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List of TCP and UDP port numbers

This is a **list of TCP and UDP port numbers** used by protocols of the application layer of the Internet protocol suite for the establishment of host-to-host connectivity.

The Transmission Control Protocol (TCP) and the User Datagram Protocol (UDP) needed only one port for full-duplex, bidirectional traffic. The Stream Control Transmission Protocol (SCTP) and the Datagram Congestion Control Protocol (DCCP) also use port numbers. They usually use port numbers that match the services of the corresponding TCP or UDP implementation, if they exist.

The Internet Assigned Numbers Authority (IANA) is responsible for maintaining the official assignments of port numbers for specific uses.[1] However, many unofficial uses of both well-known and registered port numbers occur in practice. Similarly many of the official assignments refer to protocols that were never or are no longer in common use. This article lists port numbers and their associated protocols that have experienced significant uptake.

Contents

Table legend

- ☐ Official: Port is registered with IANA for the application.[1]
- ☐ Unofficial: Port is not registered with IANA for the application.
- ☐ Multiple use: Multiple applications are known to use this port.

Legend of TCP and UDP protocol table cells for port numbers

Cell	Description
Yes	Described protocol *is* standardized, specified or widely used for the port number.
No	Described protocol *is not* standardized, specified or widely used for the port number.
Assigned	Port number is assigned by IANA for protocol use,[1] but may not be standardized, specified or widely used for such.
Yes/No	Port number may use the protocol conditionally only, or alternate its use (fallback if the other protocol fails).
Port 22	Port number doesn't use the protocol, but may use the protocol on another specified port (e.g., port 22).
N/A	Not applicable or currently unassigned port number. For unassigned ports, the port number may be available for assignment upon requesting assignment by IANA.[2]
Reserved	Protocol is reserved by IANA[1] for future use or special purposes.[2][3] See "N/A" above.
?	Protocol use by port number is unknown or unverified.

Well-known ports

The port numbers in the range from 0 to 1023 are the *well-known ports* or *system ports*.[2] They are used by system processes that provide widely used types of network services. On Unix-like operating systems, a process must execute with superuser privileges to be able to bind a network socket to an IP address using one of the well-known ports.[4]

Well-known ports

Port	TCP	UDP	IANA status[1]	Description
0	Reserved	Reserved	Official	
	N/A	N/A	Unofficial	In programming APIs (not in communication between hosts), requests a system-allocated (dynamic) port[5]
1	Yes	Assigned	Official	TCP Port Service Multiplexer (TCPMUX). Historic. Both TCP and UDP have been assigned to TCPMUX by IANA,[1] but by design only TCP is specified.[6]
5	Assigned	Assigned	Official	Remote job entry[7]
7	Yes	Yes	Official	Echo Protocol[8][9]
9	Yes, and SCTP[10]	Yes	Official	Discard Protocol[11]
	?	Yes	Unofficial	Wake-on-LAN[12]
11	Yes	Yes	Official	Active Users (systat service)[13][14]
13	Yes	Yes	Official	Daytime Protocol[15]
15	Yes	No	Unofficial	Previously netstat service[1][13]
17	Yes	Yes	Official	Quote of the Day (QOTD)[16]
18	Yes	Yes	Official	Message Send Protocol[17][18]
19	Yes	Yes	Official	Character Generator Protocol (CHARGEN)[19]
20	Yes, and SCTP[10]	Assigned	Official	File Transfer Protocol (FTP) data transfer[9]
21	Yes, and SCTP[10]	Assigned	Official	File Transfer Protocol (FTP) control (command)[9][10][20][21]
22	Yes, and SCTP[10]	Assigned	Official	Secure Shell (SSH),[9] secure logins, file transfers (scp, sftp) and port forwarding
23	Yes	Assigned	Official	Telnet protocol—unencrypted text communications[9][22]
25	Yes	Assigned	Official	Simple Mail Transfer Protocol (SMTP),[9][23] used for email routing between mail servers
37	Yes	Yes	Official	Time Protocol[24]
38	Yes	Yes	Official	Route Access Protocol (RAP)[25]
39	Assigned	Yes	Official	Resource Location Protocol (RLP)[26]—used for determining the location of higher level services from hosts on a network
42	Assigned	Yes	Official	Host Name Server Protocol[27]
43	Yes	Assigned	Official	WHOIS protocol[28][29][30]
47	Reserved	Reserved	Official	
49	Yes	Yes	Official	TACACS+ Login Host protocol[31]
50	Assigned	Yes	Official	Remote Mail Checking Protocol[32]
51	Reserved	Reserved	Official	

Port	TCP	UDP	IANA status[1]	Description
	TCP	UDP	Unofficial	Previously Interface Message Processor logical address management
52	TCP	UDP	Official	Xerox Network Systems (XNS) Time Protocol
53	TCP	UDP	Official	Domain Name System (DNS)[9]
54	TCP	UDP	Official	Xerox Network Systems (XNS) clearinghouse
56	TCP	UDP	Official	Xerox Network Systems (XNS) authentication
57	TCP	UDP	Official	Any private terminal access
58	TCP	UDP	Official	Xerox Network Systems (XNS) Mail
61	Reserved	Reserved	Official	
67	Assigned	Yes	Official	Bootstrap Protocol (BOOTP) server;[9] also used by Dynamic Host Configuration Protocol (DHCP)
68	Assigned	Yes	Official	Bootstrap Protocol (BOOTP) client;[9] also used by Dynamic Host Configuration Protocol (DHCP)
69	Assigned	Yes	Official	Trivial File Transfer Protocol (TFTP)[9][33][34][35]
70	TCP	UDP	Official	Gopher protocol[36]
71–74	TCP	UDP	Official	NETRJS protocol[37][38][39]
75	TCP	UDP	Official	Any private dial out service
77	TCP	UDP	Official	Any private Remote job entry
79	Yes	Assigned	Official	Finger protocol[9][40][41]
80	Yes, and SCTP[10]	Assigned	Official	Hypertext Transfer Protocol (HTTP)[9][42][43][44]
		UDP	Unofficial	QUIC (from Chromium) for HTTP
81	TCP		Unofficial	TorPark onion routing
82		UDP	Unofficial	TorPark control
87	Yes	Yes	Official	Any private terminal link
88	Yes	Assigned	Official	Kerberos[9][45][46] authentication system
90	TCP	UDP	Official	dnsix (DoD Network Security for Information Exchange) Securit [*sic?*] Attribute Token Map
	TCP	UDP	Unofficial	PointCast (dotcom)[1]
99	TCP		Unofficial	WIP message protocol
101	TCP	UDP	Official	NIC host name
102	TCP	UDP	Official	ISO Transport Service Access Point (TSAP) Class 0 protocol;[47][48]
104	TCP	UDP	Official	Digital Imaging and Communications in Medicine (DICOM; also port 11112)
105	TCP	UDP	Official	CCSO Nameserver[49]
107	TCP	UDP	Official	Remote User Telnet Service (RTelnet)[50]
108	TCP	UDP	Official	IBM Systems Network Architecture (SNA) gateway access server
109	TCP	UDP	Official	Post Office Protocol, version 2 (POP2)[51]

Port	TCP	UDP	IANA status[1]	Description
110	Yes	Assigned	Official	Post Office Protocol, version 3 (POP3)[9][52][53]
111	TCP	UDP	Official	Open Network Computing Remote Procedure Call (**ONC RPC**, sometimes referred to as **Sun RPC**)
113	Yes	No	Official	Ident, authentication service/identification protocol,[9][54] used by IRC servers to identify users
	Yes	Assigned	Official	Authentication Service (auth), the predecessor to *identification protocol*. Used to determine a user's identity of a particular TCP connection.[55]
115	Yes	Assigned	Official	Simple File Transfer Protocol[9][56]
117	TCP	UDP	Official	UUCP Mapping Project (path service)
118	TCP	UDP	Official	Structured Query Language (SQL) Services
119	Yes	Assigned	Official	Network News Transfer Protocol (NNTP),[9] retrieval of newsgroup messages[57][58]
123	Assigned	Yes	Official	Network Time Protocol (NTP), used for time synchronization[9]
126	TCP	UDP	Official	Formerly Unisys Unitary Login, renamed by Unisys to NXEdit. Used by Unisys Programmer's Workbench for Clearpath MCP, an IDE for Unisys MCP software development
135	TCP	UDP	Official	DCE endpoint resolution
	TCP	UDP	Official	Microsoft EPMAP (End Point Mapper), also known as DCE/RPC Locator service,[59] used to remotely manage services including DHCP server, DNS server and WINS. Also used by DCOM
137	Yes	Yes	Official	NetBIOS Name Service, used for name registration and resolution[60][61]
138	Assigned	Yes	Official	NetBIOS Datagram Service[9][60][61]
139	Yes	Assigned	Official	NetBIOS Session Service[60][61]
143	Yes	Assigned	Official	Internet Message Access Protocol (IMAP),[9] management of electronic mail messages on a server[62]
152	TCP	UDP	Official	Background File Transfer Program (BFTP)[63]
153	TCP	UDP	Official	Simple Gateway Monitoring Protocol (SGMP), a protocol for remote inspection and alteration of gateway management information[64]
156	TCP	UDP	Official	Structured Query Language (SQL) Service
158	TCP	UDP	Official	Distributed Mail System Protocol (**DMSP**, sometimes referred to as **Pcmail**)[65]
161	Assigned	Yes	Official	Simple Network Management Protocol (SNMP)[66][9]
162	TCP	UDP	Official	Simple Network Management Protocol Trap (SNMPTRAP)[66][67]
170	TCP	UDP	Official	Print server
177	TCP	UDP	Official	X Display Manager Control Protocol (XDMCP), used for remote logins to an X Display Manager server[68]
179	Yes, and SCTP[10]	Assigned	Official	Border Gateway Protocol (BGP),[69] used to exchange routing and reachability information among autonomous systems (AS) on the Internet

Port	TCP	UDP	IANA status[1]	Description
194	TCP	UDP	Official	Internet Relay Chat (IRC)[70]
199	TCP	UDP	Official	SNMP multiplexing protocol (SMUX)[71][72]
201	TCP	UDP	Official	AppleTalk Routing Maintenance
209	Yes	Assigned	Official	Quick Mail Transfer Protocol[73]
210	TCP	UDP	Official	ANSI Z39.50
213	TCP	UDP	Official	Internetwork Packet Exchange (IPX)
218	TCP	UDP	Official	Message posting protocol (MPP)
220	TCP	UDP	Official	Internet Message Access Protocol (IMAP), version 3
225–241	Reserved	Reserved	Official	
249–255	Reserved	Reserved	Official	
259	TCP	UDP	Official	Efficient Short Remote Operations (ESRO)
262	TCP	UDP	Official	Arcisdms
264	TCP	UDP	Official	Border Gateway Multicast Protocol (BGMP)
280	TCP	UDP	Official	http-mgmt
300	TCP		Unofficial	ThinLinc Web Access
308	TCP		Official	Novastor Online Backup
311	Yes	Assigned	Official	Mac OS X Server Admin[9] (officially AppleShare IP Web administration[1])
318	TCP	UDP	Official	PKIX Time Stamp Protocol (TSP)
319		UDP	Official	Precision Time Protocol (PTP) event messages
320		UDP	Official	Precision Time Protocol (PTP) general messages
350	TCP	UDP	Official	Mapping of Airline Traffic over Internet Protocol (MATIP) type A
351	TCP	UDP	Official	MATIP type B
356	TCP	UDP	Official	cloanto-net-1 (used by Cloanto Amiga Explorer and VMs)
366	TCP	UDP	Official	On-Demand Mail Relay (ODMR)
369	TCP	UDP	Official	Rpc2portmap
370	TCP	UDP	Official	codaauth2, Coda authentication server
		UDP	Official	securecast1, outgoing packets to NAI's SecureCast servers[74]As of 2000
371	TCP	UDP	Official	ClearCase albd
383	TCP	UDP	Official	HP data alarm manager
384	TCP	UDP	Official	A Remote Network Server System
387	TCP	UDP	Official	AURP (AppleTalk Update-based Routing Protocol)[75]
389	Yes	Assigned	Official	Lightweight Directory Access Protocol (LDAP)[9]
399	TCP	UDP	Official	Digital Equipment Corporation DECnet (Phase V+) over TCP/IP

Port	TCP	UDP	IANA status[1]	Description
401	TCP	UDP	Official	Uninterruptible power supply (UPS)
427	Yes	Yes	Official	Service Location Protocol (SLP)[9]
433	TCP	UDP	Official	NNSP, part of Network News Transfer Protocol
434	TCP	UDP	Official	Mobile IP Agent (RFC 5944)
443	Yes, and SCTP[10]	Assigned	Official	Hypertext Transfer Protocol over TLS/SSL (HTTPS)[9]
		UDP	Unofficial	QUIC (from Chromium) for HTTPS
444	TCP	UDP	Official	Simple Network Paging Protocol (SNPP), RFC 1568
	TCP		Unofficial	Well known Slither.io port
445	TCP	UDP	Official	Microsoft-DS Active Directory,[76] Windows shares
	Yes	Assigned	Official	Microsoft-DS SMB[9] file sharing
464	TCP	UDP	Official	Kerberos Change/Set password
465	Yes	No	Official	URL Rendezvous Directory for SSM (Cisco protocol)
	Yes	No	Official	Authenticated SMTP[9] over TLS/SSL (SMTPS)[77]
475	TCP	UDP	Official	tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
491	TCP		Unofficial	GO-Global remote access and application publishing software
497	TCP	UDP	Official	Retrospect
500	Assigned	Yes	Official	Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)[9]
502	TCP	UDP	Official	Modbus Protocol
504	TCP	UDP	Official	Citadel, multiservice protocol for dedicated clients for the Citadel groupware system
510	TCP	UDP	Official	FirstClass Protocol (FCP), used by FirstClass client/server groupware system
512	TCP		Official	Rexec, Remote Process Execution
		UDP	Official	comsat, together with biff
513	TCP		Official	rlogin
		UDP	Official	Who[78]
514	TCP		Official	Remote Shell, used to execute non-interactive commands on a remote system (Remote Shell, rsh, remsh)
	No	Yes	Official	Syslog,[9] used for system logging
515	Yes	Assigned	Official	Line Printer Daemon (LPD),[9] print service
517		UDP	Official	Talk
518		UDP	Official	NTalk
520	TCP		Official	efs, extended file name server
		UDP	Official	Routing Information Protocol (RIP)
521		UDP	Official	Routing Information Protocol Next Generation (RIPng)

Port	TCP	UDP	IANA status[1]	Description
524	TCP	UDP	Official	NetWare Core Protocol (NCP) is used for a variety things such as access to primary NetWare server resources, Time Synchronization, etc.
525		UDP	Official	Timed, Timeserver
530	TCP	UDP	Official	Remote procedure call (RPC)
532	Yes	Assigned	Official	netnews[9]
533		UDP	Official	netwall, For Emergency Broadcasts
540	TCP		Official	Unix-to-Unix Copy Protocol (UUCP)
542	TCP	UDP	Official	commerce (Commerce Applications)
543	TCP		Official	klogin, Kerberos login
544	TCP		Official	kshell, Kerberos Remote shell
546	TCP	UDP	Official	DHCPv6 client
547	TCP	UDP	Official	DHCPv6 server
548	Yes	Assigned	Official	Apple Filing Protocol (AFP) over TCP[9]
550	TCP	UDP	Official	new-rwho, new-who[78]
554	Yes	Yes	Official	Real Time Streaming Protocol (RTSP)[9]
556	TCP		Official	Remotefs, RFS, rfs_server
560		UDP	Official	rmonitor, Remote Monitor
561		UDP	Official	monitor
563	TCP	UDP	Official	NNTP over TLS/SSL (NNTPS)
564	TCP		Unofficial	9P (Plan 9)
585	Port 993	?	Unofficial	Legacy use of Internet Message Access Protocol over TLS/SSL (IMAPS), now in use at port 993.[79]
587	Yes	Assigned	Official	email message submission[9][80] (SMTP)
591	TCP		Official	FileMaker 6.0 (and later) Web Sharing (HTTP Alternate, also see port 80)
593	TCP	UDP	Official	HTTP RPC Ep Map, Remote procedure call over Hypertext Transfer Protocol, often used by Distributed Component Object Model services and Microsoft Exchange Server
601	TCP		Official	Reliable Syslog Service — used for system logging
604	TCP		Official	TUNNEL profile,[81] a protocol for BEEP peers to form an application layer tunnel
623		UDP	Official	ASF Remote Management and Control Protocol (ASF-RMCP) & IPMI Remote Management Protocol
625	Yes	No	Unofficial	Open Directory Proxy (ODProxy)[9]
631	TCP	UDP	Official	Internet Printing Protocol (IPP)[9]
	TCP	UDP	Unofficial	Common Unix Printing System (CUPS) administration console (extension to IPP)
635	TCP	UDP	Official	RLZ DBase

Port	TCP	UDP	IANA status[1]	Description
636	Yes	Assigned	Official	Lightweight Directory Access Protocol over TLS/SSL (LDAPS)[9]
639	TCP	UDP	Official	MSDP, Multicast Source Discovery Protocol
641	TCP	UDP	Official	SupportSoft Nexus Remote Command (control/listening), a proxy gateway connecting remote control traffic
643	TCP	UDP	Official	SANity
646	TCP	UDP	Official	Label Distribution Protocol (LDP), a routing protocol used in MPLS networks
647	TCP		Official	DHCP Failover protocol[82]
648	TCP		Official	Registry Registrar Protocol (RRP)[83]
651	TCP	UDP	Official	IEEE-MMS
653	TCP	UDP	Official	SupportSoft Nexus Remote Command (data), a proxy gateway connecting remote control traffic
654	TCP		Official	Media Management System (MMS) Media Management Protocol (MMP)[84]
655	TCP	UDP	Official	Tinc VPN daemon
657	TCP	UDP	Official	IBM RMC (Remote monitoring and Control) protocol, used by System p5 AIX Integrated Virtualization Manager (IVM)[85] and Hardware Management Console to connect managed logical partitions (LPAR) to enable dynamic partition reconfiguration
660	Yes	Assigned	Official	Mac OS X Server administration,[1] version 10.4 and earlier[9]
666	TCP	UDP	Official	Doom, first online first-person shooter
	TCP		Unofficial	airserv-ng (http://www.aircrack-ng.org/doku.php?id=airserv-ng), aircrack-ng's server for remote-controlling wireless devices
674	TCP		Official	Application Configuration Access Protocol (ACAP)
688	TCP	UDP	Official	REALM-RUSD (ApplianceWare Server Appliance Management Protocol)
690	TCP	UDP	Official	Velneo Application Transfer Protocol (VATP)
691	TCP		Official	MS Exchange Routing
694	TCP	UDP	Official	Linux-HA high-availability heartbeat
695	TCP		Official	IEEE Media Management System over SSL (IEEE-MMS-SSL)[86]
698		UDP	Official	Optimized Link State Routing (OLSR)
700	TCP		Official	Extensible Provisioning Protocol (EPP), a protocol for communication between domain name registries and registrars (RFC 5734)
701	TCP		Official	Link Management Protocol (LMP),[87] a protocol that runs between a pair of nodes and is used to manage traffic engineering (TE) links
702	TCP		Official	IRIS[88][89] (Internet Registry Information Service) over BEEP (Blocks Extensible Exchange Protocol)[90] (RFC 3983)
706	TCP		Official	Secure Internet Live Conferencing (SILC)
711	TCP		Official	Cisco Tag Distribution Protocol[91][92][93]—being replaced by the MPLS Label Distribution Protocol[94]

Port	TCP	UDP	IANA status[1]	Description
712	TCP		Official	Topology Broadcast based on Reverse-Path Forwarding routing protocol (TBRPF; RFC 3684)
749	Yes	Yes	Official	Kerberos (protocol) administration[9]
750		UDP	Official	kerberos-iv, Kerberos version IV
751	TCP	UDP	Unofficial	kerberos_master, Kerberos authentication
752		UDP	Unofficial	passwd_server, Kerberos password (kpasswd) server
753	TCP	UDP	Official	Reverse Routing Header (RRH)[95]
		UDP	Unofficial	userreg_server, Kerberos userreg server
754	TCP	UDP	Official	tell send
	TCP		Unofficial	krb5_prop, Kerberos v5 slave propagation
760	TCP	UDP	Unofficial	krbupdate [kreg], Kerberos registration
782	TCP		Unofficial	Conserver serial-console management server
783	TCP		Unofficial	SpamAssassin spamd daemon
800	TCP	UDP	Official	mdbs-daemon
808	TCP		Unofficial	Microsoft Net.TCP Port Sharing Service
829	Yes	Assigned	Official	Certificate Management Protocol[96]
830	TCP	UDP	Official	NETCONF over SSH
831	TCP	UDP	Official	NETCONF over BEEP
832	TCP	UDP	Official	NETCONF for SOAP over HTTPS
833	TCP	UDP	Official	NETCONF for SOAP over BEEP
843	TCP		Unofficial	Adobe Flash[97]
847	TCP		Official	DHCP Failover protocol
848	TCP	UDP	Official	Group Domain Of Interpretation (GDOI) protocol
853	TCP	UDP	Official	DNS over TLS (RFC 7858)
860	TCP		Official	iSCSI (RFC 3720)
861	TCP	UDP	Official	OWAMP control (RFC 4656)
862	TCP	UDP	Official	TWAMP control (RFC 5357)
873	TCP		Official	rsync file synchronization protocol
888	TCP		Unofficial	cddbp, CD DataBase (CDDB) protocol (CDDBP)
	TCP		Unofficial	IBM Endpoint Manager Remote Control
897	TCP	UDP	Unofficial	Brocade SMI-S RPC
898	TCP	UDP	Unofficial	Brocade SMI-S RPC SSL
902	TCP	UDP	Unofficial	VMware ESXi[98][99]
903	TCP		Unofficial	VMware ESXi[98][99]
953	Yes	Reserved	Official	BIND remote name daemon control (RNDC)[100][101]

Port	TCP	UDP	IANA status[1]	Description
981	TCP		Unofficial	Remote HTTPS management for firewall devices running embedded Check Point VPN-1 software[102]
987	TCP		Unofficial	Microsoft Remote Web Workplace, a feature of Windows Small Business Server[103]
989	TCP	UDP	Official	FTPS Protocol (data), FTP over TLS/SSL
990	TCP	UDP	Official	FTPS Protocol (control), FTP over TLS/SSL
991	TCP	UDP	Official	Netnews Administration System (NAS)[104]
992	TCP	UDP	Official	Telnet protocol over TLS/SSL
993	Yes	Assigned	Official	Internet Message Access Protocol over TLS/SSL (IMAPS)[9]
994	Reserved	Reserved	Official	
	Maybe	Maybe	Unofficial	Internet Relay Chat over TLS/SSL (IRCS). Previously assigned, but not used in common practice.[70]
995	Yes	Yes	Official	Post Office Protocol 3 over TLS/SSL (POP3S)[9]
1010	TCP		Unofficial	ThinLinc web-based administration interface[105]
1011–1020	Reserved	Reserved	Official	
1023	Reserved	Reserved	Official	[1]
	Yes	Yes	Unofficial	z/OS Network File System (NFS) (potentially ports 991–1023)[106]

Registered ports

The range of port numbers from 1024 to 49151 are the registered ports. They are assigned by IANA for specific service upon application by a requesting entity.[1] On most systems, registered ports can be used without superuser privileges.

Registered ports

Port	TCP	UDP	Description	IANA status[1]
1024	Reserved	Reserved	Reserved	Official
1027	Reserved		Reserved	Official
1027		UDP	Native IPv6 behind IPv4-to-IPv4 NAT Customer Premises Equipment (6a44)[107]	Official
1028			Deprecated	Official
1029			Microsoft DCOM services	Official
1058	TCP	UDP	nim, IBM AIX Network Installation Manager (NIM)	Official
1059	TCP	UDP	nimreg, IBM AIX Network Installation Manager (NIM)	Official
1080	TCP	UDP	SOCKS proxy	Official
1085	TCP	UDP	WebObjects[9]	Official
1098	TCP	UDP	rmiactivation, Java remote method invocation (RMI) activation	Official
1099	TCP	Assigned	rmiregistry, Java remote method invocation (RMI) registry	Official
1109			Reserved – IANA	Official
1109	TCP		Kerberos Post Office Protocol (KPOP)	Unofficial
1119	TCP	UDP	Battle.net chat/game protocol, used by Blizzard's games[108]	Official
1167	TCP SCTP	UDP	Cisco IP SLA (Service Assurance Agent)	Official
1194	TCP	UDP	OpenVPN	Official
1198	TCP	UDP	The cajo project Free dynamic transparent distributed computing in Java	Official
1214	TCP	UDP	Kazaa	Official
1220	TCP	Assigned	QuickTime Streaming Server administration[9]	Official
1234	TCP	UDP	Infoseek search agent	Official
1234		UDP	VLC media player default port for UDP/RTP stream	Unofficial
1241	TCP	UDP	Nessus Security Scanner	Official
1270	TCP	UDP	Microsoft System Center Operations Manager (SCOM) (formerly Microsoft Operations Manager (MOM)) agent	Official
1293	TCP	UDP	Internet Protocol Security (IPSec)	Official
1311	TCP	UDP	Windows `RxMon.exe`	Official
1311	TCP		Dell OpenManage HTTPS[109]	Unofficial
1314	?	?	Festival Speech Synthesis System server[110]	Unofficial
1337	TCP		neo4j-shell	Unofficial
1337	TCP		WASTE Encrypted File Sharing Program	Unofficial
1341	TCP	UDP	Qubes (Manufacturing Execution System)	Official
1344	TCP	UDP	Internet Content Adaptation Protocol	Official
1352	TCP	UDP	IBM Lotus Notes/Domino (RPC) protocol	Official

Port	TCP	UDP	Description	IANA status[1]
1360	TCP	UDP	Mimer SQL	Official
1414	TCP	UDP	IBM WebSphere MQ (formerly known as MQSeries)	Official
1417	TCP	UDP	Timbuktu Service 1 Port	Official
1418	TCP	UDP	Timbuktu Service 2 Port	Official
1419	TCP	UDP	Timbuktu Service 3 Port	Official
1420	TCP	UDP	Timbuktu Service 4 Port	Official
1431	TCP		Reverse Gossip Transport Protocol (RGTP), used to access a General-purpose Reverse-Ordered Gossip Gathering System (GROGGS) bulletin board, such as that implemented on the Cambridge University's Phoenix system	Official
1433	TCP	UDP	Microsoft SQL Server database management system (MSSQL) server	Official
1434	TCP	UDP	Microsoft SQL Server database management system (MSSQL) monitor	Official
1492	TCP		*Sid Meier's CivNet*, a multiplayer remake of the original *Sid Meier's Civilization* game	Unofficial
1494	TCP	UDP	Citrix Independent Computing Architecture (ICA)[111]	Unofficial
1500	TCP		IBM Tivoli Storage Manager server[112]	Unofficial
1501	TCP		IBM Tivoli Storage Manager client scheduler[112]	Unofficial
1503	TCP	UDP	Windows Live Messenger (Whiteboard and Application Sharing)[113]	Unofficial
1512	TCP	UDP	Microsoft's Windows Internet Name Service (WINS)	Official
1513	TCP	UDP	Garena game client	Unofficial
1521	TCP	UDP	nCUBE License Manager	Official
1521	TCP		Oracle database default listener, in future releases[114] official port 2483 (TCP/IP) and 2484 (TCP/IP with SSL)	Unofficial
1524	TCP	UDP	ingreslock, ingres	Official
1527	TCP	UDP	Oracle Net Services, formerly known as SQL*Net[115]	Official
1527	TCP		Apache Derby Network Server[116]	Unofficial
1533	TCP	UDP	IBM Sametime Virtual Places Chat	Official
1547	TCP	UDP	Laplink	Official
1550	TCP		Gadu-Gadu (direct client-to-client)	Unofficial
1581	TCP	UDP	MIL STD 2045-47001 VMF	Official
1581	TCP		IBM Tivoli Storage Manager web client[112]	Unofficial
1582–1583	TCP		IBM Tivoli Storage Manager server web interface[112]	Unofficial
1583	?	?	Pervasive PSQL[117]	Unofficial
1589	TCP	UDP	Cisco VLAN Query Protocol (VQP)	Official
1604	TCP	UDP	DarkComet remote administration tool (RAT)	Unofficial
1626	TCP		iSketch[118]	Unofficial

Port	TCP	UDP	Description	IANA status[1]
1627	TCP		iSketch[118]	Unofficial
1628	TCP	UDP	LonTalk normal	Official
1629	TCP	UDP	LonTalk urgent	Official
1645		UDP	Early deployment of RADIUS before RFC standardization was done using UDP port number 1645. Enabled for compatibility reasons by default on Cisco and Juniper Networks RADIUS servers.[119] Official port is 1812. TCP port 1645 **MUST NOT** be used.[120]	Unofficial
1646		UDP	Old `radacct` port, RADIUS accounting protocol. Enabled for compatibility reasons by default on Cisco and Juniper Networks RADIUS servers.[119] Official port is 1813. TCP port 1646 **MUST NOT** be used.[120]	Unofficial
1666	TCP		Perforce[121]	Unofficial
1677	TCP	UDP	Novell GroupWise clients in client/server access mode	Official
1688	TCP		Microsoft Key Management Service (KMS) for Windows Activation[122]	Unofficial
1701	TCP	UDP	Layer 2 Forwarding Protocol (L2F)	Official
1701	Assigned	UDP	Layer 2 Tunneling Protocol (L2TP)[9]	Official
1707	TCP	UDP	Windward Studios games (vdmplay)	Official
1707		UDP	L2TP/IPsec, for establish an initial connection[123]	Unofficial
1716		UDP	America's Army, a massively multiplayer online game (MMO)[124]	Unofficial
1719	TCP	UDP	H.323 registration and alternate communication	Official
1720	TCP	UDP	H.323 call signaling	Official
1723	TCP	Assigned	Point-to-Point Tunneling Protocol (PPTP)[9]	Official
1755	TCP	UDP	Microsoft Media Services (MMS, `ms-streaming`)	Official
1761	TCP	UDP	Novell ZENworks[125][126]	Unofficial
1783			Decomissioned [*sic*] Port 04/14/00, ms	Official
1801	TCP	UDP	Microsoft Message Queuing	Official
1812	TCP	UDP	RADIUS authentication protocol, `radius`	Official
1813	TCP	UDP	RADIUS accounting protocol, `radius-acct`	Official
1863	TCP	UDP	Microsoft Notification Protocol (MSNP), used by the Microsoft Messenger service and a number of instant messaging Messenger clients	Official
1880	?	?	Node-RED[127]	Unofficial
1883	TCP	UDP	MQTT (formerly MQ Telemetry Transport)	Official
1900	Assigned	Yes	Simple Service Discovery Protocol (SSDP),[9] discovery of UPnP devices	Official
1935	TCP	UDP	Macromedia Flash Communications Server MX, the precursor to Adobe Flash Media Server before Macromedia's acquisition by Adobe on December 3, 2005	Official

Port	TCP	UDP	Description	IANA status[1]
1935	TCP	UDP	Real Time Messaging Protocol (RTMP), primarily used in Adobe Flash[128]	Unofficial
1967		UDP	Cisco IOS IP Service Level Agreements (IP SLAs) Control Protocol	Unofficial
1970	TCP	UDP	Netop Remote Control	Official
1972	TCP	UDP	InterSystems Caché	Official
1984	TCP	UDP	Big Brother	Official
1985	Assigned	Yes	Cisco Hot Standby Router Protocol (HSRP)[129]	Official
1998	TCP	UDP	Cisco X.25 over TCP (XOT) service	Official
2000	TCP	UDP	Cisco Skinny Client Control Protocol (SCCP)	Official
2010	?	?	Artemis: Spaceship Bridge Simulator[130]	Unofficial
2033	TCP	UDP	Civilization IV multiplayer[131]	Unofficial
2049	TCP SCTP	UDP	Network File System (NFS)[9]	Official
2056	TCP	UDP	Civilization IV multiplayer[131]	Unofficial
2080	TCP	UDP	Autodesk NLM (FLEXlm)	Official
2082	TCP		cPanel default[132]	Unofficial
2083	TCP	UDP	Secure RADIUS Service (radsec)	Official
2083	TCP		cPanel default SSL[132]	Unofficial
2086	TCP	UDP	GNUnet	Official
2086	TCP		WebHost Manager default[132]	Unofficial
2087	TCP		WebHost Manager default SSL[132]	Unofficial
2095	TCP		cPanel default web mail[132]	Official
2096	TCP		cPanel default SSL web mail[132]	Unofficial
2100	TCP		Warzone 2100 multiplayer	Unofficial
2101	TCP		Networked Transport of RTCM via Internet Protocol (NTRIP)	Unofficial
2102	TCP	UDP	Zephyr Notification Service server	Official
2103	TCP	UDP	Zephyr Notification Service `serv-hm` connection	Official
2104	TCP	UDP	Zephyr Notification Service hostmanager	Official
2123	TCP	UDP	GTP control messages (GTP-C)	Official
2142	TCP	UDP	TDMoIP (TDM over IP)	Official
2152	TCP	UDP	GTP user data messages (GTP-U)	Official
2159	TCP	UDP	GDB remote debug port	Official
2181	TCP	UDP	EForward-document transport system	Official
2181	TCP		Apache ZooKeeper default client port	Unofficial
2195	TCP		Apple Push Notification Service[9][133]	Unofficial

Port	TCP	UDP	Description	IANA status[1]
2196	TCP		Apple Push Notification Service, feedback service[9][133]	Unofficial
2210	TCP	UDP	NOAAPORT Broadcast Network	Official
2211	TCP	UDP	EMWIN	Official
2221	TCP		ESET anti-virus updates[134]	Unofficial
2222	TCP	UDP	EtherNet/IP implicit messaging for IO data	Official
2222	?	?	DirectAdmin Access[135]	Unofficial
2222–2226	TCP		ESET Remote administrator[134]	Official
2261	TCP	UDP	CoMotion master	Official
2262	TCP	UDP	CoMotion backup	Official
2266	TCP	UDP	M-Files	Official
2302		UDP	ArmA multiplayer	Unofficial
		UDP	Halo: Combat Evolved multiplayer host[136]	Unofficial
2303		UDP	ArmA multiplayer *(default port for game +1)*	Unofficial
		UDP	Halo: Combat Evolved multiplayer listener[136]	Unofficial
2305		UDP	ArmA multiplayer *(default port for game +3)*	Unofficial
2351	TCP		AIM game LAN network port	Unofficial
2368	TCP		Ghost (blogging platform)[137]	Unofficial
2369	TCP		Default for BMC Control-M/Server Configuration Agent	Unofficial
2370	TCP		Default for BMC Control-M/Server, to allow the Control-M/Enterprise Manager to connect to the Control-M/Server	Unofficial
2372	TCP		Default for K9 Web Protection/parental controls, content filtering agent	Unofficial
2375	TCP	Reserved	Docker REST API (plain)	Official
2376	TCP	Reserved	Docker REST API (SSL)	Official
2377	Yes	Reserved	Docker Swarm cluster management communications[138]	Official
2379	TCP	Reserved	CoreOS etcd client communication	Official
2379	TCP		KGS Go Server[139]	Unofficial
2380	TCP	Reserved	CoreOS etcd server communication	Official
2399	TCP	UDP	FileMaker Data Access Layer (ODBC/JDBC)	Official
2401	TCP	UDP	CVS version control system password-based server	Official
2404	TCP	UDP	IEC 60870-5-104, used to send electric power telecontrol messages between two systems via directly connected data circuits	Official
2424	TCP		OrientDB database listening for binary client connections[140]	Unofficial
2427	TCP	UDP	Media Gateway Control Protocol (MGCP) media gateway	Official
2447	TCP	UDP	ovwdb—OpenView Network Node Manager (NNM) daemon	Official
2480	TCP		OrientDB database listening for HTTP client connections[140]	Unofficial

Port	TCP	UDP	Description	IANA status[1]
2483	TCP	UDP	Oracle database listening for insecure client connections to the listener, replaces port 1521	Official
2484	TCP	UDP	Oracle database listening for SSL client connections to the listener	Official
2535	TCP	UDP	Multicast Address Dynamic Client Allocation Protocol (MADCAP).[141] All standard messages are UDP datagrams.[142]	Official
2541	TCP	UDP	LonTalk/IP	Official
2546–2548	TCP	UDP	EVault data protection services	Official
2593	TCP	UDP	Ultima Online servers	Unofficial
2598	TCP		Citrix Independent Computing Architecture (ICA) with Session Reliability; port 1494 without session reliability[111]	Unofficial
2599	TCP	UDP	Ultima Online servers	Unofficial
2638	TCP	UDP	SQL Anywhere database server[143][144]	Official
2710	TCP	UDP	XBT Tracker.[145] UDP tracker extension is considered experimental.[146]	Unofficial
2727	TCP	UDP	Media Gateway Control Protocol (MGCP) media gateway controller (call agent)	Official
2809	TCP	UDP	corbaloc:iiop URL, per the CORBA 3.0.3 specification	Official
2811	TCP	UDP	gsi ftp, per the GridFTP specification	Official
2827	TCP		I2P BOB Bridge[147]	Unofficial
2944	TCP	UDP	Megaco text H.248	Official
2945	TCP	UDP	Megaco binary (ASN.1) H.248	Official
2947	TCP	UDP	gpsd, GPS daemon	Official
2948	TCP	UDP	WAP push Multimedia Messaging Service (MMS)	Official
2949	TCP	UDP	WAP push secure (MMS)	Official
2967	TCP	UDP	Symantec System Center agent (SSC-AGENT)	Official
3000	TCP		Cloud9 IDE server	Unofficial
3000	TCP		Ruby on Rails development default[148]	Unofficial
3000	TCP		Meteor development default[149]	Unofficial
3000	TCP	UDP	Resilio Sync,[150] spun from BitTorrent Sync.	Unofficial
3000		UDP	Distributed Interactive Simulation (DIS)	Unofficial
3004	TCP		iSync[9]	Unofficial
3020	TCP	UDP	Common Internet File System (CIFS). See also port 445 for Server Message Block (SMB), a dialect of CIFS.	Official
3050	TCP	UDP	gds-db (Interbase/Firebird databases)	Official
3052	TCP	UDP	APC PowerChute Network	Official
3074	TCP	UDP	Xbox LIVE and Games for Windows – Live	Official
3101	TCP		BlackBerry Enterprise Server communication protocol[151]	Unofficial

Port	TCP	UDP	Description	IANA status[1]
3128	TCP	?	Squid caching web proxy[152]	Unofficial
3225	TCP	UDP	Fibre Channel over IP (FCIP)	Official
3233	TCP	UDP	WhiskerControl research control protocol	Official
3260	TCP	UDP	iSCSI	Official
3268	TCP	UDP	msft-gc, Microsoft Global Catalog (LDAP service which contains data from Active Directory forests)	Official
3269	TCP	UDP	msft-gc-ssl, Microsoft Global Catalog over SSL (similar to port 3268, LDAP over SSL)	Official
3283	TCP	UDP	*Net Assistant*,[9] a predecessor to *Apple Remote Desktop*	Official
3283	TCP	UDP	Apple Remote Desktop 2.0 or later[9]	Unofficial
3290		UDP	Virtual Air Traffic Simulation (VATSIM) network voice communication	Unofficial
3305	TCP	UDP	Odette File Transfer Protocol (OFTP)	Official
3306	TCP	Assigned	MySQL database system[9]	Official
3313	TCP		Verisys file integrity monitoring software	Unofficial
3316	TCP		AzimuthVMS database port for the CCTV recording software AzimuthVMS	Unofficial
3323	TCP	UDP	DECE GEODI Server	Unofficial
3332		UDP	Thundercloud DataPath Overlay Control	Unofficial
3333	TCP		Eggdrop, an IRC bot default port[153]	Unofficial
3333	TCP		Network Caller ID server	Unofficial
3333	TCP		CruiseControl.rb[154]	Unofficial
3351	?	?	Pervasive PSQL[117]	Unofficial
3386	TCP	UDP	GTP' 3GPP GSM/UMTS CDR logging protocol	Official
3389	TCP	UDP	Microsoft Terminal Server (RDP) officially registered as Windows Based Terminal (WBT)[155]	Official
3396	TCP	UDP	Novell NDPS Printer Agent	Official
3412	TCP	UDP	xmlBlaster	Official
3455	TCP	UDP	Resource Reservation Protocol (RSVP)	Official
3423	TCP		Xware xTrm Communication Protocol	Official
3424	TCP		Xware xTrm Communication Protocol over SSL	Official
3478	TCP	UDP	STUN, a protocol for NAT traversal[156]	Official
3478	TCP	UDP	TURN, a protocol for NAT traversal[157] (extension to STUN)	Official
3478	TCP	UDP	STUN Behavior Discovery.[158] See also port 5349.	Official
3479	TCP	UDP	PlayStation Network[159]	Unofficial
3480	TCP	UDP	PlayStation Network[159]	Unofficial
3483		UDP	Slim Devices discovery protocol	Official

Port	TCP	UDP	Description	IANA status[1]
3483	TCP		Slim Devices SlimProto protocol	Official
3493	TCP	UDP	Network UPS Tools (NUT)	Official
3516	TCP	UDP	Smartcard Port	Official
3527		UDP	Microsoft Message Queuing	Official
3535	TCP		SMTP alternate[160]	Unofficial
3544		UDP	Teredo tunneling	Official
3632	TCP	Assigned	Distcc, distributed compiler[9]	Official
3645	TCP	UDP	Cyc	Official
3659	TCP	UDP	Apple SASL, used by Mac OS X Server Password Server[9]	Official
3659		UDP	Battlefield 4	Unofficial
3667	TCP	UDP	Information Exchange	Official
3689	TCP	Assigned	Digital Audio Access Protocol (DAAP), used by Apple's iTunes and AirPlay[9]	Official
3690	TCP	UDP	Subversion (SVN)[9] version control system	Official
3702	TCP	UDP	Web Services Dynamic Discovery (WS-Discovery), used by various components of Windows Vista and later	Official
3724	TCP	UDP	Some Blizzard games[108]	Official
3724	TCP		Club Penguin Disney online game for kids	Unofficial
3725	TCP	UDP	Netia NA-ER Port	Official
3768	TCP	UDP	RBLcheckd server daemon	Official
3784		UDP	Bidirectional Forwarding Detection (BFD)for IPv4 and IPv6 (Single Hop) (RFC 5881)	Official
3785		UDP	VoIP program used by Ventrilo	Unofficial
3799		UDP	RADIUS change of authorization	Official
3804	TCP	UDP	Harman Professional HiQnet protocol	Official
3825	TCP		RedSeal Networks client/server connection	Unofficial
3826	TCP	UDP	WarMUX game server	Official
3826	TCP		RedSeal Networks client/server connection	Unofficial
3835	TCP		RedSeal Networks client/server connection	Unofficial
3830	TCP	UDP	System Management Agent, developed and used by Cerner to monitor and manage solutions	Official
3856	TCP	UDP	ERP Server Application used by F10 Software	Unofficial
3880	TCP	UDP	IGRS	Official
3868	TCP	SCTP	Diameter base protocol (RFC 3588)	Official
3872	TCP		Oracle Enterprise Manager Remote Agent	Official
3900	TCP		udt_os, IBM UniData UDT OS[161]	Official
3960		UDP	*Warframe* online interaction	Unofficial

Port	TCP	UDP	Description	IANA status[1]
3962		UDP	*Warframe* online interaction	Unofficial
3978	TCP	UDP	*OpenTTD* game (masterserver and content service)	Unofficial
3979	TCP	UDP	*OpenTTD* game	Unofficial
3999	TCP	UDP	Norman distributed scanning service	Official
4000	TCP	UDP	*Diablo II* game	Unofficial
4001	TCP		*Microsoft Ants* game	Unofficial
4001	TCP		CoreOS etcd client communication	Unofficial
4018	TCP	UDP	Protocol information and warnings	Official
4035	TCP		IBM Rational Developer for System z Remote System Explorer Daemon	Unofficial
4045	TCP	UDP	Solaris lockd NFS lock daemon/manager	Unofficial
4050	TCP		Mud Master Chat protocol (MMCP) - Peer-to-peer communications between MUD clients.[162]	Unofficial
4069		UDP	Minger Email Address Verification Protocol[163]	Official
4089	TCP	UDP	OpenCORE Remote Control Service	Official
4090	TCP	UDP	Kerio	Official
4093	TCP	UDP	PxPlus Client server interface ProvideX	Official
4096	TCP	UDP	Ascom Timeplex Bridge Relay Element (BRE)	Official
4105	TCP	UDP	Shofar (ShofarNexus)	Official
4111	TCP	Assigned	Xgrid[9]	Official
4116	TCP	UDP	Smartcard-TLS	Official
4125	TCP		Microsoft Remote Web Workplace administration	Unofficial
4172	TCP	UDP	Teradici PCoIP	Official
4190	TCP		ManageSieve[164]	Official
4198	TCP	UDP	Couch Potato Android app[165]	Unofficial
4201	TCP		TinyMUD and various derivatives	Unofficial
4222	TCP		NATS server default port[166]	Unofficial
4226	TCP	UDP	Aleph One, a computer game	Unofficial
4242	TCP		Orthanc – DICOM server[167]	Unofficial
4242	TCP		Quassel distributed IRC client	Unofficial
4243	TCP		Docker implementations, redistributions, and setups default[168]	Unofficial
4243	TCP		CrashPlan	Unofficial
4244	TCP	UDP	Viber[169]	Unofficial
4303	TCP	UDP	Simple Railroad Command Protocol (SRCP)	Official
4307	TCP		TrueConf Client - TrueConf Server media data exchange[170]	Official
4321	TCP		Referral Whois (RWhois) Protocol[171]	Official

Port	TCP	UDP	Description	IANA status[1]
4352	TCP		PJLink, by JBMIA for controlling projectors via LAN connections	Official
4444	TCP	UDP	Oracle WebCenter Content: Content Server—Intradoc Socket port. (formerly known as Oracle Universal Content Management).	Unofficial
4444	?	?	Metasploit's default listener port	Unofficial
4444	TCP	UDP	Xvfb X server virtual frame buffer service	Unofficial
4444–4445	TCP		I2P HTTP/S proxy	Unofficial
4486	TCP	UDP	Integrated Client Message Service (ICMS)	Official
4488	TCP	Assigned	Apple Wide Area Connectivity Service, used by Back to My Mac[9]	Official
4500	Assigned	UDP	IPSec NAT Traversal[9] (RFC 3947, RFC 4306)	Official
4502–4534	TCP		Microsoft Silverlight connectable ports under non-elevated trust	Official
4505–4506	TCP		Salt master	Unofficial
4534		UDP	Armagetron Advanced server default	Unofficial
4560	TCP		default Log4j socketappender port	Unofficial
4567	TCP		Sinatra default server port in development mode (HTTP)	Unofficial
4569		UDP	Inter-Asterisk eXchange (IAX2)	Official
4604	TCP		Identity Registration Protocol	Official
4605	TCP		Direct End to End Secure Chat Protocol	Official
4610–4640	TCP		QualiSystems TestShell Suite Services	Unofficial
4662	TCP	UDP	OrbitNet Message Service	Official
4662	TCP		Default for older versions of eMule[172]	Unofficial
4664	TCP		Google Desktop Search	Unofficial
4672		UDP	Default for older versions of eMule[172]	Unofficial
4711	TCP		eMule optional web interface[172]	Unofficial
4713	TCP		PulseAudio sound server	Unofficial
4728	TCP		Computer Associates Desktop and Server Management (DMP)/Port Multiplexer[173]	Official
4730	TCP	UDP	Gearman's job server	Official
4739	TCP	UDP	IP Flow Information Export	Official
4747	TCP		Apprentice	Unofficial
4750	TCP		BladeLogic Agent	Unofficial
4753	TCP	UDP	SIMON (service and discovery)	Official
4789		UDP	Virtual eXtensible Local Area Network (VXLAN)[174]	Official
4840	TCP	UDP	OPC UA Connection Protocol (TCP) and OPC UA Multicast Datagram Protocol (UDP) for OPC Unified Architecture from OPC Foundation	Official

Port	TCP	UDP	Description	IANA status[1]
4843	TCP	UDP	OPC UA TCP Protocol over TLS/SSL for OPC Unified Architecture from OPC Foundation	Official
4847	TCP	UDP	Web Fresh Communication, Quadrion Software & Odorless Entertainment	Official
4848	TCP		Java, Glassfish Application Server administration default	Unofficial
4894	TCP	UDP	LysKOM Protocol A	Official
4949	TCP		Munin Resource Monitoring Tool	Official
4950	TCP	UDP	Cylon Controls UC32 Communications Port	Official
5000	TCP		UPnP—Windows network device interoperability	Unofficial
5000	TCP	UDP	VTun, VPN Software	Unofficial
5000		UDP	FlightGear multiplayer[175]	Unofficial
5000	TCP		Synology Inc. Management Console, File Station, Audio Station	Unofficial
5000	TCP		Flask Development Webserver	Unofficial
5000	TCP		Heroku console access	Official
5000	TCP		AT&T U-verse public, educational, and government access (PEG) streaming over HTTP[176]	Unofficial
5000–5500	No	Yes	*League of Legends*, a multiplayer online battle arena video game[177]	Unofficial
5001	TCP		Slingbox and Slingplayer	Unofficial
5001	TCP	UDP	Iperf (Tool for measuring TCP and UDP bandwidth performance)	Unofficial
5001	TCP		Synology Inc. Secured Management Console, File Station, Audio Station	Unofficial
5002	TCP		ASSA ARX access control system[178]	Unofficial
5003	TCP	Assigned	FileMaker – name binding and transport[9]	Official
5004	TCP DCCP	UDP	Real-time Transport Protocol media data (RTP) (RFC 3551, RFC 4571)	Official
5005	TCP DCCP	UDP	Real-time Transport Protocol control protocol (RTCP) (RFC 3551, RFC 4571)	Official
5010	TCP	UDP	Registered to: TelePath (the IBM FlowMark workflow-management system messaging platform)[179] The TCP port is now used for: IBM WebSphere MQ Workflow	Official
5011	TCP	UDP	TelePath (the IBM FlowMark workflow-management system messaging platform)[179]	Official
5031	TCP	UDP	AVM CAPI-over-TCP (ISDN over Ethernet tunneling)	Unofficial
5037	TCP		Android ADB server	Unofficial
5048	TCP		Texai Message Service	Official
5050	TCP		Yahoo! Messenger	Unofficial
5051	TCP		ita-agent Symantec Intruder Alert[180]	Official
5060	TCP	UDP	Session Initiation Protocol (SIP)[9]	Official

Port	TCP	UDP	Description	IANA status[1]
5061	TCP		Session Initiation Protocol (SIP) over TLS	Official
5062	TCP	UDP	Localisation access	Official
5064	Yes	Yes	EPICS Channel Access server[181]	Official
5065	Assigned	Yes	EPICS Channel Access repeater beacon[181]	Official
5070	Yes	No	Binary Floor Control Protocol (BFCP)[182]	Unofficial
5084	TCP	UDP	EPCglobal Low Level Reader Protocol (LLRP)	Official
5085	TCP	UDP	EPCglobal Low Level Reader Protocol (LLRP) over TLS	Official
5093		UDP	SafeNet, Inc Sentinel LM, Sentinel RMS, License Manager, client-to-server	Official
5099	TCP	UDP	SafeNet, Inc Sentinel LM, Sentinel RMS, License Manager, server-to-server	Official
5104	TCP		IBM Tivoli Framework NetCOOL/Impact[183] HTTP Service	Unofficial
5121	TCP		Neverwinter Nights	Unofficial
5124	TCP	UDP	TorgaNET (Micronational Darknet)	Unofficial
5125	TCP	UDP	TorgaNET (Micronational Intelligence Darknet)	Unofficial
5150	TCP	UDP	ATMP Ascend Tunnel Management Protocol[184]	Official
5151	TCP		ESRI SDE Instance	Official
5151		UDP	ESRI SDE Remote Start	Official
5154	TCP	UDP	BZFlag	Official
5172	TCP		PC over IP Endpoint Management[185]	Official
5190	Yes	Yes	AOL Instant Messenger protocol.[9] The chat app is defunct as of 15 December 2017.[186]	Official
5198		UDP	EchoLink VoIP Amateur Radio Software (Voice)	Unofficial
5199		UDP	EchoLink VoIP Amateur Radio Software (Voice)	Unofficial
5200	TCP		EchoLink VoIP Amateur Radio Software (Information)	Unofficial
5201	TCP	UDP	Iperf3 (Tool for measuring TCP and UDP bandwidth performance)	Unofficial
5222	TCP	Reserved	Extensible Messaging and Presence Protocol (XMPP) client connection[9][187][188]	Official
5223	TCP		Apple Push Notification Service[9][133]	Unofficial
5223	TCP		Extensible Messaging and Presence Protocol (XMPP) client connection over SSL	Unofficial
5228	TCP		HP Virtual Room Service	Official
5228	TCP		Google Play, Android Cloud to Device Messaging Service, Google Cloud Messaging	Unofficial
5242	TCP	UDP	Viber[169]	Unofficial
5243	TCP	UDP	Viber[169]	Unofficial
5246		UDP	Control And Provisioning of Wireless Access Points (CAPWAP) CAPWAP control[189]	Official

Port	TCP	UDP	Description	IANA status[1]
5247		UDP	Control And Provisioning of Wireless Access Points (CAPWAP) CAPWAP data[189]	Official
5269	TCP		Extensible Messaging and Presence Protocol (XMPP) server-to-server connection[9][187][188]	Official
5280	TCP		Extensible Messaging and Presence Protocol (XMPP)[190]	Official
5281	TCP		Undo License Manager	Official
5281	TCP		Extensible Messaging and Presence Protocol (XMPP)[191]	Unofficial
5298	TCP	UDP	Extensible Messaging and Presence Protocol (XMPP)[192]	Official
5310	TCP	UDP	Outlaws (1997 video game). Both UDP and TCP are reserved, but only UDP is used	Official
5349	Yes/No	Yes/No	STUN over TLS/DTLS, a protocol for NAT traversal[156]	Official
5349	Yes/No	Yes/No	TURN over TLS/DTLS, a protocol for NAT traversal[157]	Official
5349	TCP	Reserved	STUN Behavior Discovery over TLS.[158] See also port 3478.	Official
5351	Reserved	UDP	NAT Port Mapping Protocol and Port Control Protocol—client-requested configuration for connections through network address translators and firewalls	Official
5353	Assigned	UDP	Multicast DNS (mDNS)[9]	Official
5355	TCP	UDP	Link-Local Multicast Name Resolution (LLMNR), allows hosts to perform name resolution for hosts on the same local link (only provided by Windows Vista and Server 2008)	Official
5357	TCP	UDP	Web Services for Devices (WSDAPI) (only provided by Windows Vista, Windows 7 and Server 2008)	Unofficial
5358	TCP	UDP	WSDAPI Applications to Use a Secure Channel (only provided by Windows Vista, Windows 7 and Server 2008)	Unofficial
5394		UDP	Kega Fusion, a Sega multi-console emulator[193][194]	Unofficial
5402	TCP	UDP	Multicast File Transfer Protocol (MFTP)[195]	Official
5405	TCP	UDP	NetSupport Manager	Official
5412	TCP	UDP	IBM Rational Synergy (Telelogic Synergy) (Continuus CM) Message Router	Official
5413	TCP	UDP	Wonderware SuiteLink service	Official
5417	TCP	UDP	SNS Agent	Official
5421	TCP	UDP	NetSupport Manager	Official
5432	TCP	Assigned	PostgreSQL[9] database system	Official
5433	TCP		Bouwsoft file/webserver[196]	Unofficial
5445		UDP	Cisco Unified Video Advantage	Unofficial
5480	TCP		VMware VAMI (Virtual Appliance Management Infrastructure)—used for initial setup of various administration settings on Virtual Appliances designed using the VAMI architecture.	Unofficial
5481	TCP		Schneider Electric's ClearSCADA (SCADA implementation for Windows) — used for client-to-server communication.[197]	Unofficial

Port	TCP	UDP	Description	IANA status[1]
5495	TCP		IBM Cognos TM1 Admin server	Unofficial
5498	TCP		Hotline tracker server connection	Unofficial
5499		UDP	Hotline tracker server discovery	Unofficial
5500	TCP		Hotline control connection	Unofficial
5500	TCP		VNC Remote Frame Buffer RFB protocol—for incoming listening viewer	Unofficial
5501	TCP		Hotline file transfer connection	Unofficial
5517	TCP		Setiqueue Proxy server client for SETI@Home project	Unofficial
5550	TCP		Hewlett-Packard Data Protector	Unofficial
5554	TCP	UDP	Fastboot default wireless port	Unofficial
5555	TCP	UDP	Oracle WebCenter Content: Inbound Refinery—Intradoc Socket port. (formerly known as Oracle Universal Content Management). Port though often changed during installation	Unofficial
5555	TCP		Freeciv versions up to 2.0, Hewlett-Packard Data Protector, McAfee EndPoint Encryption Database Server, SAP, Default for Microsoft Dynamics CRM 4.0, Softether VPN default port	Unofficial
5556	TCP	UDP	Freeciv, Oracle WebLogic Server Node Manager[198]	Official
5568	TCP	UDP	Session Data Transport (SDT), a part of Architecture for Control Networks (ACN)[199]	Official
5601	TCP		Kibana	Unofficial
5631	TCP		pcANYWHEREdata, Symantec pcAnywhere (version 7.52 and later[200])[201] data	Official
5632		UDP	pcANYWHEREstat, Symantec pcAnywhere (version 7.52 and later) status	Official
5656	TCP		IBM Lotus Sametime p2p file transfer	Unofficial
5666	TCP		NRPE (Nagios)	Unofficial
5667	TCP		NSCA (Nagios)	Unofficial
5670	TCP		FILEMQ ZeroMQ File Message Queuing Protocol	Official
5670		UDP	ZRE-DISC ZeroMQ Realtime Exchange Protocol (Discovery)	Official
5672	TCP		AMQP[202]	Official
5678		UDP	Mikrotik RouterOS Neighbor Discovery Protocol (MNDP)	Unofficial
5683		UDP	Constrained Application Protocol (CoAP)	Official
5701	TCP		Hazelcast default communication port[203]	Unofficial
5722	TCP	UDP	Microsoft RPC, DFSR (SYSVOL) Replication Service	Official
5718	TCP		Microsoft DPM Data Channel (with the agent coordinator)	Unofficial
5719	TCP		Microsoft DPM Data Channel (with the protection agent)	Unofficial
5723	TCP		System Center Operations Manager[204]	Unofficial
5724	TCP		Operations Manager Console	Unofficial

Port	TCP	UDP	Description	IANA status[1]
5741	TCP	UDP	IDA Discover Port 1	Official
5742	TCP	UDP	IDA Discover Port 2	Official
5800	TCP		VNC Remote Frame Buffer RFB protocol over HTTP	Unofficial
5800	TCP		ProjectWise Server[205]	Unofficial
5900	TCP	UDP	Remote Frame Buffer protocol (RFB)	Official
5900	TCP		Virtual Network Computing (VNC) Remote Frame Buffer RFB protocol[9][206]	Unofficial
5931	TCP	UDP	AMMYY admin Remote Control	Official
5938	TCP	UDP	TeamViewer remote desktop protocol[207]	Unofficial
5984	TCP	UDP	CouchDB database server	Official
5985	TCP		Windows PowerShell Default psSession Port[208]	Official
5986	TCP		Windows PowerShell Default psSession Port[208]	Official
5988–5989	TCP		CIM-XML (DMTF Protocol)[209]	Official
6000-6063	TCP	UDP	X11—used between an X client and server over the network	Official
6005	TCP		Default for BMC Software Control-M/Server—Socket used for communication between Control-M processes—though often changed during installation	Unofficial
6005	TCP		Default for Camfrog chat & cam client	Unofficial
6009	TCP		JD Edwards EnterpriseOne ERP system JDENet messaging client listener	Unofficial
6050	TCP		Arcserve backup	Unofficial
6051	TCP		Arcserve backup	Unofficial
6086	TCP		Peer Distributed Transfer Protocol (PDTP), FTP like file server in a P2P network	Official
6100	TCP		Vizrt System	Unofficial
6100	TCP		Ventrilo authentication for version 3	Unofficial
6101	TCP		Backup Exec Agent Browser	Unofficial
6110	TCP	UDP	softcm, HP Softbench CM	Official
6111	TCP	UDP	spc, HP Softbench Sub-Process Control	Official
6112	TCP	UDP	dtspcd, execute commands and launch applications remotely	Official
6112	TCP	UDP	Blizzard's Battle.net gaming service and some games,[108] ArenaNet gaming service, Relic gaming service	Unofficial
6112	TCP		Club Penguin Disney online game for kids	Unofficial
6113	TCP		Club Penguin Disney online game for kids, Used by some Blizzard games[108]	Unofficial
6136	TCP		ObjectDB database server[210]	Unofficial
6159	TCP		ARINC 840 EFB Application Control Interface	Official

Port	TCP	UDP	Description	IANA status[1]
6200	TCP		Oracle WebCenter Content Portable: Content Server (With Native UI) and Inbound Refinery	Unofficial
6201	TCP		Oracle WebCenter Content Portable: Admin	Unofficial
6225	TCP		Oracle WebCenter Content Portable: Content Server Web UI	Unofficial
6227	TCP		Oracle WebCenter Content Portable: JavaDB	Unofficial
6240	TCP		Oracle WebCenter Content Portable: Capture	Unofficial
6244	TCP	UDP	Oracle WebCenter Content Portable: Content Server—Intradoc Socket port	Unofficial
6255	TCP	UDP	Oracle WebCenter Content Portable: Inbound Refinery—Intradoc Socket port	Unofficial
6257		UDP	WinMX (see also 6699)	Unofficial
6260	TCP	UDP	planet M.U.L.E.	Unofficial
6262	TCP		Sybase Advantage Database Server	Unofficial
6343		UDP	SFlow, sFlow traffic monitoring	Official
6346	TCP	UDP	gnutella-svc, gnutella (FrostWire, Limewire, Shareaza, etc.)	Official
6347	TCP	UDP	gnutella-rtr, Gnutella alternate	Official
6350	TCP	UDP	App Discovery and Access Protocol	Official
6379	TCP		Redis key-value data store	Official
6389	TCP		EMC CLARiiON	Unofficial
6432	TCP		PgBouncer—A connection pooler for PostgreSQL	Official
6436	TCP		Leap Motion Websocket Server TLS	Unofficial
6437	TCP		Leap Motion Websocket Server	Unofficial
6444	TCP	UDP	Sun Grid Engine Qmaster Service	Official
6445	TCP	UDP	Sun Grid Engine Execution Service	Official
6463–6472	TCP		Discord RPC[211]	Unofficial
6502	TCP	UDP	Netop Remote Control	Unofficial
6513	TCP		NETCONF over TLS	Official
6514	TCP		Syslog over TLS[212]	Official
6515	TCP	UDP	Elipse RPC Protocol (REC)	Official
6543	TCP		Pylons project#Pyramid Default Pylons Pyramid web service port	Unofficial
6556	TCP		Check MK Agent	Unofficial
6566	TCP		SANE (Scanner Access Now Easy)—SANE network scanner daemon[213]	Official
6560–6561	TCP		Speech-Dispatcher daemon	Unofficial
6571			Windows Live FolderShare client	Unofficial
6600	TCP		Microsoft Hyper-V Live	Official

Port	TCP	UDP	Description	IANA status[1]
6600	TCP		Music Player Daemon (MPD)	Unofficial
6601	TCP		Microsoft Forefront Threat Management Gateway	Official
6602	TCP		Microsoft Windows WSS Communication	Official
6619	TCP	UDP	odette-ftps, Odette File Transfer Protocol (OFTP) over TLS/SSL	Official
6622	TCP	UDP	Multicast FTP	Official
6653	Yes	Assigned	OpenFlow	Official
6660–6664	TCP		Internet Relay Chat (IRC)	Unofficial
6665–6669	TCP		Internet Relay Chat (IRC)	Official
6679	TCP	UDP	Osorno Automation Protocol (OSAUT)	Official
6679	TCP		IRC SSL (Secure Internet Relay Chat)—often used	Unofficial
6690	TCP		Synology Cloud station	Unofficial
6697	TCP		IRC SSL (Secure Internet Relay Chat)—often used	Official
6699	TCP		WinMX (see also 6257)	Unofficial
6715	TCP		AberMUD and derivatives default port	Unofficial
6771		UDP	BitTorrent Local Peer Discovery	Unofficial
6783–6785	TCP		Splashtop Remote server broadcast	Unofficial
6789	TCP		Campbell Scientific Loggernet Software[214]	Unofficial
6789	TCP		Bucky's Instant Messaging Program	Unofficial
6869	TCP		Derandom default server	Unofficial
6881–6887	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6888	TCP	UDP	MUSE	Official
6888	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6889–6890	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6891–6900	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6891–6900	TCP	UDP	Windows Live Messenger (File transfer)	Unofficial
6901	TCP	UDP	Windows Live Messenger (Voice)	Unofficial
6901	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6902–6968	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6969	TCP	UDP	acmsoda	Official
6969	TCP		BitTorrent tracker	Unofficial

Port	TCP	UDP	Description	IANA status[1]
6970–6999	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6970–9999		UDP	QuickTime Streaming Server[9]	Unofficial
7000	TCP		Default for Vuze's built in HTTPS Bittorrent Tracker	Unofficial
7000	TCP		Avira Server Management Console	Unofficial
7001	TCP		Avira Server Management Console	Unofficial
7001	TCP		Default for BEA WebLogic Server's HTTP server, though often changed during installation	Unofficial
7002	TCP		Default for BEA WebLogic Server's HTTPS server, though often changed during installation	Unofficial
7005	TCP		Default for BMC Software Control-M/Server and Control-M/Agent for Agent-to-Server, though often changed during installation	Unofficial
7006	TCP		Default for BMC Software Control-M/Server and Control-M/Agent for Server-to-Agent, though often changed during installation	Unofficial
7010	TCP		Default for Cisco AON AMC (AON Management Console)[215]	Unofficial
7022	TCP		Database mirroring endpoints[216]	Unofficial
7023		UDP	Bryan Wilcutt T2-NMCS Protocol for SatCom Modems	Official
7025	TCP		Zimbra LMTP [mailbox]—local mail delivery	Unofficial
7047	TCP		Zimbra conversion server	Unofficial
7070	Yes	Yes/No	Real Time Streaming Protocol (RTSP), used by QuickTime Streaming Server. TCP is used by default, UDP is used as an alternate.[9]	Unofficial
7133	TCP		Enemy Territory: Quake Wars	Unofficial
7144	TCP		Peercast	Unofficial
7145	TCP		Peercast	Unofficial
7171	TCP		Tibia	Unofficial
7262	TCP	UDP	CNAP (Calypso Network Access Protocol)	Official
7272	TCP	UDP	WatchMe - WatchMe Monitoring	Official
7306	TCP		Zimbra mysql [mailbox]	Unofficial
7307	TCP		Zimbra mysql [logger]	Unofficial
7312		UDP	Sibelius License Server	Unofficial
7396	TCP		Web control interface for Folding@home v7.3.6 and later[217]	Unofficial
7400	TCP	UDP	RTPS (Real Time Publish Subscribe) DDS Discovery	Official
7401	TCP	UDP	RTPS (Real Time Publish Subscribe) DDS User-Traffic	Official
7402	TCP	UDP	RTPS (Real Time Publish Subscribe) DDS Meta-Traffic	Official
7471	TCP		Stateless Transport Tunneling (STT)	Unofficial
7473	TCP		Rise: The Vieneo Province	Official
7474	TCP		Neo4J Server webadmin[218]	Official

Port	TCP	UDP	Description	IANA status[1]
7478	TCP		Default port used by Open iT Server.[219]	Official
7542	TCP	UDP	*Saratoga* file transfer protocol[220][221]	Official
7547	TCP	UDP	CPE WAN Management Protocol (CWMP) Technical Report 069	Official
7575		UDP	Populous: The Beginning server	Unofficial
7624	TCP	UDP	Instrument Neutral Distributed Interface	Official
7631	TCP		ERLPhase	Official
7634	TCP		hddtemp—Utility to monitor hard drive temperature	Unofficial
7652–7654	TCP		I2P anonymizing overlay network	Unofficial
7655		UDP	I2P SAM Bridge Socket API	Unofficial
7656–7660	TCP		I2P anonymizing overlay network	Unofficial
7670	TCP		BrettspielWelt BSW Boardgame Portal	Unofficial
7687	TCP		Bolt database connection	Official
7707–7708		UDP	*Killing Floor*	Unofficial
7717		UDP	*Killing Floor*	Unofficial
7777	TCP		iChat server file transfer proxy[9]	Unofficial
7777	TCP		Oracle Cluster File System 2	Unofficial
7777	TCP		Windows backdoor program tini.exe default	Unofficial
7777	TCP		*Just Cause 2: Multiplayer Mod* Server	Unofficial
7777	TCP		*Terraria* default server	Unofficial
7777		UDP	*San Andreas Multiplayer* (SA-MP) default port server	Unofficial
7777–7788	TCP	UDP	*Unreal Tournament* series default server	Unofficial
7831	TCP		Default used by Smartlaunch Internet Cafe Administration[222] software	Unofficial
7880	TCP	UDP	PowerSchool Gradebook Server	Unofficial
7890	TCP		Default that will be used by the iControl Internet Cafe Suite Administration software	Unofficial
7915	TCP		Default for YSFlight server[223]	Unofficial
7935	TCP		Fixed port used for Adobe Flash Debug Player to communicate with a debugger (Flash IDE, Flex Builder or fdb).[224]	Unofficial
7946	Yes	Yes	Docker Swarm communication among nodes[138]	Unofficial
7990	TCP		Atlassian Bitbucket (default port)	Unofficial
8000	TCP		Commonly used for Internet radio streams such as SHOUTcast, Icecast and iTunes Radio[9]	Unofficial
8000	?	?	DynamoDB Local[225]	Unofficial

Port	TCP	UDP	Description	IANA status[1]
8000	?	?	Django Development Webserver[226]	Unofficial
8005	TCP		Tomcat remote shutdown[9]	Unofficial
8006	TCP		Quest AppAssure 5 API[227]	Unofficial
8007	TCP		Quest AppAssure 5 Engine[227]	Unofficial
8008	TCP	UDP	Alternative port for HTTP. See also ports 80 and 8080.	Official
8008	TCP		IBM HTTP Server administration default	Unofficial
8008	TCP		iCal, a calendar application by Apple[9]	Unofficial
8009	TCP		Apache JServ Protocol (`ajp13`)	Unofficial
8042	?	?	Orthanc – REST API over HTTP[167]	Unofficial
8069	TCP		OpenERP 5.0 XML-RPC protocol[228]	Unofficial
8070	TCP		OpenERP 5.0 NET-RPC protocol[228]	Unofficial
8074	TCP	UDP	Gadu-Gadu	Official
8075	TCP		*Killing Floor* web administration interface	Unofficial
8080	TCP	UDP	Alternative port for HTTP. See also ports 80 and 8008.	Official
8080	TCP		Apache Tomcat	Unofficial
8080	TCP		Atlassian JIRA applications[229]	Unofficial
8088	TCP		Asterisk management access via HTTP	Unofficial
8089	Yes	No	Splunk daemon management[230]	Unofficial
8089	TCP		Fritz!Box automatic TR-069 configuration[231]	Unofficial
8090	?	?	Atlassian Confluence[232]	Unofficial
8090	TCP		Coral Content Distribution Network (legacy; 80 and 8080 now supported)[233]	Unofficial
8091	?	?	CouchBase web administration[234]	Unofficial
8092	?	?	CouchBase API[234]	Unofficial
8111	TCP		JOSM Remote Control	Unofficial
8112	TCP		PAC Pacifica Coin	Unofficial
8116		UDP	Check Point Cluster Control Protocol	Unofficial
8118	TCP		Privoxy—advertisement-filtering Web proxy	Official
8123	TCP		Polipo Web proxy	Official
8139	TCP		Puppet (software) Client agent	Unofficial
8140	TCP		Puppet (software) Master server	Official
8172	TCP		Microsoft Remote Administration for IIS Manager[235]	Unofficial
8184	TCP		NCSA Brown Dog Data Access Proxy	Unofficial
8194–8195	?	?	Bloomberg Terminal[236]	Official

Port	TCP	UDP	Description	IANA status[1]
8200	TCP		GoToMyPC	Unofficial
8200	TCP		MiniDLNA media server Web Interface	
8222	?	?	VMware VI Web Access via HTTP[237]	Unofficial
8243	TCP	UDP	HTTPS listener for Apache Synapse[238]	Official
8245	TCP		Dynamic DNS for at least No-IP and DyDNS[239]	Unofficial
8280	TCP	UDP	HTTP listener for Apache Synapse[238]	Official
8281	TCP		HTTP Listener for Gatecraft Plugin	Unofficial
8291	TCP		Winbox—Default on a MikroTik RouterOS for a Windows application used to administer MikroTik RouterOS[240]	Unofficial
8303		UDP	Teeworlds Server	Unofficial
8332	TCP		Bitcoin JSON-RPC server[241]	Unofficial
8333	TCP		Bitcoin[242]	Unofficial
8333	?	?	VMware VI Web Access via HTTPS[237]	Unofficial
8337	TCP		VisualSVN Distributed File System Service (VDFS)[243]	Unofficial
8384	TCP		Syncthing web GUI	Unofficial
8388	TCP		Shadowsocks proxy server	Unofficial
8443	TCP		SW Soft Plesk Control Panel	Unofficial
8443	TCP		Apache Tomcat SSL	Unofficial
8443	TCP		Promise WebPAM SSL	Unofficial
8443	TCP		iCal over SSL[9]	Unofficial
8444	TCP		Bitmessage	Unofficial
8484	TCP		MapleStory Login Server	Unofficial
8500	TCP		Adobe ColdFusion built-in web server[244]	Unofficial
8530	?	?	Windows Server Update Services over HTTP[245][246]	Unofficial
8531	?	?	Windows Server Update Services over HTTPS[246][245]	Unofficial
8580	?	?	Freegate, an Internet anonymizer and proxy tool[247]	Unofficial
8629	TCP		Tibero database	Unofficial
8642	TCP		Lotus Notes Traveler auto synchronization for Windows Mobile and Nokia devices[248]	Unofficial
8691	TCP		Ultra Fractal, a fractal generation and rendering software application – distributed calculations over networked computers[249][250]	Unofficial
8767		UDP	Voice channel of TeamSpeak 2,[251] a proprietary Voice over IP protocol targeted at gamers	Unofficial
8834	?	?	Nessus, a vulnerability scanner – remote XML-RPC web server[252]	Unofficial
8840	?	?	Opera Unite, an extensible framework for web applications[253][254]	Unofficial

Port	TCP	UDP	Description	IANA status[1]
8880	TCP		Alternate port of CDDB (Compact Disc Database) protocol, used to look up audio CD (compact disc) information over the Internet.[255] See also port 888.	Official
8880	?	?	IBM WebSphere Application Server SOAP connector[256]	Unofficial
8883	TCP	UDP	Secure MQTT (MQTT over TLS)[257][258]	Official
8887	?	?	HyperVM over HTTP	Unofficial
8888	?	?	HyperVM over HTTPS	Unofficial
8888	?	UDP	Freenet web UI (localhost only)	Unofficial
8888	?	?	Default for IPython[259] / Jupyter[260] notebook dashboards	Unofficial
8888	?	?	MAMP[261]	Unofficial
8889	?	?	MAMP[261]	Unofficial
8983	?	?	Apache Solr[262]	Unofficial
8997	?	?	Alternate port for I2P Monotone Proxy[147]	Unofficial
8998	?	?	I2P Monotone Proxy[147]	Unofficial
8999	?	?	Alternate port for I2P Monotone Proxy[147]	Unofficial
9000	TCP		SonarQube Web Server[263]	Unofficial
9000	TCP		DBGp	Unofficial
9000	TCP		SqueezeCenter web server & streaming	Unofficial
9000		UDP	UDPCast	Unofficial
9000	TCP		Play! Framework web server[264]	Unofficial
9000	TCP		Hadoop NameNode default port	Unofficial
9000	TCP		PHP-FPM default port	Unofficial
9000	TCP		QBittorrent's embedded torrent tracker default port[265]	Unofficial
9001	TCP	UDP	ETL Service Manager[266]	Official
9001			Microsoft SharePoint authoring environment	Unofficial
9001			cisco-xremote router configuration	Unofficial
9001			Tor network default	Unofficial
9001	TCP		DBGp Proxy	Unofficial
9001	TCP		HSQLDB default port	Unofficial
9002			Newforma Server comms	Unofficial
9006			De-Commissioned Port	Official
9006	TCP		Tomcat in standalone mode[9]	Unofficial
9030	TCP		Tor often used	Unofficial
9042	TCP		Apache Cassandra native protocol clients	Unofficial
9043	TCP		WebSphere Application Server Administration Console secure	Unofficial

Port	TCP	UDP	Description	IANA status[1]
9050–9051	TCP		Tor	Unofficial
9060	TCP		WebSphere Application Server Administration Console	Unofficial
9080	TCP	UDP	glrpc, Groove Collaboration software GLRPC	Official
9080	TCP		WebSphere Application Server HTTP Transport (port 1) default	Unofficial
9080	TCP		Remote Potato by FatAttitude, Windows Media Center addon	Unofficial
9080	TCP		ServerWMC, Windows Media Center addon	Unofficial
9090	TCP		Openfire Administration Console	Unofficial
9090	TCP		SqueezeCenter control (CLI)	Unofficial
9090	TCP		Cherokee Admin Panel	Unofficial
9091	TCP		Openfire Administration Console (SSL Secured)	Unofficial
9091	TCP		Transmission (BitTorrent client) Web Interface	Unofficial
9092	TCP		H2 (DBMS) Database Server	Unofficial
9092	TCP		Apache Kafka A Distributed Streaming Platform[267]	Unofficial
9100	TCP	Assigned	PDL Data Stream, used for printing to certain network printers[9]	Official
9101	TCP	UDP	Bacula Director	Official
9102	TCP	UDP	Bacula File Daemon	Official
9103	TCP	UDP	Bacula Storage Daemon	Official
9119	TCP	UDP	MXit Instant Messenger	Official
9150	TCP		Tor	Unofficial
9191	TCP		Sierra Wireless Airlink	Unofficial
9199	TCP		Avtex LLC—qStats	Unofficial
9200	TCP		Elasticsearch[268]—default Elasticsearch port	Unofficial
9217	TCP		iPass Platform Service	Unofficial
9293	TCP		Sony PlayStation RemotePlay[269]	Unofficial
9300	TCP		IBM Cognos BI	Unofficial
9303		UDP	D-Link Shareport Share storage and MFP printers	Unofficial
9306	TCP		Sphinx Native API	Official
9309	TCP	UDP	Sony PlayStation Vita Host Collaboration WiFi Data Transfer[270]	Unofficial
9312	TCP		Sphinx SphinxQL	Official
9332	TCP		Litecoin JSON-RPC server	Unofficial
9333	TCP		Litecoin	Unofficial
9339	TCP		Clash of Clans, a mobile freemium strategy video game	Unofficial
9389	TCP	UDP	adws, Microsoft AD DS Web Services, Powershell uses this port	Official
9418	TCP	UDP	git, Git pack transfer service	Official
9419	TCP		MooseFS distributed file system – master control port[271]	Unofficial

Port	TCP	UDP	Description	IANA status[1]
9420	TCP		MooseFS distributed file system – master command port[271]	Unofficial
9421	TCP		MooseFS distributed file system – master client port[271]	Unofficial
9422	TCP		MooseFS distributed file system – Chunkservers[271]	Unofficial
9425	TCP		MooseFS distributed file system – CGI server[271]	Unofficial
9443	TCP		VMware Websense Triton console (HTTPS port used for accessing and administrating a vCenter Server via the Web Management Interface)	Unofficial
9443	TCP		NCSA Brown Dog Data Tilling Service	Unofficial
9535	TCP	UDP	mngsuite, LANDesk Management Suite Remote Control	Official
9536	TCP	UDP	laes-bf, IP Fabrics Surveillance buffering function	Official
9600	No	Yes	Factory Interface Network Service (FINS), a network protocol used by Omron programmable logic controllers	Unofficial
9675	TCP	UDP	Spiceworks Desktop, IT Helpdesk Software	Unofficial
9676	TCP	UDP	Spiceworks Desktop, IT Helpdesk Software	Unofficial
9695	?	?	Content centric networking (CCN, CCNx)	Official
9785	TCP	UDP	Viber[169]	Unofficial
9800	TCP	UDP	WebDAV Source	Official
9800			WebCT e-learning portal	Unofficial
9875	TCP		Club Penguin Disney online game for kids	Unofficial
9898	TCP		Tripwire—File Integrity Monitoring Software[272]	Unofficial
9899		UDP	SCTP tunneling (port number used in SCTP packets encapsulated in UDP, RFC 6951)	Official
9981	TCP		TVHeadend HTTP server (web interface)[273]	Unofficial
9982	TCP		TVHeadend HTSP server (Streaming protocol)[273]	Unofficial
9987		UDP	TeamSpeak 3 server default (voice) port (for the conflicting service see the IANA list)	Unofficial
9993		UDP	ZeroTier Default port for ZeroTier	Unofficial
9997	TCP		Splunk port for communication between the forwarders and indexers	Unofficial
9999			Urchin Web Analytics	Unofficial
10000	TCP	UDP	Network Data Management Protocol	Official
10000			BackupExec	Unofficial
10000			Webmin, Web-based Unix/Linux system administration tool (default port)	Unofficial
10000–20000	No	Yes	Used on VoIP networks for receiving and transmitting voice telephony traffic which includes Google Voice via the OBiTalk ATA devices as well as on the MagicJack and Vonage ATA network devices.[274]	Unofficial
10001		UDP	Ubiquiti UniFi access points broadcast to 255.255.255.255:10001 (UDP) to locate the controller(s)	Unofficial
10009	TCP	UDP	*CrossFire*, a multiplayer online First Person Shooter	Unofficial

Port	TCP	UDP	Description	IANA status[1]
10010	TCP		Open Object Rexx (ooRexx) rxapi daemon	Official
10024	TCP		Zimbra smtp [mta]—to amavis from postfix	Unofficial
10025	TCP		Zimbra smtp [mta]—back to postfix from amavis	Unofficial
10042	TCP		Mathoid server	Unofficial
10050	TCP	UDP	Zabbix agent	Official
10051	TCP	UDP	Zabbix trapper	Official
10080	TCP		Touhou fight games (Immaterial and Missing Power, Scarlet Weather Rhapsody, Hisoutensoku, Hopeless Masquerade and Urban Legend in Limbo)	Unofficial
10110	TCP	UDP	NMEA 0183 Navigational Data. Transport of NMEA 0183 sentences over TCP or UDP	Official
10172	TCP		Intuit Quickbooks client	Unofficial
10200	TCP		FRISK Software International's *fpscand* virus scanning daemon for Unix platforms[275]	Unofficial
10200	TCP		FRISK Software International's *f-protd* virus scanning daemon for Unix platforms[276]	Unofficial
10201–10204	TCP		FRISK Software International's *f-protd* virus scanning daemon for Unix platforms[276]	Unofficial
10212	TCP		GE Intelligent Platforms Proficy HMI/SCADA – CIMPLICITY WebView[277]	Official
10308	?	?	*Lock On: Modern Air Combat*	Unofficial
10480	?	?	*SWAT 4* Dedicated Server	Unofficial
10505		UDP	BlueStacks (android simulator) broadcast[278]	Unofficial
10514	TCP	UDP	TLS-enabled Rsyslog (default by convention)	Unofficial
10823		UDP	*Farming Simulator 2011*	Unofficial
10891	TCP		Jungle Disk (this port is opened by the Jungle Disk Monitor service on the localhost)	Unofficial
10933	TCP		Listen port used by the Octopus Deploy Tentacle deployment agent[279][280]	Official
11001	TCP	UDP	metasys (Johnson Controls Metasys java AC control environment)	Official
11111	TCP		RiCcl, Remote Configuration Interface (Redhat Linux)	Unofficial
11112	TCP	UDP	ACR/NEMA Digital Imaging and Communications in Medicine (DICOM)	Official
11211	TCP	UDP	memcached[9]	Unofficial
11214	TCP	UDP	memcached incoming SSL proxy	Unofficial
11215	TCP	UDP	memcached internal outgoing SSL proxy	Unofficial
11235			*Savage: Battle for Newerth*	Unofficial
11311	TCP	UDP	Robot Operating System master	Unofficial
11371	TCP	UDP	OpenPGP HTTP key server	Official

Port	TCP	UDP	Description	IANA status[1]
11753	TCP		OpenRCT2 multiplayer[281]	Unofficial
12012		UDP	Audition Online Dance Battle, Korea Server—Status/Version Check	Unofficial
12013	TCP	UDP	Audition Online Dance Battle, Korea Server	Unofficial
12035		UDP	*Second Life*, used for server UDP in-bound[282]	Unofficial
12043	TCP		*Second Life*, used for LSL HTTPS in-bound[283]	Unofficial
12046	TCP		*Second Life*, used for LSL HTTP in-bound[283]	Unofficial
12201	Yes	Yes	Graylog Extended Log Format (GELF)[284]	Unofficial
12222		UDP	Light Weight Access Point Protocol (LWAPP) LWAPP data (RFC 5412)	Official
12223		UDP	Light Weight Access Point Protocol (LWAPP) LWAPP control (RFC 5412)	Official
12345	TCP	UDP	*Cube World*[285]	Unofficial
12345	TCP		*Little Fighter 2*	Unofficial
12345			NetBus remote administration tool (often Trojan horse).	Unofficial
12443	TCP		IBM HMC web browser management access over HTTPS instead of default port 443[286]	Unofficial
12489	TCP		NSClient/NSClient++/NC_Net (Nagios)	Unofficial
12975	TCP		LogMeIn Hamachi (VPN tunnel software; also port 32976)—used to connect to Mediation Server (bibi.hamachi.cc); will attempt to use SSL (TCP port 443) if both 12975 & 32976 fail to connect	Unofficial
13000–13050		UDP	*Second Life*, used for server UDP in-bound[282]	Unofficial
13008	TCP	UDP	*CrossFire*, a multiplayer online First Person Shooter	Unofficial
13075	TCP		Default[287] for BMC Software Control-M/Enterprise Manager Corba communication, though often changed during installation	Official
13720	TCP	UDP	Symantec NetBackup—bprd (formerly VERITAS)	Official
13721	TCP	UDP	Symantec NetBackup—bpdbm (formerly VERITAS)	Official
13724	TCP	UDP	Symantec Network Utility—vnetd (formerly VERITAS)	Official
13782	TCP	UDP	Symantec NetBackup—bpcd (formerly VERITAS)	Official
13783	TCP	UDP	Symantec VOPIED protocol (formerly VERITAS)	Official
13785	TCP	UDP	Symantec NetBackup Database—nbdb (formerly VERITAS)	Official
13786	TCP	UDP	Symantec nomdb (formerly VERITAS)	Official
14550		UDP	MAVLink	Unofficial
14567		UDP	Battlefield 1942 and mods	Unofficial
15000	TCP		psyBNC	Unofficial
15000	TCP		Wesnoth	Unofficial
15000	TCP		Kaspersky Network Agent	Unofficial
15441	?	?	ZeroNet fileserver	Unofficial

Port	TCP	UDP	Description	IANA status[1]
15567		UDP	*Battlefield Vietnam* and mods	Unofficial
15345	TCP	UDP	*XPilot* Contact	Official
15672	Yes	No	RabbitMQ management plugin[288]	Unofficial
16000	TCP		Oracle WebCenter Content: Imaging (formerly known as Oracle Universal Content Management). Port though often changed during installation	Unofficial
16000	TCP		shroudBNC	Unofficial
16080	TCP		Mac OS X Server Web (HTTP) service with performance cache[289]	Unofficial
16200	TCP		Oracle WebCenter Content: Content Server (formerly known as Oracle Universal Content Management). Port though often changed during installation	Unofficial
16225	TCP		Oracle WebCenter Content: Content Server Web UI. Port though often changed during installation	Unofficial
16250	TCP		Oracle WebCenter Content: Inbound Refinery (formerly known as Oracle Universal Content Management). Port though often changed during installation	Unofficial
16261	TCP	UDP	*Project Zomboid* multiplayer. Additional sequential ports used for each player connecting to server.	Unofficial
16300	TCP		Oracle WebCenter Content: Records Management (formerly known as Oracle Universal Records Management). Port though often changed during installation	Unofficial
16384		UDP	CISCO Default RTP MIN	Unofficial
16384-16387		UDP	Real-time Transport Protocol (RTP), RTP Control Protocol (RTCP), used by Apple's iChat for audio and video[9]	Unofficial
16384-16387		UDP	Real-time Transport Protocol (RTP), RTP Control Protocol (RTCP), used by Apple's FaceTime and Game Center[9]	Unofficial
16393-16402		UDP	Real-time Transport Protocol (RTP), RTP Control Protocol (RTCP), used by Apple's FaceTime and Game Center[9]	Unofficial
16403-16472		UDP	Real-time Transport Protocol (RTP), RTP Control Protocol (RTCP), used by Apple's Game Center[9]	Unofficial
16400	TCP		Oracle WebCenter Content: Capture (formerly known as Oracle Document Capture). Port though often changed during installation	Unofficial
16482			CISCO Default RTP MAX	Official
16567		UDP	Battlefield 2 and mods	Unofficial
17011	TCP		Worms multiplayer	Unofficial
17500	TCP	UDP	Dropbox LanSync Protocol (db-lsp); used to synchronize file catalogs between Dropbox clients on a local network.	Official
18091	TCP	UDP	memcached Internal REST HTTPS for SSL	Unofficial
18092	TCP	UDP	memcached Internal CAPI HTTPS for SSL	Unofficial
18104	TCP		RAD PDF Service	Official
18200	TCP	UDP	Audition Online Dance Battle, AsiaSoft Thailand Server status/version check	Unofficial

Port	TCP	UDP	Description	IANA status[1]
18201	TCP	UDP	Audition Online Dance Battle, AsiaSoft Thailand Server	Unofficial
18206	TCP	UDP	Audition Online Dance Battle, AsiaSoft Thailand Server FAM database	Unofficial
18300	TCP	UDP	Audition Online Dance Battle, AsiaSoft SEA Server status/version check	Unofficial
18301	TCP	UDP	Audition Online Dance Battle, AsiaSoft SEA Server	Unofficial
18306	TCP	UDP	Audition Online Dance Battle, AsiaSoft SEA Server FAM database	Unofficial
18333	TCP		Bitcoin testnet[242]	Unofficial
18400	TCP	UDP	Audition Online Dance Battle, KAIZEN Brazil Server status/version check	Unofficial
18401	TCP	UDP	Audition Online Dance Battle, KAIZEN Brazil Server	Unofficial
18505	TCP	UDP	Audition Online Dance Battle R4p3 Server, Nexon Server status/version check	Unofficial
18506	TCP	UDP	Audition Online Dance Battle, Nexon Server	Unofficial
18605	TCP	UDP	X-BEAT status/version check	Unofficial
18606	TCP	UDP	X-BEAT	Unofficial
19000	TCP	UDP	Audition Online Dance Battle, G10/alaplaya Server status/version check	Unofficial
19000		UDP	JACK sound server	Unofficial
19001	TCP	UDP	Audition Online Dance Battle, G10/alaplaya Server	Unofficial
19132		UDP	*Minecraft: Pocket Edition* multiplayer server	Unofficial
19150	TCP	UDP	Gkrellm Server	Unofficial
19226	TCP		Panda Software AdminSecure Communication Agent	Unofficial
19294	TCP		Google Talk Voice and Video connections[290]	Unofficial
19295		UDP	Google Talk Voice and Video connections[290]	Unofficial
19302		UDP	Google Talk Voice and Video connections[290]	Unofficial
19812	Yes	No	4D database SQL Communication[291]	Official
19813	TCP	UDP	4D database Client Server Communication[291]	Official
19814	TCP		4D database DB4D Communication[291]	Official
19999			Distributed Network Protocol—Secure (DNP—Secure), a secure version of the protocol used in SCADA systems between communicating RTU's and IED's	Official
20000			Distributed Network Protocol (DNP), a protocol used in SCADA systems between communicating RTU's and IED's	Official
20000			Usermin, Web-based Unix/Linux user administration tool (default port)	Unofficial
20000		UDP	Used on VoIP networks for receiving and transmitting voice telephony traffic which includes Google Voice via the OBiTalk ATA devices as well as on the MagicJack and Vonage ATA network devices.[274]	Unofficial
20560	TCP	UDP	*Killing Floor*	Unofficial

Port	TCP	UDP	Description	IANA status[1]
20595		UDP	*0 A.D. Empires Ascendant*	Unofficial
20808		UDP	Ableton Link	Unofficial
21025	TCP		Starbound Server (default), Starbound (http://playstarbound.com/)	Unofficial
22000	TCP		Syncthing (default)	Unofficial
22136	TCP		FLIR Systems (http://www.flir.com/) Camera Resource Protocol	Unofficial
22222	TCP		Davis Instruments, WeatherLink IP (http://davisnet.com/weather/products/weather_product.asp?pnum=06555)	Unofficial
23073			Soldat Dedicated Server	Unofficial
23399			Skype default protocol	Unofficial
23513	?	?	*Duke Nukem 3D* source ports	Unofficial
24441	TCP	UDP	Pyzor spam detection network	Unofficial
24444			NetBeans integrated development environment	Unofficial
24465	TCP	UDP	Tonido Directory Server for Tonido (http://www.tonido.com/) which is a Personal Web App and P2P platform	Official
24554	TCP	UDP	BINKP, Fidonet mail transfers over TCP/IP	Official
24800			Synergy: keyboard/mouse sharing software	Unofficial
24842			*StepMania: Online*: *Dance Dance Revolution* Simulator	Unofficial
25565	TCP		*Minecraft* multiplayer server[292][293]	Unofficial
25565		UDP	*Minecraft* multiplayer server query[294]	Unofficial
25575		UDP	*Minecraft* multiplayer server RCON[295]	Unofficial
25826		UDP	collectd default port[296]	Unofficial
26000	TCP	UDP	id Software's *Quake* server	Official
26000	TCP		*EVE Online*	Unofficial
26000		UDP	*Xonotic*, an open source arena shooter	Unofficial
26900–26901	TCP		*EVE Online*	Unofficial
27000–27015	No	Yes	Steam (game client traffic)[297]	Unofficial
27000–27006		UDP	id Software's *QuakeWorld* master server	Unofficial
27000	TCP		PowerBuilder *SySAM* license server	Unofficial
27000–27009	TCP	UDP	FlexNet Publisher's License server (from the range of default ports)	Official
27015–27030	No	Yes	Steam (matchmaking and HLTV)[297]	Unofficial
	Yes	Yes	Steam (downloads)[297]	Unofficial
27015	No	Yes	GoldSrc and Source engine dedicated server port[297]	Unofficial
		UDP	*Unturned*, multiplayer survival video game	Unofficial
27016			*Magicka* server port	Unofficial

Port	TCP	UDP	Description	IANA status[1]
27017	Yes	No	MongoDB daemon process (`mongod`) and routing service (`mongos`)[298]	Unofficial
27031	Ports 27036 & 27037	Yes	Steam (In-Home Streaming)[297]	Unofficial
27036	Yes	Yes	Steam (In-Home Streaming)[297]	Unofficial
27037	Yes	Ports 27031 & 27036	Steam (In-Home Streaming)[297]	Unofficial
27374			Sub7 default.	Unofficial
27500–27900		UDP	id Software's *QuakeWorld*	Unofficial
27888		UDP	Kaillera server	Unofficial
27901–27910		UDP	id Software's *Quake II* master server	Unofficial
27950		UDP	*OpenArena* outgoing	Unofficial
27960–27969		UDP	Activision's *Enemy Territory* and id Software's *Quake III Arena*, *Quake III* and *Quake Live* and some ioquake3 derived games, such as *Urban Terror* (*OpenArena* incoming)	Unofficial
28001			*Starsiege: Tribes*	Unofficial
28015		UDP	*Rust* (video game)[299]	Unofficial
28770–28771		UDP	*AssaultCube Reloaded*, a video game based upon a modification of *AssaultCube*	Unofficial
28785–28786		UDP	*Cube 2: Sauerbraten*[300]	Unofficial
28852	TCP	UDP	*Killing Floor*	Unofficial
28910	TCP	UDP	Nintendo Wi-Fi Connection[301]	Unofficial
28960	TCP	UDP	*Call of Duty*; *Call of Duty: United Offensive*; *Call of Duty 2*; *Call of Duty 4: Modern Warfare*; *Call of Duty: World at War* (PC platform)[302]	Unofficial
29000	?	?	*Perfect World*, an adventure and fantasy MMORPG	Unofficial
29070	TCP	UDP	*Jedi Knight: Jedi Academy* by Ravensoft	Unofficial
29900–29901	TCP	UDP	Nintendo Wi-Fi Connection[301]	Unofficial
29920	TCP	UDP	Nintendo Wi-Fi Connection[301]	Unofficial
30564	TCP		Multiplicity: keyboard/mouse/clipboard sharing software	Unofficial
31337	TCP		Back Orifice and Back Orifice 2000 remote administration tools[303][304]	Unofficial
31416	?	?	BOINC RPC[305]	Unofficial
31438	TCP		Rocket U2[306]	Unofficial
31457	TCP		*TetriNET*	Official
32137	TCP	UDP	Immunet Protect (UDP in version 2.0,[307] TCP since version 3.0[308])	Unofficial

Port	TCP	UDP	Description	IANA status[1]
32400	TCP		Plex Media Server[309]	Official
32764	TCP		A backdoor found on certain Linksys, Netgear and other wireless DSL modems/combination routers[310]	Unofficial
32887	TCP		*Ace of Spades*, a multiplayer FPS video game	Unofficial
32976	TCP		LogMeIn Hamachi, a VPN application; also TCP port 12975 and SSL (TCP 443).[311]	Unofficial
33434	TCP	UDP	traceroute	Official
33848		UDP	Jenkins, a continuous integration (CI) tool[312][313]	Unofficial
34000		UDP	*Infestation: Survivor Stories* (formerly known as *The War Z*), a multiplayer zombie video game	Unofficial
34197	No	Yes	*Factorio*, a multiplayer survival and factory-building game	Unofficial
35357	TCP		OpenStack Identity (Keystone) administration[314]	Official
37008		UDP	TZSP intrusion detection	Unofficial
40000	TCP	UDP	SafetyNET p – a real-time Industrial Ethernet protocol	Official
43110	TCP		ZeroNet web UI default port	Unofficial
43594–43595	?	?	*RuneScape*[315]	Unofficial
44405	TCP		*Mu Online* Connect Server	Unofficial
44818	TCP	UDP	EtherNet/IP explicit messaging	Official
47001	TCP		Windows Remote Management Service (WinRM)[316]	Official
47808	TCP	UDP	BACnet Building Automation and Control Networks (47808_{10} = $BAC0_{16}$)	Official
49151	TCP	UDP	Reserved[1]	Official

Dynamic, private or ephemeral ports

The range 49152–65535 ($2^{15} + 2^{14}$ to $2^{16} - 1$) contains dynamic or private ports that cannot be registered with IANA.[317] This range is used for private or customized services, for temporary purposes, and for automatic allocation of ephemeral ports.

Dynamic, private or ephemeral ports

Port	TCP	UDP	Description
49152–65535	Yes	No	Certificate Management over CMS[318]
60000–61000	Port 22	Yes	Range from which Mosh – a remote-terminal application similar to SSH – typically assigns ports for ongoing sessions between Mosh servers and Mosh clients.[319]
64738	Yes	Yes	Mumble

See also

- Internet protocol suite
- List of IP protocol numbers
- Lists of network protocols
- Comparison of file transfer protocols

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Further reading

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External links

- "Service Name and Transport Protocol Port Number Registry" (https://www.iana.org/assignments/service-names-port-numbers/). *IANA.org*. Internet Assigned Numbers Authority.

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