Network Working Group   J. Postel
Request for Comments: 790   ISI
                                                          September 1981

Obsoletes RFCs: 776, 770, 762, 758,
755, 750, 739, 604, 503, 433, 349
Obsoletes IENs: 127, 117, 93

                            ASSIGNED NUMBERS

This Network Working Group Request for Comments documents the currently
assigned values from several series of numbers used in network protocol
implementations. This RFC will be updated periodically, and in any case
current information can be obtained from Jon Postel. The assignment of
numbers is also handled by Jon. If you are developing a protocol or
application that will require the use of a link, socket, port, protocol,
or network number please contact Jon to receive a number assignment.

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Most of the protocols mentioned here are documented in the RFC series of
notes. The more prominent and more generally used are documented in the
Protocol Handbook [17] prepared by the Network Information Center (NIC).
Some of the items listed are undocumented. In all cases the name and
mailbox of the responsible individual is indicated. In the lists that
follow, a bracketed entry, e.g., [17,iii], at the right hand margin of
the page indicates a reference for the listed protocol, where the number
cites the document and the "iii" cites the person.

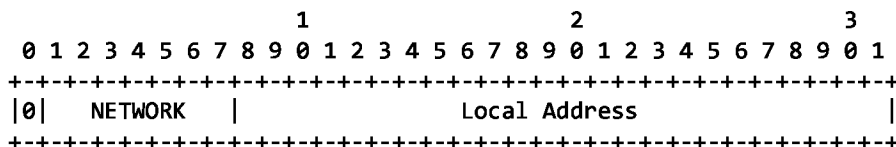Postel   [Page 1]

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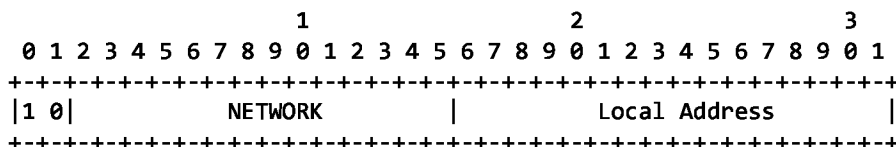   ASSIGNED NETWORK NUMBERS

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   This list of network numbers is used in the internet address [33].
   The Internet Protocol (IP) uses a 32 bit address and divides that
   address into a network part and a "rest" or local address part.  The
   division takes 3 forms or classes.

      The first type, or class a, of address has a 7-bit network number
      and a 24-bit local address.  This allows 128 class a networks.

                      1                   2                   3
        0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
       +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
       |0|   NETWORK   |                 Local Address                 |
       +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

                           Class A Address

      The second type, or class b, of address has a 14-bit network
      number and a 16-bit local address.  This allows 16,384 class b
      networks.

                      1                   2                   3
        0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
       +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
       |1 0|          NETWORK         |         Local Address          |
       +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

                           Class B Address

      The third type, or class c, of address has a 21-bit network number
      and a 8-bit local address.  This allows 2,097,152 class c
      networks.

                      1                   2                   3
        0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
       +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
       |1 1 0|                   NETWORK              | Local Address  |
       +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

                           Class C Address

   One notation for internet host addresses commonly used divides the
   32-bit address into four 8-bit fields and specifies the value of each
   field as a decimal number with the fields separated by periods.  For
   example, the internet address of ISIF is 010.020.000.052.

   This notation will be used in the listing of assigned network
```
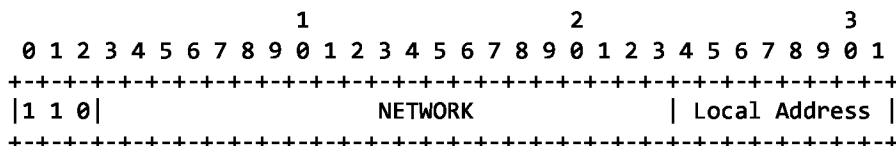
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      numbers.  The class a networks will have nnn.rrr.rrr.rrr, the class b
      networks will have nnn.nnn.rrr.rrr, and the class c networks will
      have nnn.nnn.nnn.rrr, where nnn represents part or all of a network
      number and rrr represents part or all of a local address or rest
      field.

      Assigned Network Numbers

      Class A Networks

         Internet Address    Name          Network                References
         ----------------    ----          -------                ----------
         000.rrr.rrr.rrr                    Reserved                  [JBP]
         001.rrr.rrr.rrr     BBN-PR         BBN Packet Radio Network  [DCA2]
         002.rrr.rrr.rrr     SF-PR-1        SF Packet Radio Network (1) [JEM]
         003.rrr.rrr.rrr     BBN-RCC        BBN RCC Network           [SGC]
         004.rrr.rrr.rrr     SATNET         Atlantic Satellite Network [DM11]
         005.rrr.rrr.rrr     SILL-PR        Ft. Sill Packet Radio Network[JEM]
         006.rrr.rrr.rrr     SF-PR-2        SF Packet Radio Network (2) [JEM]
         007.rrr.rrr.rrr     CHAOS          MIT CHAOS Network         [MOON]
         008.rrr.rrr.rrr     CLARKNET       SATNET subnet for Clarksburg[DM11]
         009.rrr.rrr.rrr     BRAGG-PR       Ft. Bragg Packet Radio Net [JEM]
         010.rrr.rrr.rrr     ARPANET        ARPANET                   [17,1,VGC]
         011.rrr.rrr.rrr     UCLNET         University College London  [PK]
         012.rrr.rrr.rrr     CYCLADES       CYCLADES                  [VGC]
         013.rrr.rrr.rrr                    Unassigned                [JBP]
         014.rrr.rrr.rrr     TELENET        TELENET                   [VGC]
         015.rrr.rrr.rrr     EPSS           British Post Office EPSS   [PK]
         016.rrr.rrr.rrr     DATAPAC        DATAPAC                   [VGC]
         017.rrr.rrr.rrr     TRANSPAC       TRANSPAC                  [VGC]
         018.rrr.rrr.rrr     LCSNET         MIT LCS Network           [43,10,DDC2]
         019.rrr.rrr.rrr     TYMNET         TYMNET                    [VGC]
         020.rrr.rrr.rrr     DC-PR          D.C. Packet Radio Network  [VGC]
         021.rrr.rrr.rrr     EDN            DCEC EDN                  [EC5]
         022.rrr.rrr.rrr     DIALNET        DIALNET                   [26,16,MRC]
         023.rrr.rrr.rrr     MITRE          MITRE Cablenet            [44,APS]
         024.rrr.rrr.rrr     BBN-LOCAL      BBN Local Network         [SGC]
         025.rrr.rrr.rrr     RSRE-PPSN      RSRE / PPSN               [BD2]
         026.rrr.rrr.rrr     AUTODIN-II     AUTODIN II                [EC5]
         027.rrr.rrr.rrr     NOSC-LCCN      NOSC / LCCN               [KTP]
         028.rrr.rrr.rrr     WIDEBAND       Wide Band Satellite Network [CJW2]
         029.rrr.rrr.rrr     DCN-COMSAT     COMSAT Dist. Comp. Network [DLM1]
         030.rrr.rrr.rrr     DCN-UCL        UCL Dist. Comp. Network    [PK]
         031.rrr.rrr.rrr     BBN-SAT-TEST   BBN SATNET Test Network    [DM11]
         032.rrr.rrr.rrr     UCL-CR1        UCL Cambridge Ring 1       [PK]
         033.rrr.rrr.rrr     UCL-CR2        UCL Cambridge Ring 2       [PK]
         034.rrr.rrr.rrr     MATNET         Mobile Access Terminal Net [DM11]
         035.rrr.rrr.rrr     NULL           UCL/RSRE Null Network      [BD2]


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        036.rrr.rrr.rrr     SU-NET          Stanford University Ethernet [MRC]
        037.rrr.rrr.rrr     DECNET          Digital Equipment Network    [DRL]
        038.rrr.rrr.rrr     DECNET-TEST     Test Digital Equipment Net   [DRL]
        039.rrr.rrr.rrr     SRINET          SRI Local Network            [GEOF]
        040.rrr.rrr.rrr     CISLNET         CISL Multics Network         [CH2]
        041.rrr.rrr.rrr     BBN-LN-TEST     BBN Local Network Testbed    [KTP]
        042.rrr.rrr.rrr     S1NET           LLL-S1-NET                   [EAK]
        043.rrr.rrr.rrr     INTELPOST       COMSAT INTELPOST             [DLM1]
        044.rrr.rrr.rrr     AMPRNET         Amature Radio Experiment Net [HM]
        044.rrr.rrr.rrr-126.rrr.rrr.rrr Unassigned                      [JBP]
        127.rrr.rrr.rrr                     Reserved                     [JBP]

   Class B Networks

        Internet Address   Name          Network             References
        ----------------   ----          -------             ----------
        128.000.rrr.rrr                  Reserved                     [JBP]
        128.001.rrr.rrr-128.254.rrr.rrr Unassigned                    [JBP]
        191.255.rrr.rrr                  Reserved                     [JBP]

   Class C Networks

        Internet Address   Name          Network             References
        ----------------   ----          -------             ----------
        192.000.001.rrr                  Reserved                     [JBP]
        192.000.001.rrr-223.255.254.rrr Unassigned                    [JBP]
        223.255.255.rrr                  Reserved                     [JBP]

   Other Reserved Internet Addresses

        Internet Address   Name          Network             References
        ----------------   ----          -------             ----------
        224.000.000.000-255.255.255.255 Reserved                     [JBP]
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