Appendiks/Appendix 3.

IP-MIB DEFINITIONS ::= BEGIN
IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, Integer32,
    Counter32, IpAddress, mib-2   FROM SNMPv2-SMI
    PhysAddress   FROM SNMPv2-TC

ipMIB MODULE-IDENTITY
    LAST-UPDATED "9411010000Z"
    ORGANIZATION "IETF SNMPv2 Working Group"
    CONTACT-INFO "Keith McCloghrie"
    DESCRIPTION
            "The MIB module for managing IP and ICMP implementations,
            but excluding their management of IP routes."
    REVISION   "9103310000Z"
    DESCRIPTION
            "Initial revision of this MIB module was part of MIB-II."
    ::= { mib-2 48}

ip   OBJECT IDENTIFIER ::= { mib-2 4 }

-- the IP address table
ipAddrTable OBJECT-TYPE
    SYNTAX   SEQUENCE OF IpAddrEntry
    MAX-ACCESS not-accessible
    STATUS   current
    DESCRIPTION
            "The table of addressing information relevant to this
            entity's IP addresses."
    ::= { ip 20 }

ipAddrEntry OBJECT-TYPE
    SYNTAX   IpAddrEntry
    MAX-ACCESS not-accessible
    STATUS   current
    DESCRIPTION
            "The addressing information for one of this entity's IP
            addresses."
    INDEX   { ipAdEntAddr }
    ::= { ipAddrTable 1 }

IpAddrEntry ::= SEQUENCE {
        ipAdEntAddr   IpAddress,
        ipAdEntIfIndex   INTEGER,
        ipAdEntNetMask   IpAddress,
        ipAdEntBcastAddr   INTEGER,
        ipAdEntReasmMaxSize INTEGER
    }

ipAdEntAddr OBJECT-TYPE
    SYNTAX   IpAddress
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
            "The IP address to which this entry's addressing information
            pertains."
    ::= { ipAddrEntry 1 }

ipAdEntIfIndex OBJECT-TYPE
    SYNTAX   INTEGER (1..2147483647)
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
            "The index value which uniquely identifies the interface to
            which this entry is applicable. The interface identified by
            a particular value of this index is the same interface as
            identified by the same value of RFC 1573's ifIndex."

```
    ::= { ipAddrEntry 2 }

ipAdEntNetMask OBJECT-TYPE
    SYNTAX        IpAddress
    MAX-ACCESS  read-only
    STATUS        current
    DESCRIPTION
            "The subnet mask associated with the IP address of this
            entry.  The value of the mask is an IP address with all the
            network bits set to 1 and all the hosts bits set to 0."
    ::= { ipAddrEntry 3 }

ipAdEntBcastAddr OBJECT-TYPE
    SYNTAX        INTEGER (0..1)
    MAX-ACCESS  read-only
    STATUS        current
    DESCRIPTION
            "The value of the least-significant bit in the IP broadcast
            address used for sending datagrams on the (logical)
            interface associated with the IP address of this entry.  For
            example, when the Internet standard all-ones broadcast
            address is used, the value will be 1.  This value applies to
            both the subnet and network broadcasts addresses used by the
            entity on this (logical) interface."
    ::= { ipAddrEntry 4 }

ipAdEntReasmMaxSize OBJECT-TYPE
    SYNTAX        INTEGER (0..65535)
    MAX-ACCESS  read-only
    STATUS        current
    DESCRIPTION
            "The size of the largest IP datagram which this entity can
            re-assemble from incoming IP fragmented datagrams received
            on this interface."
    ::= { ipAddrEntry 5 }

-- the IP Address Translation table

-- The Address Translation tables contain the IpAddress to
-- "physical" address equivalences.

ipNetToMediaTable OBJECT-TYPE
    SYNTAX        SEQUENCE OF IpNetToMediaEntry
    MAX-ACCESS  not-accessible
    STATUS        current
    DESCRIPTION
            "The IP Address Translation table used for mapping from IP
            addresses to physical addresses."
    ::= { ip 22 }

ipNetToMediaEntry OBJECT-TYPE
    SYNTAX        IpNetToMediaEntry
    MAX-ACCESS  not-accessible
    STATUS        current
    DESCRIPTION
            "Each entry contains one IpAddress to `physical' address
            equivalence."
    INDEX        { ipNetToMediaIfIndex,
                     ipNetToMediaNetAddress }
    ::= { ipNetToMediaTable 1 }

IpNetToMediaEntry ::= SEQUENCE {
        ipNetToMediaIfIndex        INTEGER,
        ipNetToMediaPhysAddress  PhysAddress,
        ipNetToMediaNetAddress    IpAddress,
        ipNetToMediaType            INTEGER
    }
```

```
ipNetToMediaIfIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..2147483647)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
            "The interface on which this entry's equivalence is
            effective.  The interface identified by a particular value
            of this index is the same interface as identified by the
            same value of RFC 1573's ifIndex."
    ::= { ipNetToMediaEntry 1 }

ipNetToMediaPhysAddress OBJECT-TYPE
    SYNTAX      PhysAddress
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
            "The media-dependent `physical' address."
    ::= { ipNetToMediaEntry 2 }

ipNetToMediaNetAddress OBJECT-TYPE
    SYNTAX      IpAddress
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
            "The IpAddress corresponding to the media-dependent
            `physical' address."
    ::= { ipNetToMediaEntry 3 }

ipNetToMediaType OBJECT-TYPE
    SYNTAX      INTEGER {
                other(1),        -- none of the following
                invalid(2),      -- an invalidated mapping
                dynamic(3),
                static(4)
            }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
            "The type of mapping"
    ::= { ipNetToMediaEntry 4 }

ipRoutingDiscards OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    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."
    ::= { ip 23 }
END
```