



List of TCP and UDP port numbers

This is a **list of TCP and UDP port numbers** used by protocols for operation of network applications. The Transmission Control Protocol (TCP) and the User Datagram Protocol (UDP) only need one port for bidirectional traffic. TCP usually uses port numbers that match the services of the corresponding UDP implementations, if they exist, and vice versa.

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.

Table legend

Legend of TCP and UDP table cells for port numbers

Cell	Description
Yes	Described protocol <i>is</i> assigned by IANA for this port, and <i>is</i> : standardized, specified, or widely used for such.
Unofficial	Described protocol <i>is not</i> assigned by IANA for this port, but <i>is</i> : standardized, specified, or widely used for such.
Assigned	Described protocol <i>is</i> assigned by IANA for this port, ^[2] but <i>is not</i> : standardized, specified, or widely used for such.
No	Described protocol <i>is not</i> assigned by IANA for this port, standardized, specified, or widely used for such.
Reserved	Port is reserved by IANA, ^[2] generally to prevent collision having its previous use removed. ^{[3][4]} The port number may be available for assignment upon request to IANA. ^[3]

Well-known ports

The port numbers in the range from 0 to 1023 (0 to $2^{10} - 1$) are the *well-known ports* or *system ports*.^[3] 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.^[5]

Well-known ports

Port	TCP	UDP	SCTP	DCCP	Description
0	Reserved				In programming APIs (not in communication between hosts), requests a system-allocated (dynamic) port ^[6]
1	Yes	Assigned			TCP Port Service Multiplexer (TCPMUX). Historic. Both TCP and UDP have been assigned to TCPMUX by IANA, ^[2] but by design only TCP is specified. ^[7]
2	Assigned				compressnet (Management Utility) ^[3]
3	Assigned				compressnet (Compression Process) ^[3]
5	Assigned				Remote Job Entry ^[8] was historically using socket 5 in its old socket form, while MIB PIM has identified it as TCP/5 ^[9] and IANA has assigned both TCP and UDP 5 to it.
7	Yes				Echo Protocol ^{[10][11]}
9	Yes		Yes ^[12]	Assigned	Discard Protocol ^[13]
	No	Unofficial			Wake-on-LAN ^[14]
11	Yes				Active Users (<u>systat</u> service) ^{[15][16]}
13	Yes				Daytime Protocol ^[17]
15	Unofficial	No			Previously <u>netstat</u> service ^{[2][15]}
17	Yes				Quote of the Day (QOTD) ^[18]
18	Yes				Message Send Protocol ^{[19][20]}
19	Yes				Character Generator Protocol (CHARGEN) ^[21]
20	Yes	Assigned	Yes ^[12]		File Transfer Protocol (FTP) data transfer ^[11]
21	Yes	Assigned	Yes ^[12]		File Transfer Protocol (FTP) control (command) ^{[11][12][22][23]}
22	Yes	Assigned	Yes ^[12]		Secure Shell (SSH), ^[11] secure logins, <u>file transfers</u> (<u>scp</u> , <u>sftp</u>) and port forwarding
23	Yes	Assigned			Telnet protocol—unencrypted text communications ^{[11][24]}
25	Yes	Assigned			Simple Mail Transfer Protocol (SMTP), ^{[11][25]} used for email routing between mail servers
27	Assigned				nsw-fe (NSW User System FE) ^{[3][26]}

Port	TCP	UDP	SCTP	DCCP	Description
28	Unofficial				Palo Alto Networks' Panorama High Availability (HA) sync encrypted port. ^[27]
29	Assigned				msg-icp (MSG ICP) ^[3]
31	Assigned				msg-auth (MSG Authentication) ^[3]
33	Assigned				dsp (Display Support Protocol) ^[3]
37	Yes				Time Protocol ^[28]
38	Assigned				rap (Route Access Protocol) ^[3]
39	Assigned				rlp (Resource Location Protocol) ^[3]
41	Assigned				graphics (Graphics) ^[3]
42	Assigned	Yes			Host Name Server Protocol ^[29]
43	Yes	Assigned			WHOIS protocol ^{[30][31][32]}
44	Assigned				mpm-flags (MPM FLAGS Protocol) ^[3]
45	Assigned				mpm (Message Processing Module [recv]) ^[3]
46	Assigned				mpm-snd (MPM [default send]) ^[3]
47	Reserved				
48	Assigned				auditd (Digital Audit Daemon) ^[3]
49	Yes				TACACS Login Host protocol. ^[33] TACACS+, still in draft which is an improved but distinct version of TACACS, only uses TCP 49. ^[34]
50	Assigned				re-mail-ck (Remote Mail Checking Protocol) ^[3]
51	Reserved				Historically used for Interface Message Processor logical address management, ^[35] entry has been removed by IANA on 2013-05-25
52	Assigned				Xerox Network Systems (XNS) Time Protocol. Despite this port being assigned by IANA, the service is meant to work on SPP (ancestor of IPX/SPX), instead of TCP/IP. ^[36]
53	Yes				Domain Name System (DNS) ^{[37][11]}
54	Assigned				Xerox Network Systems (XNS) Clearinghouse (Name Server). Despite this port being assigned by IANA, the service is meant to work on SPP (ancestor of IPX/

Port	TCP	UDP	SCTP	DCCP	Description
					<u>SPX</u>), instead of TCP/IP. ^[36]
55	Assigned				isi-gl (ISI Graphics Language) ^[3]
56	Assigned				Xerox Network Systems (XNS) Authentication Protocol. Despite this port being assigned by IANA, the service is meant to work on <u>SPP</u> (ancestor of <u>IPX/SPX</u>), instead of TCP/IP. ^[36]
58	Assigned				Xerox Network Systems (XNS) Mail. Despite this port being assigned by IANA, the service is meant to work on <u>SPP</u> (ancestor of <u>IPX/SPX</u>), instead of TCP/IP. ^[36]
61	Reserved				Historically assigned to the <u>NIFTP-Based Mail</u> protocol, ^[38] but was never documented in the related <u>IEN</u> . ^[39] The port number entry was removed from IANA's registry on 2017-05-18. ^[2]
62	Assigned				acas (ACA Services) ^[3]
63	Assigned				whoispp (whois++) ^[3]
64	Assigned				covia (Communications Integrator (CI)) ^[3]
65	Assigned				tacacs-ds (TACACS-Database Service) ^[3]
66	Assigned				sql-net (Oracle SQL*NET) ^[3]
67	Assigned	Yes			<u>Bootstrap Protocol (BOOTP)</u> server; ^[11] also used by <u>Dynamic Host Configuration Protocol (DHCP)</u>
68	Assigned	Yes			<u>Bootstrap Protocol (BOOTP)</u> client; ^[11] also used by <u>Dynamic Host Configuration Protocol (DHCP)</u>
69	Assigned	Yes			<u>Trivial File Transfer Protocol (TFTP)</u> ^{[11][40][41][42]}
70	Yes	Assigned			<u>Gopher protocol</u> ^[43]
71–74	Yes				<u>NETRJS protocol</u> ^{[44][45][46]}
76	Assigned				deos (Distributed External Object Store) ^[3]
78	Assigned				vettcp (vettcp) ^[3]
79	Yes	Assigned			<u>Finger protocol</u> ^{[11][47][48]}
80	Yes		Yes ^[12]		<u>Hypertext Transfer Protocol (HTTP)</u> ^{[49][50]} uses TCP in versions 1.x and 2. <u>HTTP/3</u> uses <u>QUIC</u> , ^[51] a transport protocol on top of UDP.
81	Unofficial				<u>TorPark onion routing</u> ^[52]

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82	Assigned				xfer (XFER Utility) ^[3]
82		Unofficial			TorPark control ^[53]
83	Assigned				mit-ml-dev (MIT ML Device) ^[3]
84	Assigned				ctf (Common Trace Facility) ^[3]
85	Assigned				mit-ml-dev (MIT ML Device) ^[3]
86	Assigned				mfcobol (Micro Focus Cobol) ^[3]
88	Yes				Kerberos ^{[11][54][55]} authentication system
89	Assigned				su-mit-tg (SU/MIT Telnet Gateway) ^[3]
90	Assigned				dnsix (DNSIX Security Attribute Token Map) ^[3]
90	Unofficial				PointCast (dotcom) ^[2]
91	Assigned				mit-dov (MIT Dover Spooler) ^[3]
92	Assigned				npp (Network Printing Protocol) ^[3]
93	Assigned				dcp (Device Control Protocol) ^[3]
94	Assigned				objcall (Tivoli Object Dispatcher) ^[3]
95	Yes	Assigned			SUPDUP, terminal-independent remote login ^[56]
96	Assigned				dixie (DIXIE Protocol Specification) ^[3]
97	Assigned				swift-rvf (Swift Remote Virtual File Protocol) ^[3]
98	Assigned				tacnews (TAC News) ^[3]
99	Assigned				metagram (Metagram Relay) ^[3]
101	Yes	Assigned			NIC host name ^[57]
102	Yes	Assigned			ISO Transport Service Access Point (TSAP) Class 0 protocol; ^{[58][59]}
104	Yes				Digital Imaging and Communications in Medicine (DICOM; also port 11112)
105	Yes				CCSO Nameserver ^[60]
106	Unofficial	No			macOS Server, (macOS) password server ^[11]
107	Yes				Remote User Telnet Service (RTelnet) ^[61]

Port	TCP	UDP	SCTP	DCCP	Description
108	Yes				IBM <u>Systems Network Architecture</u> (SNA) gateway access server
109	Yes	Assigned			<u>Post Office Protocol</u> , version 2 (POP2) ^[62]
110	Yes	Assigned			<u>Post Office Protocol</u> , version 3 (POP3) ^{[11][63][64]}
111	Yes				<u>Open Network Computing Remote Procedure Call</u> (ONC RPC, sometimes referred to as Sun RPC)
112	Yes				<u>McIDAS Data Transmission Protocol</u>
113	Yes	No			<u>Ident</u> , authentication service/identification protocol, ^{[11][65]} used by IRC servers to identify users
	Yes	Assigned			<u>Authentication Service</u> (auth), the predecessor to <i>identification protocol</i> . Used to determine a user's identity of a particular TCP connection. ^[66]
115	Yes	Assigned			<u>Simple File Transfer Protocol</u> ^[67]
117	Yes				<u>UUCP Mapping Project</u> (path service) ^[68]
118	Yes				<u>Structured Query Language</u> (SQL) Services
119	Yes	Assigned			<u>Network News Transfer Protocol</u> (NNTP), ^[11] retrieval of newsgroup messages ^{[69][70]}
123	Assigned	Yes			<u>Network Time Protocol</u> (NTP), used for time synchronization ^[11]
126	Yes				Formerly <u>Unisys Unitary Login</u> , renamed by Unisys to NXEdit. Used by Unisys Programmer's Workbench for Clearpath MCP, an IDE for <u>Unisys MCP software development</u>
135	Yes				<u>DCE endpoint resolution</u>
	Yes				<u>Microsoft EPMAP</u> (End Point Mapper), also known as <u>DCE/RPC Locator service</u> , ^[71] used to remotely manage services including <u>DHCP server</u> , <u>DNS server</u> and <u>WINS</u> . Also used by <u>DCOM</u>
137	Yes				<u>NetBIOS Name Service</u> , used for name registration and resolution ^{[72][73]}
138	Assigned	Yes			<u>NetBIOS Datagram Service</u> ^{[11][72][73]}
139	Yes	Assigned			<u>NetBIOS Session Service</u> ^{[72][73]}

Port	TCP	UDP	SCTP	DCCP	Description
143	Yes	Assigned			Internet Message Access Protocol (IMAP), ^[11] management of <u>electronic mail</u> messages on a <u>server</u> ^[74]
151	Assigned				<u>HEMS</u>
152	Yes				<u>Background File Transfer Program (BFTP)</u> ^[75]
153	Yes				<u>Simple Gateway Monitoring Protocol (SGMP)</u> , a protocol for remote inspection and alteration of gateway management information ^[76]
156	Yes				<u>Structured Query Language (SQL) Service</u>
158	Yes				<u>Distributed Mail System Protocol (DMSP)</u> , sometimes referred to as <u>Pcmail</u> ^[77]
161	Assigned	Yes			<u>Simple Network Management Protocol (SNMP)</u> ^[68]
162	Yes				<u>Simple Network Management Protocol Trap (SNMPTRAP)</u> ^[68]
165	Assigned				<u>Xerox</u>
169	Assigned				<u>SEND</u>
170	Yes				<u>Network PostScript print server</u>
175	Yes				<u>VMNET</u> service using <u>NJE</u>
177	Yes				<u>X Display Manager Control Protocol (XDMCP)</u> , used for remote logins to an <u>X Display Manager</u> server ^[78]
179	Yes	Assigned	Yes ^[12]		<u>Border Gateway Protocol (BGP)</u> , ^[79] used to exchange <u>routing and reachability</u> information among <u>autonomous systems (AS)</u> on the <u>Internet</u>
180	Assigned				<u>ris</u>
194	Yes				<u>Internet Relay Chat (IRC)</u> ^[80]
199	Yes				<u>SNMP Unix Multiplexer (SMUX)</u> ^[81]
201	Yes				<u>AppleTalk Routing Maintenance</u>
209	Yes	Assigned			<u>Quick Mail Transfer Protocol</u> ^[82]
210	Yes				<u>ANSI Z39.50</u>
213	Yes				<u>Internetwork Packet Exchange (IPX)</u>
218	Yes				<u>Message posting protocol (MPP)</u>

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220	Yes				<u>Internet Message Access Protocol (IMAP)</u> , version 3
225–241	Reserved				
249–255	Reserved				
259	Yes				<u>Efficient Short Remote Operations (ESRO)</u>
262	Yes				<u>Arcisdms</u>
264	Yes				<u>Border Gateway Multicast Protocol (BGMP)</u>
280	Yes				<u>http-mgmt</u>
300	Unofficial				<u>ThinLinc Web Access</u> , <u>Spartan protocol</u> ^[83]
308	Yes				<u>Novastor Online Backup</u>
311	Yes	Assigned			<u>macOS Server Admin</u> ^[11] (officially <u>AppleShare IP Web administration</u> ^[2])
312	Unofficial	No			<u>macOS Xsan administration</u> ^[11]
318	Yes				<u>PKIX Time Stamp Protocol (TSP)</u>
319		Yes			<u>Precision Time Protocol (PTP) event messages</u>
320		Yes			<u>Precision Time Protocol (PTP) general messages</u>
323	Yes				<u>Resource Public Key Infrastructure</u> ^[84]
350	Yes				<u>Mapping of Airline Traffic over Internet Protocol (MATIP) type A</u>
351	Yes				<u>MATIP type B</u>
356	Yes				<u>cloanto-net-1</u> (used by <u>Cloanto Amiga Explorer</u> and <u>VMs</u>)
366	Yes				<u>On-Demand Mail Relay (ODMR)</u>
369	Yes				<u>Rpc2portmap</u>
370	Yes				<u>codaauth2</u> , <u>Coda authentication server</u>
		Yes			<u>securecast1</u> , outgoing packets to <u>NAI's SecureCast servers</u> ^[85] As of 2000
371	Yes				<u>ClearCase albd</u>
376	Yes				<u>Amiga Envoy Network Inquiry Protocol</u>
383	Yes				<u>HP data alarm manager</u>

Port	TCP	UDP	SCTP	DCCP	Description
384	Yes				A Remote Network Server System
387	Yes				AURP (<u>AppleTalk Update-based Routing Protocol</u>) ^[86]
388	Yes	Assigned			Unidata LDM near real-time data distribution protocol ^{[87][88]}
389	Yes	Assigned			<u>Lightweight Directory Access Protocol (LDAP)</u> ^[11]
399	Yes				Digital Equipment Corporation <u>DECnet+ (Phase V) over TCP/IP (RFC1859)</u>
401	Yes				<u>Uninterruptible power supply (UPS)</u>
427	Yes				<u>Service Location Protocol (SLP)</u> ^[11]
433	Yes				NNTP, part of <u>Network News Transfer Protocol</u>
434	Yes				<u>Mobile IP Agent (RFC 5944)</u>
443	Yes		Yes ^[12]		<u>Hypertext Transfer Protocol Secure (HTTPS)</u> ^{[49][50]} uses TCP in versions 1.x and 2. <u>HTTP/3</u> uses QUIC, ^[51] a transport protocol on top of UDP.
444	Yes				<u>Simple Network Paging Protocol (SNPP)</u> , RFC 1568
445	Yes				Microsoft-DS (Directory Services) <u>Active Directory</u> , ^[89] Windows shares
	Yes	Assigned			Microsoft-DS (Directory Services) <u>SMB</u> ^[11] file sharing
464	Yes				Kpasswd: ^[90] <u>Kerberos Change/Set password</u>
465 ^[note 1]	Yes	No			<u>Message Submission over TLS protocol</u> ^{[91][92]}
	Yes	No			<u>URL Rendezvous Directory for Cisco SSM</u> ^[91]
475	Yes				tcpnethaspsrv, <u>Aladdin Knowledge Systems Hasp services</u>
476–490	Unofficial				Centro Software ERP ^[93] ports
491	Unofficial				<u>GO-Global remote access and application publishing software</u>
497	Yes				<u>Retrospect</u>
500	Assigned	Yes			<u>Internet Security Association and Key Management Protocol (ISAKMP)</u> / <u>Internet Key Exchange (IKE)</u> ^[11]
502	Yes				<u>Modbus Protocol</u>

Port	TCP	UDP	SCTP	DCCP	Description
504	Yes				<u>Citadel</u> , multiservice protocol for dedicated clients for the Citadel groupware system
510	Yes				FirstClass Protocol (FCP), used by <u>FirstClass</u> client/server groupware system
512	Yes				<u>Rexec</u> , Remote Process Execution
		Yes			comsat, together with <u>biff</u>
513	Yes				<u>rlogin</u>
		Yes			<u>Who</u> ^[68]
514	Unofficial				<u>Remote Shell</u> , used to execute non-interactive commands on a remote system (Remote Shell, rsh, remsh)
	No	Yes			<u>Syslog</u> , ^[11] used for system logging
515	Yes	Assigned			<u>Line Printer Daemon (LPD)</u> , ^[11] print service
517		Yes			<u>Talk</u>
518		Yes			NTalk
520	Yes				efs, extended file name server
		Yes			<u>Routing Information Protocol (RIP)</u>
521		Yes			<u>Routing Information Protocol Next Generation (RIPng)</u>
524	Yes				<u>NetWare Core Protocol (NCP)</u> is used for a variety things such as access to primary NetWare server resources, Time Synchronization, etc.
525		Yes			Timed, <u>Timeserver</u>
530	Yes				<u>Remote procedure call (RPC)</u>
532	Yes	Assigned			netnews ^[11]
533		Yes			netwall, for emergency broadcasts
540	Yes				Unix-to-Unix Copy Protocol (<u>UUCP</u>)
542	Yes				<u>commerce</u> (Commerce Applications)
543	Yes				klogin, <u>Kerberos</u> login
544	Yes				kshell, Kerberos Remote shell
546	Yes				<u>DHCPv6</u> client

Port	TCP	UDP	SCTP	DCCP	Description
547	Yes				DHCPv6 server
548	Yes	Assigned			<u>Apple Filing Protocol (AFP) over TCP</u> ^[11]
550	Yes				<u>new-rwho, new-who</u> ^[68]
554	Yes				<u>Real Time Streaming Protocol (RTSP)</u> ^[11]
556	Yes				<u>Remotefs, RFS, rfs_server</u>
560		Yes			<u>rmonitor, Remote Monitor</u>
561		Yes			<u>monitor</u>
563	Yes				<u>NNTP over TLS/SSL (NNTPS)</u>
564	Unofficial				<u>9P (Plan 9)</u>
585	No				Previously assigned for use of <u>Internet Message Access Protocol over TLS/SSL (IMAPS)</u> , now deregistered in favour of port 993. ^[94]
587	Yes	Assigned			<u>Email Message Submission</u> (No longer preferred; see port 465.) ^{[92][11][95]}
591	Yes				<u>FileMaker 6.0 (and later) Web Sharing (HTTP Alternate, also see port 80)</u>
593	Yes				<u>HTTP RPC Ep Map, Remote procedure call over Hypertext Transfer Protocol, often used by Distributed Component Object Model services and Microsoft Exchange Server</u>
601	Yes				<u>Reliable Syslog Service</u> – used for system logging
604	Yes				<u>TUNNEL profile</u> , ^[96] a protocol for <u>BEEP peers</u> to form an <u>application layer tunnel</u>
623		Yes			<u>ASF Remote Management and Control Protocol (ASF-RMCP) & IPMI Remote Management Protocol</u>
625	Unofficial	No			<u>Open Directory Proxy (ODProxy)</u> ^[11]
631	Yes				<u>Internet Printing Protocol (IPP)</u> ^[11]
	Unofficial				<u>Common Unix Printing System (CUPS) administration console (extension to IPP)</u>
635	Yes				<u>RLZ DBase</u>

Port	TCP	UDP	SCTP	DCCP	Description
636	Yes	Assigned			Lightweight Directory Access Protocol over TLS/SSL (LDAPS) ^[11]
639	Yes				Multicast Source Discovery Protocol , MSDP
641	Yes				SupportSoft Nexus Remote Command (control/listening), a proxy gateway connecting remote control traffic
643	Yes				SANity
646	Yes				Label Distribution Protocol (LDP) , a routing protocol used in MPLS networks
647	Yes				DHCP Failover protocol ^[97]
648	Yes				Registry Registrar Protocol (RRP) ^[98]
651	Yes				IEEE-MMS
653	Yes				SupportSoft Nexus Remote Command (data), a proxy gateway connecting remote control traffic
654	Yes				Media Management System (MMS) Media Management Protocol (MMP) ^[99]
655	Yes				Tinc VPN daemon
657	Yes				IBM RMC (Remote monitoring and Control) protocol , used by System p5 AIX Integrated Virtualization Manager (IVM) ^[100] and Hardware Management Console to connect managed logical partitions (LPAR) to enable dynamic partition reconfiguration
660	Yes	Assigned			macOS Server administration , ^[2] version 10.4 and earlier ^[11]
666	Yes				Doom , the first online first-person shooter
	Unofficial				airserv-ng , ^[101] aircrack-ng 's server for remote-controlling wireless devices
674	Yes				Application Configuration Access Protocol (ACAP)
684	Yes				CORBA IIOP SSL ^[102]
688	Yes				REALM-RUSD (ApplianceWare Server Appliance Management Protocol)
690	Yes				Velneo Application Transfer Protocol (VATP)

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691	Yes				<u>MS Exchange Routing</u>
694	Yes				<u>Linux-HA high-availability heartbeat</u>
695	Yes	Assigned			<u>IEEE Media Management System over SSL (IEEE-MMS-SSL)</u> ^[103]
698		Yes			<u>Optimized Link State Routing (OLSR)</u>
700	Yes				<u>Extensible Provisioning Protocol (EPP)</u> , a protocol for communication between <u>domain name registries</u> and <u>registrars</u> (RFC 5734)
701	Yes				<u>Link Management Protocol (LMP)</u> , ^[104] a protocol that runs between a pair of <u>nodes</u> and is used to manage <u>traffic engineering (TE) links</u>
702	Yes				<u>IRIS</u> ^{[105][106]} (<u>Internet Registry Information Service</u>) over <u>BEEP (Blocks Extensible Exchange Protocol)</u> ^[107] (RFC 3983)
706	Yes				<u>Secure Internet Live Conferencing (SILC)</u>
711	Yes				<u>Cisco Tag Distribution Protocol</u> ^{[108][109][110]} —being replaced by the <u>MPLS Label Distribution Protocol</u> ^[111]
712	Yes				<u>Topology Broadcast based on Reverse-Path Forwarding routing protocol (TBRPF; RFC 3684)</u>
749	Yes				<u>Kerberos administration</u> ^[11]
750		Yes			<u>kerberos-iv</u> , <u>Kerberos version IV</u>
751	Unofficial				<u>kerberos_master</u> , <u>Kerberos authentication</u>
752		Unofficial			<u>passwd_server</u> , <u>Kerberos password (kpasswd) server</u>
753	Yes				<u>Reverse Routing Header (RRH)</u> ^[112]
		Unofficial			<u>userreg_server</u> , <u>Kerberos userreg server</u>
754	Yes				<u>tell send</u>
	Unofficial				<u>krb5_prop</u> , <u>Kerberos v5 slave propagation</u>
760	Unofficial				<u>krbupdate [kreg]</u> , <u>Kerberos registration</u>
777	Unofficial				<u>machine socket eXtension [msx] protocol</u>
782	Unofficial				<u>Conserver serial-console management server</u>
783	Unofficial				<u>SpamAssassin spamd daemon</u>

Port	TCP	UDP	SCTP	DCCP	Description
800	Yes				mdb _s -daemon
802	Yes				MODBUS/TCP Security ^[113]
808	Unofficial				Microsoft Net.TCP Port Sharing Service
829	Yes	Assigned			Certificate Management Protocol ^[114]
830	Yes				NETCONF over SSH
831	Yes				NETCONF over BEEP
832	Yes				NETCONF for SOAP over HTTPS
833	Yes				NETCONF for SOAP over BEEP
843	Unofficial				Adobe Flash ^[115]
847	Yes				DHCP Failover protocol
848	Yes				Group Domain Of Interpretation (GDOI) protocol
853	Yes				DNS over TLS (RFC 7858)
		Yes			DNS over QUIC or DNS over DTLS ^[116]
860	Yes				iSCSI (RFC 3720)
861	Yes				OWAMP control (RFC 4656)
862	Yes				TWAMP control (RFC 5357)
873	Yes				rsync file synchronization protocol
888	Unofficial				cddbp, CD DataBase (CDDb) protocol (CDDBP)
	Unofficial				IBM Endpoint Manager Remote Control
897	Unofficial				Brocade SMI-S RPC
898	Unofficial				Brocade SMI-S RPC SSL
902	Unofficial				VMware ESXi ^{[117][118]}
903	Unofficial				VMware ESXi ^{[117][118]}
953	Yes	Reserved			BIND remote name daemon control (RNDC) ^{[119][120]}
981	Unofficial				Remote HTTPS management for firewall devices running embedded Check Point VPN-1 software ^[121]
987		Unofficial			Sony PlayStation Wake On Lan

Port	TCP	UDP	SCTP	DCCP	Description
	Unofficial				Microsoft Remote Web Workplace, a feature of Windows Small Business Server ^[122]
988	Unofficial				Lustre (file system) ^[123] Protocol (data).
989	Yes				FTPS Protocol (data), FTP over TLS/SSL
990	Yes				FTPS Protocol (control), FTP over TLS/SSL
991	Yes				Netnews Administration System (NAS) ^[124]
992	Yes				Telnet protocol over TLS/SSL
993	Yes	Assigned			Internet Message Access Protocol over TLS/SSL (IMAPS) ^[11]
994	Reserved				Previously assigned to Internet Relay Chat over TLS/SSL (IRCS), but was not used in common practice.
995	Yes				Post Office Protocol 3 over TLS/SSL (POP3S) ^[11]
1010	Unofficial				ThinLinc web-based administration interface ^[125]
1011–1020	Reserved				
1023	Reserved				^[2]
	Unofficial				z/OS Network File System (NFS) (potentially ports 991–1023) ^{[80][81][126]}

Registered ports

The range of port numbers from 1024 to 49151 (2^{10} to $2^{15} + 2^{14} - 1$) are the registered ports. They are assigned by IANA for specific service upon application by a requesting entity.^[2] On most systems, registered ports can be used without superuser privileges.