Network Working Group
Request for Comments: 790

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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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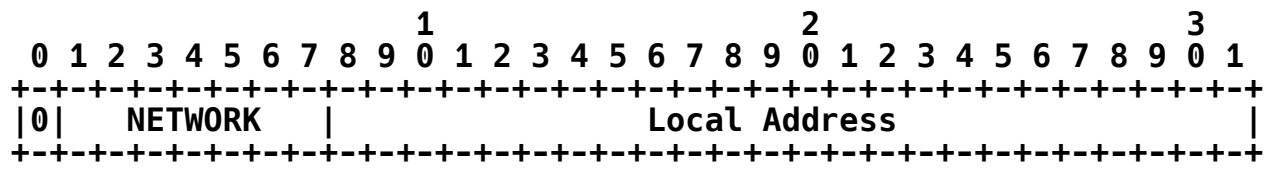
Most of the protocols mentioned here are documented in the RFC series of notes. The more prominent and more generally used are documented in the Protocol Handbook [17] prepared by the Network Information Center (NIC). Some of the items listed are undocumented. In all cases the name and mailbox of the 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.

ASSIGNED NETWORK NUMBERS

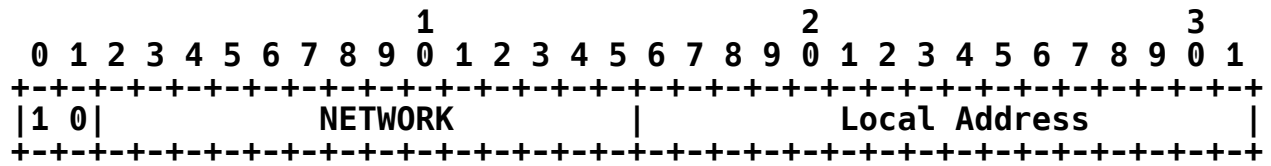
This list of network numbers is used in the internet address [33]. The Internet Protocol (IP) uses a 32 bit address and divides that address into a network part and a "rest" or local address part. The division takes 3 forms or classes.

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.



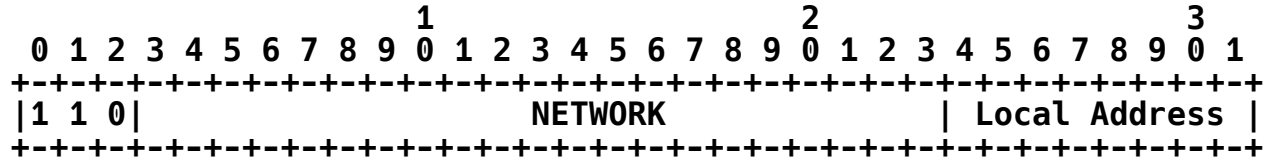
Class A Address

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.



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.



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

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]

Network Numbers

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]

ASSIGNED INTERNET VERSION NUMBERS

In the Internet Protocol (IP) [33] there is a field to identify the version of the internetwork general protocol. This field is 4 bits in size.

Assigned Internet Version Numbers

Decimal	Octal	Version	References
0	0	Reserved	[JBP]
1-3	1-3	Unassigned	[JBP]
4	4	Internet Protocol	[33,JBP]
5	5	ST Datagram Mode	[20,JWF]
6-14	6-16	Unassigned	[JBP]
15	17	Reserved	[JBP]

ASSIGNED INTERNET PROTOCOL NUMBERS

In the Internet Protocol (IP) [33] there is a field, called Protocol, to identify the the next level protocol. This is an 8 bit field.

Assigned Internet Protocol Numbers

Decimal	Octal	Protocol Numbers	References
0	0	Reserved	[JBP]
1	1	ICMP	[53,JBP]
2	2	Unassigned	[JBP]
3	3	Gateway-to-Gateway	[48,49,VMS]
4	4	CMCC Gateway Monitoring Message	[18,19,DFP]
5	5	ST	[20,JWF]
6	6	TCP	[34,JBP]
7	7	UCL	[PK]
8	10	Unassigned	[JBP]
9	11	Secure	[VGC]
10	12	BBN RCC Monitoring	[VMS]
11	13	NVP	[12,DC]
12	14	PUP	[4,EAT3]
13	15	Pluribus	[RDB2]
14	16	Telenet	[RDB2]
15	17	XNET	[25,JFH2]
16	20	Chaos	[MOON]
17	21	User Datagram	[42,JBP]
18	22	Multiplexing	[13,JBP]
19	23	DCN	[DLM1]
20	24	TAC Monitoring	[55,RH6]
21-62	25-76	Unassigned	[JBP]
63	77	any local network	[JBP]
64	100	SATNET and Backroom EXPAK	[DM11]
65	101	MIT Subnet Support	[NC3]
66-68	102-104	Unassigned	[JBP]
69	105	SATNET Monitoring	[DM11]
70	106	Unassigned	[JBP]
71	107	Internet Packet Core Utility	[DM11]
72-75	110-113	Unassigned	[JBP]
76	114	Backroom SATNET Monitoring	[DM11]
77	115	Unassigned	[JBP]
78	116	WIDEBAND Monitoring	[DM11]
79	117	WIDEBAND EXPAK	[DM11]
80-254	120-376	Unassigned	[JBP]
255	377	Reserved	[JBP]

ASSIGNED PORT or SOCKET NUMBERS

Ports are used in the TCP [34] and sockets are used in the AHHP [28,17] to name the ends of logical connections which carry long term conversations. For the purpose of providing services to unknown callers a service contact socket is defined. This list specifies the port or socket used by the server process as its contact socket. In the AHHP an Initial Connection Procedure ICP [39,17] is used between the user process and the server process to make the initial contact and establish the long term connections leaving the contact socket free to handle other callers. In the TCP no ICP is necessary since a port may engage in many simultaneous connections.

To the extent possible these same port assignments are used with UDP [42].

The assigned ports/sockets use a small part of the possible port/socket numbers. The assigned ports/sockets have all except the low order eight bits cleared to zero. The low order eight bits are specified here.

Socket Assignments:

General Assignments:

Decimal	Octal	Description
0-63	0-77	Network Wide Standard Function
64-131	100-203	Hosts Specific Functions
132-223	204-337	Reserved for Future Use
224-255	340-377	Any Experimental Function

Specific Assignments:

Network Standard Functions

Decimal	Octal	Description	References
1	1	Old Telnet	[40,JBP]
3	3	Old File Transfer	[27,11,24,JBP]
5	5	Remote Job Entry	[6,17,JBP]
7	7	Echo	[35,JBP]
9	11	Discard	[32,JBP]
11	13	Who is on or SYSTAT	[JBP]
13	15	Date and Time	[JBP]
15	17	Who is up or NETSTAT	[JBP]
17	21	Short Text Message	[JBP]
19	23	Character generator or TTYTST	[31,JBP]
21	25	New File Transfer	[36,JBP]
23	27	New Telnet	[41,JBP]
25	31	SMTP	[54,JBP]
27	33	NSW User System w/COMPASS FE	[14,RHT]
29	35	MSG-3 ICP	[29,RHT]
31	37	MSG-3 Authentication	[29,RHT]
33	41	Unassigned	[JBP]
35	43	IO Station Spooler	[JBP]
37	45	Time Server	[22,JBP]
39	47	Unassigned	[JBP]
41	51	Graphics	[46,17,JBP]
42	52	Name Server	[38,JBP]
43	53	WhoIs	[JAKE]
45	55	Message Processing Module	[37,JBP]
47	57	NI FTP	[50,CJB]
49	61	RAND Network Graphics Conference	[30,MO2]
51	63	Message Generator Control	[52,DFP]
53	65	AUTODIN II FTP	[21,EC5]
55	67	ISI Graphics Language	[3,RB6]
57	71	MTP	[45,JBP]
59	73	New MIT Host Status	[SWG]
61-63	75-77	Unassigned	[JBP]

Host Specific Functions

Decimal	Octal	Description	References
65	101	Unassigned	[JBP]
67	103	Datacomputer at CCA	[8,JZS]
69	105	Unassigned	[JBP]
69	105	Trivial File Transfer	[47,KRS]
71	107	NETRJS (EBCDIC) at UCLA-CCN	[5,17,RTB]
73	111	NETRJS (ASCII-68) at UCLA-CCN	[5,17,RTB]
75	113	NETRJS (ASCII-63) at UCLA-CCN	[5,17,RTB]
77	115	any private RJE server	[JBP]
79	117	Name or Finger	[23,17,KLH]
81	121	Unassigned	[JBP]
83	123	MIT ML Device	[MOON]
85	125	MIT ML Device	[MOON]
87	127	any terminal link	[JBP]
89	131	SU/MIT Telnet Gateway	[MRC]
91	133	MIT Dover Spooler	[EBM]
93	135	BBN RCC Accounting	[DT]
95	137	SUPDUP	[15,MRC]
97	141	Datacomputer Status	[8,JZS]
99	143	CADC - NIFTP via UCL	[PLH]
101	145	NPL - NIFTP via UCL	[PLH]
103	147	BNPL - NIFTP via UCL	[PLH]
105	151	CAMBRIDGE - NIFTP via UCL	[PLH]
107	153	HARWELL - NIFTP via UCL	[PLH]
109	155	SWURCC - NIFTP via UCL	[PLH]
111	157	ESSEX - NIFTP via UCL	[PLH]
113	161	RUTHERFORD - NIFTP via UCL	[PLH]
115-129	163-201	Unassigned	[JBP]
131	203	Datacomputer	[8,JZS]

Reserved for Future Use

Decimal	Octal	Description	References
132-223	204-337	Reserved	[JBP]

Port or Socket Numbers

Experimental Functions

Decimal	Octal	Description	References
224-239	340-357	Unassigned	[JBP]
241	361	NCP Measurement	[9,JBP]
243	363	Survey Measurement	[2,AV]
245	365	LINK	[7,RDB2]
247	367	TIPSRV	[RHT]
249-255	371-377	RSEXEC	[51,RHT]

ASSIGNED LINK NUMBERS

The word "link" here refers to a field in the original ARPANET Host/IMP interface leader. The link was originally defined as an 8 bit field. Some time after the ARPANET Host-to-Host (AHHP) protocol was defined and, by now, some time ago the definition of this field was changed to "Message-ID" and the length to 12 bits. The name link now refers to the high order 8 bits of this 12 bit message-id field. The low order 4 bits of the message-id field are to be zero unless specifically specified otherwise for the particular protocol used on that link. The Host/IMP interface is defined in BBN report 1822 [1].

Link Assignments:

Decimal	Octal	Description	References
0	0	AHHP Control Messages	[28,17,JBP]
1	1	Reserved	[JBP]
2-71	2-107	AHHP Regular Messages	[28,17,JBP]
72-150	110-226	Reserved	[JBP]
151	227	CHAOS Protocol	[MOON]
152	230	PARC Universal Protocol	[4,EAT3]
153	231	TIP Status Reporting	[JGH]
154	232	TIP Accounting	[JGH]
155	233	Internet Protocol (regular)	[33,JBP]
156-158	234-236	Internet Protocol (experimental)	[33,JBP]
159-191	237-277	Measurements	[9,VGC]
192-195	300-303	Unassigned	[JBP]
196-255	304-377	Experimental Protocols	[JBP]
224-255	340-377	NVP	[12,17,DC]
248-255	370-377	Network Maintenance	[JGH]

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