

IANA IPv4 Address Space Registry

Last Updated

2014-10-14

Registration Procedure(s)

Allocations to RIRs are made in line with the Global Policy published at [\[http://www.icann.org/en/resources/policy/global-addressing\]](http://www.icann.org/en/resources/policy/global-addressing). All other assignments require IETF Review.

Description

The allocation of Internet Protocol version 4 (IPv4) address space to various registries is listed here. Originally, all the IPv4 address spaces was managed directly by the IANA. Later parts of the address space were allocated to various other registries to manage for particular purposes or regional areas of the world. RFC 1466 [\[RFC1466\]](#) documents most of these allocations.

Reference

[\[RFC7249\]](#)

Available Formats

[CSV](#) [XML](#) [HTML](#) [Plain text](#)

Prefix	Designation	Date	WHOIS	RDAP	Status [1]	Note [2]
000/8	IANA - Local Identification	1981-09			RESERVED	[2]
001/8	APNIC	2010-01	whois.apnic.net		ALLOCATED	
002/8	RIPE NCC	2009-09	whois.ripe.net		ALLOCATED	
003/8	General Electric Company	1994-05	whois.arin.net		LEGACY	
004/8	Level 3 Communications, Inc.	1992-12	whois.arin.net		LEGACY	
005/8	RIPE NCC	2010-11	whois.ripe.net		ALLOCATED	
006/8	Army Information Systems Center	1994-02	whois.arin.net		LEGACY	
007/8	Administered by ARIN	1995-04	whois.arin.net		LEGACY	
008/8	Level 3 Communications, Inc.	1992-12	whois.arin.net		LEGACY	
009/8	IBM	1992-08	whois.arin.net		LEGACY	
010/8	IANA - Private Use	1995-06			RESERVED	[3]
011/8	DoD Intel Information Systems	1993-05	whois.arin.net		LEGACY	
012/8	AT&T Bell Laboratories	1995-06	whois.arin.net		LEGACY	
013/8	Xerox Corporation	1991-09	whois.arin.net		LEGACY	
014/8	APNIC	2010-04	whois.apnic.net		ALLOCATED	[4]
015/8	Hewlett-Packard Company	1994-07	whois.arin.net		LEGACY	
016/8	Digital Equipment Corporation	1994-11	whois.arin.net		LEGACY	
017/8	Apple Computer Inc.	1992-07	whois.arin.net		LEGACY	
018/8	MIT	1994-01	whois.arin.net		LEGACY	
019/8	Ford Motor Company	1995-05	whois.arin.net		LEGACY	
020/8	Computer Sciences Corporation	1994-10	whois.arin.net		LEGACY	
021/8	DDN-RVN	1991-07	whois.arin.net		LEGACY	
022/8	Defense Information Systems Agency	1993-05	whois.arin.net		LEGACY	
023/8	ARIN	2010-11	whois.arin.net		ALLOCATED	
024/8	ARIN	2001-05	whois.arin.net		ALLOCATED	
025/8	UK Ministry of Defence	1995-01	whois.ripe.net		LEGACY	
026/8	Defense Information Systems Agency	1995-05	whois.arin.net		LEGACY	
027/8	APNIC	2010-01	whois.apnic.net		ALLOCATED	
028/8	DSI-North	1992-07	whois.arin.net		LEGACY	
029/8	Defense Information Systems Agency	1991-07	whois.arin.net		LEGACY	
030/8	Defense Information Systems Agency	1991-07	whois.arin.net		LEGACY	
031/8	RIPE NCC	2010-05	whois.ripe.net		ALLOCATED	
032/8	AT&T Global Network Services	1994-06	whois.arin.net		LEGACY	
033/8	DLA Systems Automation	1991-	whois.arin.net		LEGACY	

034/8	Center Halliburton Company	01 1993-03	whois.arin.net	LEGACY
035/8	Administered by ARIN	1994-04	whois.arin.net	LEGACY
036/8	APNIC	2010-10	whois.apnic.net	ALLOCATED
037/8	RIPE NCC	2010-11	whois.ripe.net	ALLOCATED
038/8	PSINet, Inc.	1994-09	whois.arin.net	LEGACY
039/8	APNIC	2011-01	whois.apnic.net	ALLOCATED
040/8	Administered by ARIN	1994-06	whois.arin.net	LEGACY
041/8	AFRINIC	2005-04	whois.afrinic.net	ALLOCATED
042/8	APNIC	2010-10	whois.apnic.net	ALLOCATED
043/8	Administered by APNIC	1991-01	whois.apnic.net	LEGACY
044/8	Amateur Radio Digital Communications	1992-07	whois.arin.net	LEGACY
045/8	Administered by ARIN	1995-01	whois.arin.net	LEGACY
046/8	RIPE NCC	2009-09	whois.ripe.net	ALLOCATED
047/8	Administered by ARIN	1991-01	whois.arin.net	LEGACY
048/8	Prudential Securities Inc.	1995-05	whois.arin.net	LEGACY
049/8	APNIC	2010-08	whois.apnic.net	ALLOCATED
050/8	ARIN	2010-02	whois.arin.net	ALLOCATED
051/8	UK Government Department for Work and Pensions	1994-08	whois.ripe.net	LEGACY
052/8	E.I. duPont de Nemours and Co., Inc.	1991-12	whois.arin.net	LEGACY
053/8	Daimler AG	1993-10	whois.ripe.net	LEGACY
054/8	Administered by ARIN	1992-03	whois.arin.net	LEGACY
055/8	DoD Network Information Center	1995-04	whois.arin.net	LEGACY
056/8	US Postal Service	1994-06	whois.arin.net	LEGACY
057/8	Societe Internationale de Telecommunications Aeronautiques S.C.R.L.	1995-05	whois.ripe.net	LEGACY
058/8	APNIC	2004-04	whois.apnic.net	ALLOCATED
059/8	APNIC	2004-04	whois.apnic.net	ALLOCATED
060/8	APNIC	2003-04	whois.apnic.net	ALLOCATED
061/8	APNIC	1997-04	whois.apnic.net	ALLOCATED
062/8	RIPE NCC	1997-04	whois.ripe.net	ALLOCATED
063/8	ARIN	1997-04	whois.arin.net	ALLOCATED
064/8	ARIN	1999-07	whois.arin.net	ALLOCATED
065/8	ARIN	2000-07	whois.arin.net	ALLOCATED
066/8	ARIN	2000-07	whois.arin.net	ALLOCATED
067/8	ARIN	2001-05	whois.arin.net	ALLOCATED
068/8	ARIN	2001-06	whois.arin.net	ALLOCATED
069/8	ARIN	2002-08	whois.arin.net	ALLOCATED
070/8	ARIN	2004-01	whois.arin.net	ALLOCATED
071/8	ARIN	2004-08	whois.arin.net	ALLOCATED
072/8	ARIN	2004-08	whois.arin.net	ALLOCATED
073/8	ARIN	2005-03	whois.arin.net	ALLOCATED
074/8	ARIN	2005-06	whois.arin.net	ALLOCATED
075/8	ARIN	2005-06	whois.arin.net	ALLOCATED
076/8	ARIN	2005-06	whois.arin.net	ALLOCATED
077/8	RIPE NCC	2006-	whois.ripe.net	ALLOCATED

		08		
078/8	RIPE NCC	2006-08	whois.ripe.net	ALLOCATED
079/8	RIPE NCC	2006-08	whois.ripe.net	ALLOCATED
080/8	RIPE NCC	2001-04	whois.ripe.net	ALLOCATED
081/8	RIPE NCC	2001-04	whois.ripe.net	ALLOCATED
082/8	RIPE NCC	2002-11	whois.ripe.net	ALLOCATED
083/8	RIPE NCC	2003-11	whois.ripe.net	ALLOCATED
084/8	RIPE NCC	2003-11	whois.ripe.net	ALLOCATED
085/8	RIPE NCC	2004-04	whois.ripe.net	ALLOCATED
086/8	RIPE NCC	2004-04	whois.ripe.net	ALLOCATED
087/8	RIPE NCC	2004-04	whois.ripe.net	ALLOCATED
088/8	RIPE NCC	2004-04	whois.ripe.net	ALLOCATED
089/8	RIPE NCC	2005-06	whois.ripe.net	ALLOCATED
090/8	RIPE NCC	2005-06	whois.ripe.net	ALLOCATED
091/8	RIPE NCC	2005-06	whois.ripe.net	ALLOCATED
092/8	RIPE NCC	2007-03	whois.ripe.net	ALLOCATED
093/8	RIPE NCC	2007-03	whois.ripe.net	ALLOCATED
094/8	RIPE NCC	2007-07	whois.ripe.net	ALLOCATED
095/8	RIPE NCC	2007-07	whois.ripe.net	ALLOCATED
096/8	ARIN	2006-10	whois.arin.net	ALLOCATED
097/8	ARIN	2006-10	whois.arin.net	ALLOCATED
098/8	ARIN	2006-10	whois.arin.net	ALLOCATED
099/8	ARIN	2006-10	whois.arin.net	ALLOCATED
100/8	ARIN	2010-11	whois.arin.net	ALLOCATED [5]
101/8	APNIC	2010-08	whois.apnic.net	ALLOCATED
102/8	AFRINIC	2011-02	whois.afrinic.net	ALLOCATED
103/8	APNIC	2011-02	whois.apnic.net	ALLOCATED
104/8	ARIN	2011-02	whois.arin.net	ALLOCATED
105/8	AFRINIC	2010-11	whois.afrinic.net	ALLOCATED
106/8	APNIC	2011-01	whois.apnic.net	ALLOCATED
107/8	ARIN	2010-02	whois.arin.net	ALLOCATED
108/8	ARIN	2008-12	whois.arin.net	ALLOCATED
109/8	RIPE NCC	2009-01	whois.ripe.net	ALLOCATED
110/8	APNIC	2008-11	whois.apnic.net	ALLOCATED
111/8	APNIC	2008-11	whois.apnic.net	ALLOCATED
112/8	APNIC	2008-05	whois.apnic.net	ALLOCATED
113/8	APNIC	2008-05	whois.apnic.net	ALLOCATED
114/8	APNIC	2007-10	whois.apnic.net	ALLOCATED
115/8	APNIC	2007-10	whois.apnic.net	ALLOCATED
116/8	APNIC	2007-01	whois.apnic.net	ALLOCATED
117/8	APNIC	2007-01	whois.apnic.net	ALLOCATED
118/8	APNIC	2007-01	whois.apnic.net	ALLOCATED
119/8	APNIC	2007-01	whois.apnic.net	ALLOCATED
120/8	APNIC	2007-01	whois.apnic.net	ALLOCATED
121/8	APNIC	2006-01	whois.apnic.net	ALLOCATED

122/8	APNIC	2006-01	whois.apnic.net	ALLOCATED	
123/8	APNIC	2006-01	whois.apnic.net	ALLOCATED	
124/8	APNIC	2005-01	whois.apnic.net	ALLOCATED	
125/8	APNIC	2005-01	whois.apnic.net	ALLOCATED	
126/8	APNIC	2005-01	whois.apnic.net	ALLOCATED	
127/8	IANA - Loopback	1981-09		RESERVED	[6]
128/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
129/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
130/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
131/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
132/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
133/8	Administered by APNIC	1997-03	whois.apnic.net	LEGACY	
134/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
135/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
136/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
137/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
138/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
139/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
140/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
141/8	Administered by RIPE NCC	1993-05	whois.ripe.net	LEGACY	
142/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
143/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
144/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
145/8	Administered by RIPE NCC	1993-05	whois.ripe.net	LEGACY	
146/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
147/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
148/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
149/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
150/8	Administered by APNIC	1993-05	whois.apnic.net	LEGACY	
151/8	Administered by RIPE NCC	1993-05	whois.ripe.net	LEGACY	
152/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
153/8	Administered by APNIC	1993-05	whois.apnic.net	LEGACY	
154/8	Administered by AFRINIC	1993-05	whois.afrinic.net	LEGACY	
155/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
156/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
157/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
158/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
159/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
160/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
161/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
162/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
163/8	Administered by APNIC	1993-05	whois.apnic.net	LEGACY	
164/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
165/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
166/8	Administered by ARIN	1993-	whois.arin.net	LEGACY	

167/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
168/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
169/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	[7]
170/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	
171/8	Administered by APNIC	1993-05	whois.apnic.net	LEGACY	
172/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	[8]
173/8	ARIN	2008-02	whois.arin.net	ALLOCATED	
174/8	ARIN	2008-02	whois.arin.net	ALLOCATED	
175/8	APNIC	2009-08	whois.apnic.net	ALLOCATED	
176/8	RIPE NCC	2010-05	whois.ripe.net	ALLOCATED	
177/8	LACNIC	2010-06	whois.lacnic.net	ALLOCATED	
178/8	RIPE NCC	2009-01	whois.ripe.net	ALLOCATED	
179/8	LACNIC	2011-02	whois.lacnic.net	ALLOCATED	
180/8	APNIC	2009-04	whois.apnic.net	ALLOCATED	
181/8	LACNIC	2010-06	whois.lacnic.net	ALLOCATED	
182/8	APNIC	2009-08	whois.apnic.net	ALLOCATED	
183/8	APNIC	2009-04	whois.apnic.net	ALLOCATED	
184/8	ARIN	2008-12	whois.arin.net	ALLOCATED	
185/8	RIPE NCC	2011-02	whois.ripe.net	ALLOCATED	
186/8	LACNIC	2007-09	whois.lacnic.net	ALLOCATED	
187/8	LACNIC	2007-09	whois.lacnic.net	ALLOCATED	
188/8	Administered by RIPE NCC	1993-05	whois.ripe.net	LEGACY	
189/8	LACNIC	1995-06	whois.lacnic.net	ALLOCATED	
190/8	LACNIC	1995-06	whois.lacnic.net	ALLOCATED	
191/8	Administered by LACNIC	1993-05	whois.lacnic.net	LEGACY	
192/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	[9] [10]
193/8	RIPE NCC	1993-05	whois.ripe.net	ALLOCATED	
194/8	RIPE NCC	1993-05	whois.ripe.net	ALLOCATED	
195/8	RIPE NCC	1993-05	whois.ripe.net	ALLOCATED	
196/8	Administered by AFRINIC	1993-05	whois.afrinic.net	LEGACY	
197/8	AFRINIC	2008-10	whois.afrinic.net	ALLOCATED	
198/8	Administered by ARIN	1993-05	whois.arin.net	LEGACY	[11]
199/8	ARIN	1993-05	whois.arin.net	ALLOCATED	
200/8	LACNIC	2002-11	whois.lacnic.net	ALLOCATED	
201/8	LACNIC	2003-04	whois.lacnic.net	ALLOCATED	
202/8	APNIC	1993-05	whois.apnic.net	ALLOCATED	
203/8	APNIC	1993-05	whois.apnic.net	ALLOCATED	[12]
204/8	ARIN	1994-03	whois.arin.net	ALLOCATED	
205/8	ARIN	1994-03	whois.arin.net	ALLOCATED	
206/8	ARIN	1995-04	whois.arin.net	ALLOCATED	
207/8	ARIN	1995-11	whois.arin.net	ALLOCATED	
208/8	ARIN	1996-04	whois.arin.net	ALLOCATED	
209/8	ARIN	1996-06	whois.arin.net	ALLOCATED	
210/8	APNIC	1996-06	whois.apnic.net	ALLOCATED	

211/8	APNIC	1996-06	whois.apnic.net	ALLOCATED	
212/8	RIPE NCC	1997-10	whois.ripe.net	ALLOCATED	
213/8	RIPE NCC	1993-10	whois.ripe.net	ALLOCATED	
214/8	US-DOD	1998-03	whois.arin.net	LEGACY	
215/8	US-DOD	1998-03	whois.arin.net	LEGACY	
216/8	ARIN	1998-04	whois.arin.net	ALLOCATED	
217/8	RIPE NCC	2000-06	whois.ripe.net	ALLOCATED	
218/8	APNIC	2000-12	whois.apnic.net	ALLOCATED	
219/8	APNIC	2001-09	whois.apnic.net	ALLOCATED	
220/8	APNIC	2001-12	whois.apnic.net	ALLOCATED	
221/8	APNIC	2002-07	whois.apnic.net	ALLOCATED	
222/8	APNIC	2003-02	whois.apnic.net	ALLOCATED	
223/8	APNIC	2010-04	whois.apnic.net	ALLOCATED	
224/8	Multicast	1981-09		RESERVED	[13]
225/8	Multicast	1981-09		RESERVED	[13]
226/8	Multicast	1981-09		RESERVED	[13]
227/8	Multicast	1981-09		RESERVED	[13]
228/8	Multicast	1981-09		RESERVED	[13]
229/8	Multicast	1981-09		RESERVED	[13]
230/8	Multicast	1981-09		RESERVED	[13]
231/8	Multicast	1981-09		RESERVED	[13]
232/8	Multicast	1981-09		RESERVED	[13]
233/8	Multicast	1981-09		RESERVED	[13]
234/8	Multicast	1981-09		RESERVED	[13] [14]
235/8	Multicast	1981-09		RESERVED	[13]
236/8	Multicast	1981-09		RESERVED	[13]
237/8	Multicast	1981-09		RESERVED	[13]
238/8	Multicast	1981-09		RESERVED	[13]
239/8	Multicast	1981-09		RESERVED	[13] [15]
240/8	Future use	1981-09		RESERVED	[16]
241/8	Future use	1981-09		RESERVED	[16]
242/8	Future use	1981-09		RESERVED	[16]
243/8	Future use	1981-09		RESERVED	[16]
244/8	Future use	1981-09		RESERVED	[16]
245/8	Future use	1981-09		RESERVED	[16]
246/8	Future use	1981-09		RESERVED	[16]
247/8	Future use	1981-09		RESERVED	[16]
248/8	Future use	1981-09		RESERVED	[16]
249/8	Future use	1981-09		RESERVED	[16]
250/8	Future use	1981-09		RESERVED	[16]
251/8	Future use	1981-09		RESERVED	[16]
252/8	Future use	1981-09		RESERVED	[16]
253/8	Future use	1981-09		RESERVED	[16]
254/8	Future use	1981-09		RESERVED	[16]
255/8	Future use	1981-		RESERVED	[16] [17]

Footnotes

- [1] Indicates the status of address blocks as follows:
RESERVED: designated by the IETF for specific non-global-unicast purposes as noted.
LEGACY: allocated by the central Internet Registry (IR) prior to the Regional Internet Registries (RIRs). This address space is now administered by individual RIRs as noted, including maintenance of WHOIS Directory and reverse DNS records. Assignments from these blocks are distributed globally on a regional basis.
ALLOCATED: delegated entirely to specific RIR as indicated.
UNALLOCATED: not yet allocated or reserved.
- [2] 0.0.0.0/8 reserved for self-identification [RFC1122], section 3.2.1.3.
Reserved by protocol. For authoritative registration, see [IANA registry iana-ipv4-special-registry].
- [3] Reserved for Private-Use Networks [RFC1918].
Complete registration details for 10.0.0.0/8 are found in [IANA registry iana-ipv4-special-registry].
- [4] This was reserved for Public Data Networks [RFC1356]. See [IANA registry public-data-network-numbers].
It was recovered in February 2008 and was subsequently allocated to APNIC in April 2010.
- [5] 100.64.0.0/10 reserved for Shared Address Space [RFC6598].
Complete registration details for 100.64.0.0/10 are found in [IANA registry iana-ipv4-special-registry].
- [6] 127.0.0.0/8 reserved for Loopback [RFC1122], section 3.2.1.3.
Reserved by protocol. For authoritative registration, see [IANA registry iana-ipv4-special-registry].
- [7] 169.254.0.0/16 reserved for Link Local [RFC3927].
Reserved by protocol. For authoritative registration, see [IANA registry iana-ipv4-special-registry].
- [8] 172.16.0.0/12 reserved for Private-Use Networks [RFC1918].
Complete registration details are found in [IANA registry iana-ipv4-special-registry].
- [9] 192.0.2.0/24 reserved for TEST-NET-1 [RFC5737].
Complete registration details for 192.0.2.0/24 are found in [IANA registry iana-ipv4-special-registry].
192.88.99.0/24 reserved for 6to4 Relay Anycast [RFC3068]
Complete registration details for 192.88.99.0/24 are found in [IANA registry iana-ipv4-special-registry].
192.88.99.2/32 reserved for 6a44 Relay Anycast [RFC6751] (possibly collocated with 6to4 Relay at 192.88.99.1/32 - see [RFC3068] section 2.4)
192.168.0.0/16 reserved for Private-Use Networks [RFC1918].
Complete registration details for 192.168.0.0/16 are found in [IANA registry iana-ipv4-special-registry].
- [10] 192.0.0.0/24 reserved for IANA IPv4 Special Purpose Address Registry [RFC5736].
Complete registration details for 192.0.0.0/24 are found in [IANA registry iana-ipv4-special-registry].
- [11] 198.18.0.0/15 reserved for Network Interconnect Device Benchmark Testing [RFC2544].
Complete registration details for 198.18.0.0/15 are found in [IANA registry iana-ipv4-special-registry].
198.51.100.0/24 reserved for TEST-NET-2 [RFC5737].
Complete registration details for 198.51.100.0/24 are found in [IANA registry iana-ipv4-special-registry].
- [12] 203.0.113.0/24 reserved for TEST-NET-3 [RFC5737].
Complete registration details for 203.0.113.0/24 are found in [IANA registry iana-ipv4-special-registry].
- [13] Multicast (formerly "Class D") [RFC5771] registered in [IANA registry multicast-addresses]
- [14] Unicast-Prefix-Based IPv4 Multicast Addresses [RFC6034]
- [15] Administratively Scoped IP Multicast [RFC2365]
- [16] Reserved for future use (formerly "Class E") [RFC1112].
Reserved by protocol. For authoritative registration, see [IANA registry iana-ipv4-special-registry].
- [17] 255.255.255.255 is reserved for "limited broadcast" destination address [RFC919] and [RFC922].
Complete registration details for 255.255.255.255/32 are found in [IANA registry iana-ipv4-special-registry].