 1 }
 ipv6UdpGroups      OBJECT IDENTIFIER ::= { ipv6UdpConformance 2 }

 -- compliance statements

 ipv6UdpCompliance MODULE-COMPLIANCE
    STATUS  obsolete
    DESCRIPTION
        "The compliance statement for SNMPv2 entities which
         implement UDP over IPv6.

         This object is obsoleted by UDP-MIB::udpMIBCompliance2."
    MODULE  -- this module
    MANDATORY-GROUPS { ipv6UdpGroup }
    ::= { ipv6UdpCompliances 1 }

 ipv6UdpGroup OBJECT-GROUP
    OBJECTS   { -- these are defined in this module
                -- ipv6UdpLocalAddress (not-accessible)
                -- ipv6UdpLocalPort (not-accessible)
                ipv6UdpIfIndex }
    STATUS    obsolete
    DESCRIPTION
        "The group of objects providing management of
         UDP over IPv6.

         This group is obsoleted by several groups in UDP-MIB."
    ::= { ipv6UdpGroups 1 }

 END
```

[6](#). **Historic IPV6-TCP-MIB**

```
IPV6-TCP-MIB DEFINITIONS ::= BEGIN

IMPORTS
   MODULE-COMPLIANCE, OBJECT-GROUP      FROM SNMPv2-CONF
   MODULE-IDENTITY, OBJECT-TYPE,
   mib-2, experimental                 FROM SNMPv2-SMI
   Ipv6Address, Ipv6IfIndexOrZero      FROM IPV6-TC;

ipv6TcpMIB MODULE-IDENTITY
   LAST-UPDATED "201505282112Z"
   ORGANIZATION "IETF IPv6 MIB Working Group"
   CONTACT-INFO
        "        Mike Daniele
```

                    Postal: Compaq Computer Corporation
                            110 Spitbrook Rd
                            Nashua, NH 03062.
                            US

                    Phone: +1 603 884 1423
                    Email: daniele@zk3.dec.com"
    DESCRIPTION
        "The obsolete MIB module for entities implementing TCP
        over IPv6. Use the TCP-MIB instead."
    REVISION "201505282112Z"
    DESCRIPTION
        "Obsoleting this MIB module; it has been replaced by
        the revised TCP-MIB (RFC4022)."
    REVISION "9801290000Z"
    DESCRIPTION
        "First revision, published as RFC2452"
    ::= { experimental 86 }

-- objects specific to TCP for IPv6

tcp   OBJECT IDENTIFIER ::= { mib-2 6 }

-- the TCP over IPv6 Connection table

-- This connection table contains information about this
-- entity's existing TCP connections between IPv6 endpoints.
-- Only connections between IPv6 addresses are contained in
-- this table. This entity's connections between IPv4
-- endpoints are contained in tcpConnTable.

ipv6TcpConnTable OBJECT-TYPE
    SYNTAX   SEQUENCE OF Ipv6TcpConnEntry
    MAX-ACCESS   not-accessible
    STATUS   obsolete
    DESCRIPTION
        "A table containing TCP connection-specific information,
         for only those connections whose endpoints are IPv6 addresses.

         This table is obsoleted by TCP-MIB::tcpConnectionTable."
    ::= { tcp 16 }

ipv6TcpConnEntry OBJECT-TYPE
    SYNTAX   Ipv6TcpConnEntry
    MAX-ACCESS   not-accessible
    STATUS   obsolete
    DESCRIPTION
        "A conceptual row of the ipv6TcpConnTable containing

          information about a particular current TCP connection.
          Each row of this table is transient, in that it ceases to
          exist when (or soon after) the connection makes the transition
          to the CLOSED state.

          Note that conceptual rows in this table require an additional
          index object compared to tcpConnTable, since IPv6 addresses
          are not guaranteed to be unique on the managed node.

          This entry is obsoleted by TCP-MIB::tcpConnectionEntry."
    INDEX   { ipv6TcpConnLocalAddress,
              ipv6TcpConnLocalPort,
              ipv6TcpConnRemAddress,
              ipv6TcpConnRemPort,
              ipv6TcpConnIfIndex }
    ::= { ipv6TcpConnTable 1 }

Ipv6TcpConnEntry ::=
    SEQUENCE { ipv6TcpConnLocalAddress   Ipv6Address,
              ipv6TcpConnLocalPort   INTEGER,
              ipv6TcpConnRemAddress   Ipv6Address,
              ipv6TcpConnRemPort   INTEGER,
              ipv6TcpConnIfIndex   Ipv6IfIndexOrZero,
              ipv6TcpConnState   INTEGER }

ipv6TcpConnLocalAddress OBJECT-TYPE
    SYNTAX   Ipv6Address
    MAX-ACCESS not-accessible
    STATUS   obsolete
    DESCRIPTION
         "The local IPv6 address for this TCP connection. In
          the case of a connection in the listen state which
          is willing to accept connections for any IPv6
          address associated with the managed node, the value
          ::0 is used.

          This object is obsoleted by
          TCP-MIB::tcpConnectionLocalAddressType."
    ::= { ipv6TcpConnEntry 1 }

ipv6TcpConnLocalPort OBJECT-TYPE
    SYNTAX   INTEGER (0..65535)
    MAX-ACCESS not-accessible
    STATUS   obsolete
    DESCRIPTION
         "The local port number for this TCP connection.

          This object is obsoleted by TCP-MIB::tcpConnectionLocalPort."

        ::= { ipv6TcpConnEntry 2 }

ipv6TcpConnRemAddress OBJECT-TYPE
    SYNTAX   Ipv6Address
    MAX-ACCESS not-accessible
    STATUS   obsolete
    DESCRIPTION
        "The remote IPv6 address for this TCP connection.

        This object is obsoleted by TCP-MIB::tcpConnectionRemAddress."
    ::= { ipv6TcpConnEntry 3 }

ipv6TcpConnRemPort OBJECT-TYPE
    SYNTAX   INTEGER (0..65535)
    MAX-ACCESS not-accessible
    STATUS   obsolete
    DESCRIPTION
        "The remote port number for this TCP connection.

        This object is obsoleted by TCP-MIB::tcpConnectionRemPort."
    ::= { ipv6TcpConnEntry 4 }

ipv6TcpConnIfIndex OBJECT-TYPE
    SYNTAX   Ipv6IfIndexOrZero
    MAX-ACCESS not-accessible
    STATUS   obsolete
    DESCRIPTION
        "An index object used to disambiguate conceptual rows in
         the table, since the connection 4-tuple may not be unique.

         If the connection's remote address (ipv6TcpConnRemAddress)
         is a link-local address and the connection's local address
         (ipv6TcpConnLocalAddress) is not a link-local address, this
         object identifies a local interface on the same link as
         the connection's remote link-local address.

         Otherwise, this object identifies the local interface that
         is associated with the ipv6TcpConnLocalAddress for this
         TCP connection. If such a local interface cannot be determined,
         this object should take on the value 0. (A possible example
         of this would be if the value of ipv6TcpConnLocalAddress is ::0.)

         The interface identified by a particular non-0 value of this
         index is the same interface as identified by the same value
         of ipv6IfIndex.

         The value of this object must remain constant during the life
         of the TCP connection.

        This object is obsoleted by the zone identifier in
        an InetAddressIPv6z address in either
        TCP-MIB::tcpConnectionLocalAddress or
        TCP-MIB::tcpConnectionRemAddress."
   ::= { ipv6TcpConnEntry 5 }

ipv6TcpConnState OBJECT-TYPE
   SYNTAX   INTEGER {
        closed(1),
        listen(2),
        synSent(3),
        synReceived(4),
        established(5),
        finWait1(6),
        finWait2(7),
        closeWait(8),
        lastAck(9),
        closing(10),
        timeWait(11),
        deleteTCB(12) }
   MAX-ACCESS read-write
   STATUS   obsolete
   DESCRIPTION
        "The state of this TCP connection.

        The only value which may be set by a management station is
        deleteTCB(12). Accordingly, it is appropriate for an agent
        to return an error response (`badValue' for SNMPv1, 'wrongValue'
        for SNMPv2) if a management station attempts to set this
        object to any other value.

        If a management station sets this object to the value
        deleteTCB(12), then this has the effect of deleting the TCB
        (as defined in RFC 793) of the corresponding connection on
        the managed node, resulting in immediate termination of the
        connection.

        As an implementation-specific option, a RST segment may be
        sent from the managed node to the other TCP endpoint (note
        however that RST segments are not sent reliably).

        This object is obsoleted by TCP-MIB::tcpConnectionState."
   ::= { ipv6TcpConnEntry 6 }

--
-- conformance information
--

```
ipv6TcpConformance OBJECT IDENTIFIER ::= { ipv6TcpMIB 2 }

ipv6TcpCompliances OBJECT IDENTIFIER ::= { ipv6TcpConformance 1 }
ipv6TcpGroups      OBJECT IDENTIFIER ::= { ipv6TcpConformance 2 }

-- compliance statements

ipv6TcpCompliance MODULE-COMPLIANCE
   STATUS  obsolete
   DESCRIPTION
       "The compliance statement for SNMPv2 entities which
        implement TCP over IPv6.

        This compliance statement is obsoleted by
        TCP-MIB::tcpMIBCompliance2."
   MODULE  -- this module
   MANDATORY-GROUPS { ipv6TcpGroup }
   ::= { ipv6TcpCompliances 1 }

ipv6TcpGroup OBJECT-GROUP
   OBJECTS   { -- these are defined in this module
               -- ipv6TcpConnLocalAddress (not-accessible)
               -- ipv6TcpConnLocalPort (not-accessible)
               -- ipv6TcpConnRemAddress (not-accessible)
               -- ipv6TcpConnRemPort (not-accessible)
               -- ipv6TcpConnIfIndex (not-accessible)
               ipv6TcpConnState }
   STATUS    obsolete
   DESCRIPTION
       "The group of objects providing management of
        TCP over IPv6.

        This group is obsoleted by several groups in TCP-MIB."
   ::= { ipv6TcpGroups 1 }

END
```

7. Reclassification

This document reclassifies [RFC2452], [RFC2454], [RFC2465], and
[RFC2466] to Historic.

8. Security Considerations

This document contains only obsolete objects, which [RFC2578] says
"should not be implemented and/or can be removed if previously
implemented". Since the contents of this document should not be
implemented, it has no security implications. If there were any

security implications based on these objects in an implementation, removing these objects as [RFC2578] suggests would improve the security of that implementation.

9. IANA Considerations

In smi-numbers [1], the entries for RFC2452 and RFC2454, in the "SMI Experimental Codes" section, have an annotation "(Historic)" or "(Historical)".

IANA is asked to make the following changes to the "SMI Network Management MGMT Codes Internet-standard MIB" section:

o Remove RFC1213 from the references for mib-2.5 "icmp".

o Update the reference for mib-2.6 "tcp" to point to RFC4022.

o Remove RFC1213 from the references for mib-2.7 "udp".

o Remove RFC2012 from the references for mib-2.49 "tcpMIB".

o Add the "(Historic)" annotation for the entries for mib-2.55 "ipv6MIB" and for mib-2.56 "ipv6IcmpMIB", and update the reference to point to this document.

IANA is asked to make the following changes to the "SMI Experimental Codes" section:

o Add the "(Historic)" annotation for experimental.74 "IPV6 MIB"

o Change the "(Historical)" annotation for experimental.87 "ipv6UdpMIB" to "(Historic)"

o Update the reference for experimental.86 "ipv6TcpMIB" and experimental.87 "ipv6UdpMIB" to point to this document.

10. References

10.1. Normative References

[RFC2578] McCloghrie, K., Ed., Perkins, D., Ed., and J. Schoenwaelder, Ed., "Structure of Management Information Version 2 (SMIv2)", STD 58, RFC 2578, DOI 10.17487/ RFC2578, April 1999, <http://www.rfc-editor.org/info/rfc2578>.

10.2. Informative References

   [RFC2452] Daniele, M., "IP Version 6 Management Information Base for
              the Transmission Control Protocol", RFC 2452, DOI
              10.17487/RFC2452, December 1998,
              <http://www.rfc-editor.org/info/rfc2452>.

   [RFC2454] Daniele, M., "IP Version 6 Management Information Base for
              the User Datagram Protocol", RFC 2454, DOI 10.17487/
              RFC2454, December 1998,
              <http://www.rfc-editor.org/info/rfc2454>.

   [RFC2465] Haskin, D. and S. Onishi, "Management Information Base for
              IP Version 6: Textual Conventions and General Group", RFC
              2465, DOI 10.17487/RFC2465, December 1998,
              <http://www.rfc-editor.org/info/rfc2465>.

   [RFC2466] Haskin, D. and S. Onishi, "Management Information Base for
              IP Version 6: ICMPv6 Group", RFC 2466, DOI 10.17487/
              RFC2466, December 1998,
              <http://www.rfc-editor.org/info/rfc2466>.

   [RFC4022] Raghunarayan, R., Ed., "Management Information Base for
              the Transmission Control Protocol (TCP)", RFC 4022, DOI
              10.17487/RFC4022, March 2005,
              <http://www.rfc-editor.org/info/rfc4022>.

   [RFC4113] Fenner, B. and J. Flick, "Management Information Base for
              the User Datagram Protocol (UDP)", RFC 4113, DOI 10.17487/
              RFC4113, June 2005,
              <http://www.rfc-editor.org/info/rfc4113>.

   [RFC4292] Haberman, B., "IP Forwarding Table MIB", RFC 4292, DOI
              10.17487/RFC4292, April 2006,
              <http://www.rfc-editor.org/info/rfc4292>.

   [RFC4293] Routhier, S., Ed., "Management Information Base for the
              Internet Protocol (IP)", RFC 4293, DOI 10.17487/RFC4293,
              April 2006, <http://www.rfc-editor.org/info/rfc4293>.

10.3. URIs

   [1] http://www.iana.org/assignments/smi-numbers/smi-numbers.xhtml

Appendix A. Change history

A.1. Changes since draft-ietf-6man-ipv6-mibs-obsolete-01

   Thanks to an excellent review by Mike Heard.

   o Correct the REVISION clause for the original IPV6-MIB

   o Remove the illegal sub-typing from SEQUENCE definitions in
      IPV6-MIB, IPV6-UDP-MIB and IPV6-TCP-MIB.

A.2. Changes since draft-fenner-ipv6-mibs-obsolete-00

   o Realized that IPV6-ICMP-MIB was [RFC2466], so modified the added
      REVISION clause and the Reclassification section.

   o Added Security Considerations

   o Added IANA Considerations

   o Added the 6.c.iii Legend to the copyright statement, since the
      original RFCs were published before pre-5378.

   o Used "MIB module" instead of "MIB" when referring to a module, and
      changed REVISION DESCRIPTION to "Obsoleting", not "Deprecating".

   o Added "Obsoletes:" header to document

   o Switched to pre-5378 IPR statement, since the original RFCs were
      pre-5378.

A.3. Changes since draft-fenner-ipv6-mibs-obsolete-01

   o Updated the DESCRIPTION of MODULE-IDENTITY to improve the "MIB
      index" problem.

   o Updated IANA considerations.

A.4. Changes since draft-fenner-ipv6-mibs-obsolete-02

   o Fixed "IPV6-MIB" in title

   o Fixed some extra blank lines in the source MIBs, introduced by the
      process of extraction from RFCs.

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