

# 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 [duplex](#), bidirectional traffic. 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.<sup>[1]</sup> 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.

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## Table legend

Legend of TCP and UDP protocol table cells for port numbers

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

## Well-known ports

This is a [dynamic list](#) and may never be able to satisfy particular standards for completeness. You can help by [adding missing items](#) with [reliable sources](#).

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

## Well-known ports

Port	TCP	UDP	SCTP	DCCP	Description
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Port	TCP	UDP	SCTP	DCCP	Description
	Reserved	Reserved			
0		N/A			In programming APIs (not in communication between hosts), requests a system-allocated (dynamic) port <sup>[6]</sup>
1	Yes	Assigned			<a href="#">TCP Port Service Multiplexer</a> (TCPMUX). Historic. Both TCP and UDP have been assigned to TCPMUX by IANA, <sup>[2]</sup> but by design only TCP is specified. <sup>[7]</sup>
5	Assigned	Assigned			<a href="#">Remote Job Entry</a> <sup>[8]</sup> was historically using socket 5 in its <a href="#">old socket form</a> , while <a href="#">MIB PIM</a> has identified it as TCP/5 <sup>[9]</sup> and IANA has assigned both TCP and UDP 5 to it.
7	Yes	Yes			<a href="#">Echo Protocol</a> <sup>[10][11]</sup>
9	Yes	Yes	Yes <sup>[12]</sup>		<a href="#">Discard Protocol</a> <sup>[13]</sup>
	No	Unofficial			<a href="#">Wake-on-LAN</a> <sup>[14]</sup>
11	Yes	Yes			Active Users ( <a href="#">sysstat</a> service) <sup>[15][16]</sup>
13	Yes	Yes			<a href="#">Daytime Protocol</a> <sup>[17]</sup>
15	Unofficial	No			Previously <a href="#">netstat</a> service <sup>[2][15]</sup>
17	Yes	Yes			<a href="#">Quote of the Day</a> (QOTD) <sup>[18]</sup>
18	Yes	Yes			<a href="#">Message Send Protocol</a> <sup>[19][20]</sup>
19	Yes	Yes			<a href="#">Character Generator Protocol</a> (CHARGEN) <sup>[21]</sup>
20	Yes	Assigned	Yes <sup>[12]</sup>		<a href="#">File Transfer Protocol</a> (FTP) data transfer <sup>[11]</sup>
21	Yes	Assigned	Yes <sup>[12]</sup>		<a href="#">File Transfer Protocol</a> (FTP) control (command) <sup>[11][12][22][23]</sup>
22	Yes	Assigned	Yes <sup>[12]</sup>		<a href="#">Secure Shell</a> (SSH), <sup>[11]</sup> secure logins, <a href="#">file transfers</a> ( <a href="#">scp</a> , <a href="#">sftp</a> ) and port forwarding
23	Yes	Assigned			<a href="#">Telnet</a> protocol—unencrypted text communications <sup>[11][24]</sup>
25	Yes	Assigned			<a href="#">Simple Mail Transfer Protocol</a> (SMTP), <sup>[11][25]</sup> used for email routing between mail servers
28	Unofficial				Palo Alto Networks' Panorama High Availability (HA) sync encrypted port. <sup>[26]</sup>
37	Yes	Yes			<a href="#">Time Protocol</a> <sup>[27]</sup>
42	Assigned	Yes			<a href="#">Host Name Server Protocol</a> <sup>[28]</sup>
43	Yes	Assigned			<a href="#">WHOIS</a> protocol <sup>[29][30][31]</sup>
47	Reserved	Reserved			
49	Yes	Yes			<a href="#">TACACS</a> Login Host protocol. <sup>[32]</sup> <a href="#">TACACS+</a> , still in draft which is an improved but distinct version of TACACS, only uses TCP 49. <sup>[33]</sup>
51	Reserved	Reserved			Historically used for <a href="#">Interface Message Processor</a> logical address management, <sup>[34]</sup> entry has been removed by IANA on 2013-05-25
52	Assigned	Assigned			<a href="#">Xerox Network Systems</a> (XNS) Time Protocol. Despite this port being assigned by IANA, the service is meant to work on <a href="#">SPP</a> (ancestor of <a href="#">IPX/SPX</a> ), instead of TCP/IP. <sup>[35]</sup>
53	Yes	Yes			<a href="#">Domain Name System</a> (DNS) <sup>[36][11]</sup>
54	Assigned	Assigned			Xerox Network Systems (XNS) Clearinghouse (Name Server). Despite this port being assigned by IANA, the service is meant to work on <a href="#">SPP</a> (ancestor of <a href="#">IPX/SPX</a> ), instead of TCP/IP. <sup>[35]</sup>
56	Assigned	Assigned			Xerox Network Systems (XNS) Authentication Protocol. Despite this port being assigned by IANA, the service is meant to work on <a href="#">SPP</a> (ancestor of <a href="#">IPX/SPX</a> ), instead of TCP/IP. <sup>[35]</sup>
58	Assigned	Assigned			Xerox Network Systems (XNS) Mail. Despite this port being assigned by IANA, the service is meant to work on <a href="#">SPP</a> (ancestor of <a href="#">IPX/SPX</a> ), instead of TCP/IP. <sup>[35]</sup>
61	Reserved	Reserved			Historically assigned to the <a href="#">NIFTP-Based Mail</a> protocol, <sup>[37]</sup> but was never documented in the related <a href="#">IEN</a> . <sup>[38]</sup> The port number entry was removed from IANA's registry on 2017-05-18. <sup>[2]</sup>
67	Assigned	Yes			<a href="#">Bootstrap Protocol</a> (BOOTP) server; <sup>[11]</sup> also used by <a href="#">Dynamic Host Configuration Protocol</a> (DHCP)
68	Assigned	Yes			Bootstrap Protocol (BOOTP) client; <sup>[11]</sup> also used by Dynamic Host Configuration Protocol (DHCP)
69	Assigned	Yes			<a href="#">Trivial File Transfer Protocol</a> (TFTP) <sup>[11][39][40][41]</sup>
70	Yes	Assigned			<a href="#">Gopher</a> protocol <sup>[42]</sup>
71–74	Yes	Yes			<a href="#">NETRJS</a> protocol <sup>[43][44][45]</sup>
79	Yes	Assigned			<a href="#">Finger protocol</a> <sup>[11][46][47]</sup>
80	Yes	Yes	Yes <sup>[12]</sup>		<a href="#">Hypertext Transfer Protocol</a> (HTTP) <sup>[48][49]</sup> uses TCP in versions 1.x and 2. <a href="#">HTTP/3</a> uses <a href="#">QUIC</a> , <sup>[50]</sup> a transport protocol on top of UDP.

Port	TCP	UDP	SCTP	DCCP	Description
81	Unofficial				<a href="#">TorPark onion routing</a> <sup>[<a href="#">verification needed</a>]</sup>
82		Unofficial			<a href="#">TorPark control</a> <sup>[<a href="#">verification needed</a>]</sup>
83	Yes	Assigned			MIT ML Device, networking file system <sup>[<a href="#">51</a>]</sup>
88	Yes	Yes			<a href="#">Kerberos</a> <sup>[<a href="#">11</a>][<a href="#">52</a>][<a href="#">53</a>]</sup> authentication system
90	Unofficial	Unofficial			<a href="#">PointCast (dotcom)</a> <sup>[<a href="#">2</a>][<a href="#">third-party source needed</a>]</sup>
95	Yes	Assigned			SUPDUP, terminal-independent remote login <sup>[<a href="#">54</a>]</sup>
101	Yes	Assigned			<a href="#">NIC host name</a> <sup>[<a href="#">55</a>]</sup>
102	Yes	Assigned			<a href="#">ISO Transport Service Access Point (TSAP)</a> Class 0 protocol; <sup>[<a href="#">56</a>][<a href="#">57</a>]</sup>
104	Yes	Yes			<a href="#">Digital Imaging and Communications in Medicine</a> (DICOM; also port 11112)
105	Yes	Yes			<a href="#">CCSO Nameserver</a> <sup>[<a href="#">58</a>]</sup>
107	Yes	Yes			<a href="#">Remote User Telnet Service</a> (RTelnet) <sup>[<a href="#">59</a>]</sup>
108	Yes	Yes			IBM <a href="#">Systems Network Architecture</a> (SNA) gateway access server
109	Yes	Assigned			<a href="#">Post Office Protocol</a> , version 2 (POP2) <sup>[<a href="#">60</a>]</sup>
110	Yes	Assigned			Post Office Protocol, version 3 (POP3) <sup>[<a href="#">11</a>][<a href="#">61</a>][<a href="#">62</a>]</sup>
111	Yes	Yes			<a href="#">Open Network Computing Remote Procedure Call (ONC RPC)</a> , sometimes referred to as <a href="#">Sun RPC</a>
	Yes	No			<a href="#">Ident</a> , authentication service/identification protocol, <sup>[<a href="#">11</a>][<a href="#">63</a>]</sup> used by <a href="#">IRC</a> servers to identify users
113	Yes	Assigned			Authentication Service (auth), the predecessor to <i>identification protocol</i> . Used to determine a user's identity of a particular TCP connection. <sup>[<a href="#">64</a>]</sup>
115	Yes	Assigned			<a href="#">Simple File Transfer Protocol</a> <sup>[<a href="#">11</a>][<a href="#">65</a>]</sup>
117	Yes	Yes			<a href="#">UUCP Mapping Project</a> (path service) <sup>[<a href="#">citation needed</a>]</sup>
118	Yes	Yes			Structured Query Language ( <a href="#">SQL</a> ) Services <sup>[<a href="#">Iraon</a>]</sup>
119	Yes	Assigned			<a href="#">Network News Transfer Protocol</a> (NNTP), <sup>[<a href="#">11</a>]</sup> retrieval of newsgroup messages <sup>[<a href="#">66</a>][<a href="#">67</a>]</sup>
123	Assigned	Yes			<a href="#">Network Time Protocol</a> (NTP), used for time synchronization <sup>[<a href="#">11</a>]</sup>
126	Yes	Yes			Formerly <a href="#">Unisys</a> Unitary Login, renamed by Unisys to NXEdit. Used by Unisys Programmer's Workbench for Clearpath MCP, an IDE for <a href="#">Unisys MCP software development</a>
	Yes	Yes			<a href="#">DCE endpoint</a> resolution
135	Yes	Yes			<a href="#">Microsoft</a> EPMap (End Point Mapper), also known as DCE/ <a href="#">RPC</a> Locator service, <sup>[<a href="#">68</a>]</sup> used to remotely manage services including <a href="#">DHCP server</a> , <a href="#">DNS</a> server and <a href="#">WINS</a> . Also used by <a href="#">DCOM</a>
137	Yes	Yes			<a href="#">NetBIOS</a> Name Service, used for name registration and <a href="#">resolution</a> <sup>[<a href="#">69</a>][<a href="#">70</a>]</sup>
138	Assigned	Yes			NetBIOS Datagram Service <sup>[<a href="#">11</a>][<a href="#">69</a>][<a href="#">70</a>]</sup>
139	Yes	Assigned			NetBIOS Session Service <sup>[<a href="#">69</a>][<a href="#">70</a>]</sup>
143	Yes	Assigned			<a href="#">Internet Message Access Protocol</a> (IMAP), <sup>[<a href="#">11</a>]</sup> management of <a href="#">electronic mail</a> messages on a server <sup>[<a href="#">71</a>]</sup>
152	Yes	Yes			<a href="#">Background File Transfer Program</a> (BFTP) <sup>[<a href="#">72</a>][<a href="#">importance?</a>]</sup>
153	Yes	Yes			<a href="#">Simple Gateway Monitoring Protocol</a> (SGMP), a protocol for remote inspection and alteration of gateway management information <sup>[<a href="#">73</a>]</sup>
156	Yes	Yes			Structured Query Language ( <a href="#">SQL</a> ) Service <sup>[<a href="#">Iraon</a>]</sup>
158	Yes	Yes			<a href="#">Distributed Mail System Protocol</a> ( <a href="#">DMSP</a> , sometimes referred to as <a href="#">Pcmail</a> ) <sup>[<a href="#">74</a>][<a href="#">importance?</a>]</sup>
161	Assigned	Yes			<a href="#">Simple Network Management Protocol</a> (SNMP) <sup>[<a href="#">75</a>][<a href="#">citation needed</a>][<a href="#">11</a>]</sup>
162	Yes	Yes			<a href="#">Simple Network Management Protocol</a> Trap (SNMPTRAP) <sup>[<a href="#">75</a>][<a href="#">76</a>][<a href="#">citation needed</a>]</sup>
170	Yes	Yes			Network <a href="#">PostScript</a> print server
177	Yes	Yes			<a href="#">X Display Manager Control Protocol</a> (XDMCP), used for remote logins to an <a href="#">X Display Manager</a> server <sup>[<a href="#">77</a>][<a href="#">self-published source</a>]</sup>
179	Yes	Assigned	Yes <sup>[<a href="#">12</a>]</sup>		<a href="#">Border Gateway Protocol</a> (BGP), <sup>[<a href="#">78</a>]</sup> used to exchange routing and reachability information among <a href="#">autonomous systems</a> (AS) on the <a href="#">Internet</a>
194	Yes	Yes			<a href="#">Internet Relay Chat</a> (IRC) <sup>[<a href="#">79</a>]</sup>
199	Yes	Yes			<a href="#">SNMP</a> Unix Multiplexer (SMUX) <sup>[<a href="#">80</a>]</sup>
201	Yes	Yes			<a href="#">AppleTalk</a> Routing Maintenance

Port	TCP	UDP	SCTP	DCCP	Description
209	Yes	Assigned			<a href="#">Quick Mail Transfer Protocol</a> <sup>[81]</sup> <sup>[self-published source]</sup>
210	Yes	Yes			<a href="#">ANSI Z39.50</a>
213	Yes	Yes			<a href="#">Internetwork Packet Exchange</a> (IPX)
218	Yes	Yes			Message posting protocol (MPP)
220	Yes	Yes			<a href="#">Internet Message Access Protocol</a> (IMAP), version 3
225–241	Reserved	Reserved			
249–255	Reserved	Reserved			
259	Yes	Yes			Efficient Short Remote Operations (ESRO)
262	Yes	Yes			Arcisdms
264	Yes	Yes			<a href="#">Border Gateway Multicast Protocol</a> (BGMP)
280	Yes	Yes			http-mgmt
300	Unofficial				<a href="#">ThinLinc</a> Web Access
308	Yes				Novastor Online Backup
311	Yes	Assigned			<a href="#">macOS Server Admin</a> <sup>[11]</sup> (officially <a href="#">AppleShare</a> IP Web administration <sup>[2]</sup> )
318	Yes	Yes			PKIX <a href="#">Time Stamp Protocol</a> (TSP)
319		Yes			<a href="#">Precision Time Protocol</a> (PTP) event messages
320		Yes			<a href="#">Precision Time Protocol</a> (PTP) general messages
350	Yes	Yes			<a href="#">Mapping of Airline Traffic over Internet Protocol</a> (MATIP) type A
351	Yes	Yes			MATIP type B
356	Yes	Yes			cloanto-net-1 (used by Cloanto Amiga Explorer and VMs)
366	Yes	Yes			On-Demand Mail Relay (ODMR)
369	Yes	Yes			Rpc2portmap
370		Yes			codaaauth2, Coda authentication server
371	Yes	Yes			securecast1, outgoing packets to <a href="#">NAI</a> 's SecureCast servers <sup>[82]</sup> As of 2000
376	Yes	Yes			ClearCase albd
383	Yes	Yes			<a href="#">Amiga</a> Envoy Network Inquiry Protocol
384	Yes	Yes			HP data alarm manager
384	Yes	Yes			A Remote Network Server System
387	Yes	Yes			AURP ( <a href="#">AppleTalk</a> Update-based Routing Protocol) <sup>[83]</sup>
388	Yes	Assigned			<a href="#">Unidata LDM</a> near real-time data distribution protocol <sup>[84]</sup> <sup>[self-published source]</sup> <sup>[85]</sup> <sup>[self-published source]</sup>
389	Yes	Assigned			<a href="#">Lightweight Directory Access Protocol</a> (LDAP) <sup>[11]</sup>
399	Yes	Yes			<a href="#">Digital Equipment Corporation DECnet+</a> (Phase V) over TCP/IP (RFC1859)
401	Yes	Yes			<a href="#">Uninterruptible power supply</a> (UPS)
427	Yes	Yes			<a href="#">Service Location Protocol</a> (SLP) <sup>[11]</sup>
433	Yes	Yes			NNTP, part of <a href="#">Network News Transfer Protocol</a>
434	Yes	Yes			<a href="#">Mobile IP</a> Agent (RFC 5944)
443	Yes	Yes	Yes <sup>[12]</sup>		<a href="#">Hypertext Transfer Protocol Secure</a> (HTTPS) <sup>[48]</sup> <sup>[49]</sup> uses TCP in versions 1.x and 2. <a href="#">HTTP/3</a> uses QUIC, <sup>[50]</sup> a transport protocol on top of UDP.
444	Yes	Yes			<a href="#">Simple Network Paging Protocol</a> (SNPP), RFC 1568
445	Yes	Yes			Microsoft-DS (Directory Services) <a href="#">Active Directory</a> , <sup>[86]</sup> Windows shares
445	Yes	Assigned			Microsoft-DS (Directory Services) <a href="#">SMB</a> <sup>[11]</sup> file sharing
464	Yes	Yes			<a href="#">Kerberos</a> Change/Set password
465	Yes	No			URL Rendezvous Directory for SSM (Cisco protocol) <sup>[importance?]</sup>
465	Yes	No			Authenticated <a href="#">SMTP</a> <sup>[11]</sup> over <a href="#">TLS/SSL</a> ( <a href="#">SMTPS</a> ) <sup>[87]</sup>
475	Yes	Yes			tcpnethasprv, <a href="#">Aladdin Knowledge Systems</a> Hasp services
476–490	Unofficial	Unofficial			<a href="#">Centro Software ERP</a> ports
491	Unofficial				<a href="#">GO-Global</a> remote access and application publishing software
497	Yes	Yes			<a href="#">Retrospect</a>

Port	TCP	UDP	SCTP	DCCP	Description
500	Assigned	Yes			<a href="#">Internet Security Association and Key Management Protocol</a> (ISAKMP) / <a href="#">Internet Key Exchange</a> (IKE) <sup>[11]</sup>
502	Yes	Yes			<a href="#">Modbus</a> Protocol
504	Yes	Yes			<a href="#">Citadel</a> , multiservice protocol for dedicated clients for the Citadel groupware system
510	Yes	Yes			FirstClass Protocol (FCP), used by <a href="#">FirstClass</a> client/server groupware system
512	Yes				<a href="#">Rexec</a> , Remote Process Execution
513	Yes	Yes			comsat, together with <a href="#">biff</a> <a href="#">rlogin</a>
514	Unofficial				Who <sup>[88]</sup> <a href="#">Remote Shell</a> , used to execute non-interactive commands on a remote system (Remote Shell, rsh, remsh)
515	No	Yes			<a href="#">Syslog</a> , <sup>[11]</sup> used for system logging
517	Yes	Assigned			<a href="#">Line Printer Daemon</a> (LPD), <sup>[11]</sup> print service
518		Yes			<a href="#">Talk</a>
520	Yes	Yes			NTalk efs, extended file name server
521		Yes			<a href="#">Routing Information Protocol</a> (RIP)
524	Yes	Yes			<a href="#">Routing Information Protocol Next Generation</a> (RIPng) <a href="#">NetWare Core Protocol</a> (NCP) is used for a variety things such as access to primary NetWare server resources, Time Synchronization, etc.
525		Yes			Timed, <a href="#">Timeserver</a>
530	Yes	Yes			<a href="#">Remote procedure call</a> (RPC)
532	Yes	Assigned			netnews <sup>[11]</sup>
533		Yes			netwall, For Emergency Broadcasts
540	Yes				Unix-to-Unix Copy Protocol ( <a href="#">UUCP</a> )
542	Yes	Yes			<a href="#">commerce</a> (Commerce Applications)
543	Yes				klogin, <a href="#">Kerberos</a> login
544	Yes				kshell, <a href="#">Kerberos</a> Remote shell
546	Yes	Yes			<a href="#">DHCPv6</a> client
547	Yes	Yes			<a href="#">DHCPv6</a> server
548	Yes	Assigned			<a href="#">Apple Filing Protocol</a> (AFP) over <a href="#">TCP</a> <sup>[11]</sup>
550	Yes	Yes			new-rwho, new-who <sup>[88]</sup>
554	Yes	Yes			<a href="#">Real Time Streaming Protocol</a> (RTSP) <sup>[11]</sup>
556	Yes				Remotefs, <a href="#">RFS</a> , rfs_server
560		Yes			rmonitor, Remote Monitor
561		Yes			monitor
563	Yes	Yes			<a href="#">NNTP</a> over <a href="#">TLS/SSL</a> (NNTPS)
564	Unofficial				<a href="#">9P</a> ( <a href="#">Plan 9</a> )
585	No	No			Previously assigned for use of <a href="#">Internet Message Access Protocol</a> over <a href="#">TLS/SSL</a> (IMAPS), now deregisterd in favour of port 993. <sup>[89]</sup>
587	Yes	Assigned			<a href="#">email message submission</a> <sup>[11][90]</sup> ( <a href="#">SMTP</a> )
591	Yes				<a href="#">FileMaker</a> 6.0 (and later) Web Sharing (HTTP Alternate, also see port 80)
593	Yes	Yes			HTTP RPC Ep Map, <a href="#">Remote procedure call</a> over <a href="#">Hypertext Transfer Protocol</a> , often used by <a href="#">Distributed Component Object Model</a> services and <a href="#">Microsoft Exchange Server</a>
601	Yes				Reliable <a href="#">Syslog</a> Service — used for system logging
604	Yes				TUNNEL profile, <sup>[91]</sup> a protocol for <a href="#">BEEP peers</a> to form an <a href="#">application layer tunnel</a>
623		Yes			ASF Remote Management and Control Protocol (ASF-RMCP) & IPMI Remote Management Protocol
625	Unofficial	No			Open Directory Proxy (ODProxy) <sup>[11]</sup>
631	Yes	Yes			<a href="#">Internet Printing Protocol</a> (IPP) <sup>[11]</sup>
631	Unofficial	Unofficial			<a href="#">Common Unix Printing System</a> (CUPS) administration console (extension to IPP)

Port	TCP	UDP	SCTP	DCCP	Description
635	Yes	Yes			RLZ DBase
636	Yes	Assigned			<a href="#">Lightweight Directory Access Protocol</a> over <a href="#">TLS/SSL</a> (LDAPS) <sup>[11]</sup>
639	Yes	Yes			<a href="#">Multicast Source Discovery Protocol</a> , MSDP
641	Yes	Yes			SupportSoft Nexus Remote Command (control/listening), a proxy gateway connecting remote control traffic
643	Yes	Yes			SANity
646	Yes	Yes			<a href="#">Label Distribution Protocol</a> (LDP), a routing protocol used in <a href="#">MPLS</a> networks
647	Yes				<a href="#">DHCP Failover</a> protocol <sup>[92]</sup>
648	Yes				Registry Registrar Protocol (RRP) <sup>[93]</sup>
651	Yes	Yes			IEEE-MMS
653	Yes	Yes			SupportSoft Nexus Remote Command (data), a proxy gateway connecting remote control traffic
654	Yes				Media Management System (MMS) Media Management Protocol (MMP) <sup>[94]</sup>
655	Yes	Yes			<a href="#">Tinc</a> VPN daemon
657	Yes	Yes			<a href="#">IBM</a> RMC (Remote monitoring and Control) protocol, used by <a href="#">System p5 AIX</a> Integrated Virtualization Manager (IVM) <sup>[95]</sup> and <a href="#">Hardware Management Console</a> to connect managed <a href="#">logical partitions (LPAR)</a> to enable dynamic partition reconfiguration
660	Yes	Assigned			<a href="#">macOS Server</a> administration, <sup>[2]</sup> version 10.4 and earlier <sup>[11]</sup>
<a href="#">666</a>	Yes	Yes			<a href="#">Doom</a> , first online <a href="#">first-person shooter</a>
	Unofficial				<a href="#">airserv-ng</a> , <a href="#">aircrack-ng</a> 's server for remote-controlling wireless devices
674	Yes				<a href="#">Application Configuration Access Protocol</a> (ACAP)
688	Yes	Yes			REALM-RUSD (ApplianceWare Server Appliance Management Protocol)
690	Yes	Yes			Velneo Application Transfer Protocol (VATP)
691	Yes				<a href="#">MS Exchange</a> Routing
694	Yes	Yes			<a href="#">Linux-HA</a> high-availability heartbeat
695	Yes				<a href="#">IEEE</a> Media Management System over <a href="#">SSL</a> (IEEE-MMS-SSL) <sup>[96]</sup>
698		Yes			<a href="#">Optimized Link State Routing</a> (OLSR)
700	Yes				<a href="#">Extensible Provisioning Protocol</a> (EPP), a protocol for communication between <a href="#">domain name registries</a> and <a href="#">registrars</a> (RFC 5734)
701	Yes				Link Management Protocol (LMP), <sup>[97]</sup> a protocol that runs between a pair of <a href="#">nodes</a> and is used to manage <a href="#">traffic engineering</a> (TE) <a href="#">links</a>
702	Yes				IRIS <sup>[98][99]</sup> (Internet Registry Information Service) over <a href="#">BEEP</a> (Blocks Extensible Exchange Protocol) <sup>[100]</sup> (RFC 3983)
706	Yes				<a href="#">Secure Internet Live Conferencing</a> (SILC)
711	Yes				<a href="#">Cisco</a> Tag Distribution Protocol <sup>[101][102][103]</sup> —being replaced by the MPLS <a href="#">Label Distribution Protocol</a> <sup>[104]</sup>
712	Yes				<a href="#">Topology Broadcast based on Reverse-Path Forwarding routing protocol</a> (TBRPF; RFC 3684)
749	Yes	Yes			<a href="#">Kerberos (protocol)</a> administration <sup>[11]</sup>
750		Yes			kerberos-iv, <a href="#">Kerberos</a> version IV
751	Unofficial	Unofficial			kerberos_master, <a href="#">Kerberos</a> authentication
752		Unofficial			passwd_server, <a href="#">Kerberos</a> password (kpasswd) server
753	Yes	Yes			Reverse Routing Header (RRH) <sup>[105]</sup>
		Unofficial			userreg_server, <a href="#">Kerberos</a> userreg server
	Yes	Yes			tell send
754	Unofficial				krb5_prop, <a href="#">Kerberos</a> v5 slave propagation
760	Unofficial	Unofficial			krbupdate [kreg], <a href="#">Kerberos</a> registration
782	Unofficial				<a href="#">Conserver</a> serial-console management server
783	Unofficial				<a href="#">SpamAssassin</a> spamd daemon
800	Yes	Yes			mdb5-daemon
802	Yes	Yes			<a href="#">MODBUS/TCP Security</a> <sup>[106]</sup>
808	Unofficial				Microsoft Net.TCP Port Sharing Service

Port	TCP	UDP	SCTP	DCCP	Description
829	Yes	Assigned			<a href="#">Certificate Management Protocol</a> <sup>[107]</sup>
830	Yes	Yes			<a href="#">NETCONF</a> over <a href="#">SSH</a>
831	Yes	Yes			<a href="#">NETCONF</a> over <a href="#">BEEP</a>
832	Yes	Yes			<a href="#">NETCONF</a> for <a href="#">SOAP</a> over <a href="#">HTTPS</a>
833	Yes	Yes			<a href="#">NETCONF</a> for SOAP over <a href="#">BEEP</a>
843	Unofficial				<a href="#">Adobe Flash</a> <sup>[108]</sup>
847	Yes				<a href="#">DHCP Failover</a> protocol
848	Yes	Yes			Group Domain Of Interpretation (GDOI) protocol
853	Yes	Yes			<a href="#">DNS</a> over <a href="#">TLS</a> (RFC 7858)
860	Yes				<a href="#">iSCSI</a> (RFC 3720)
861	Yes	Yes			OWAMP control (RFC 4656)
862	Yes	Yes			TWAMP control (RFC 5357)
873	Yes				<a href="#">rsync</a> file synchronization protocol
888	Unofficial				cddbp, <a href="#">CD DataBase (CDDB)</a> protocol (CDDBP)
	Unofficial				IBM Endpoint Manager Remote Control
897	Unofficial	Unofficial			<a href="#">Brocade</a> SMI-S RPC
898	Unofficial	Unofficial			Brocade SMI-S RPC SSL
902	Unofficial	Unofficial			<a href="#">VMware ESX</a> <sup>[109][110]</sup>
903	Unofficial				VMware ESX <sup>[109][110]</sup>
953	Yes	Reserved			<a href="#">BIND</a> remote name daemon control (RNDC) <sup>[111][112]</sup>
981	Unofficial				Remote HTTPS management for firewall devices running embedded <a href="#">Check Point VPN-1</a> software <sup>[113]</sup>
987		Unofficial			Sony PlayStation Wake On Lan
	Unofficial				<a href="#">Microsoft Remote Web Workplace</a> , a feature of <a href="#">Windows Small Business Server</a> <sup>[114]</sup>
989	Yes	Yes			<a href="#">FTPS</a> Protocol (data), <a href="#">FTP</a> over <a href="#">TLS/SSL</a>
990	Yes	Yes			<a href="#">FTPS</a> Protocol (control), <a href="#">FTP</a> over <a href="#">TLS/SSL</a>
991	Yes	Yes			<a href="#">Netnews</a> Administration System (NAS) <sup>[115]</sup>
992	Yes	Yes			<a href="#">Telnet</a> protocol over <a href="#">TLS/SSL</a>
993	Yes	Assigned			<a href="#">Internet Message Access Protocol</a> over <a href="#">TLS/SSL</a> (IMAPS) <sup>[11]</sup>
994	Reserved	Reserved			Previously assigned to <a href="#">Internet Relay Chat</a> over <a href="#">TLS/SSL</a> (IRCS), but was not used in common practice.
995	Yes	Yes			<a href="#">Post Office Protocol</a> 3 over <a href="#">TLS/SSL</a> (POP3S) <sup>[11]</sup>
1010	Unofficial				<a href="#">ThinLinc</a> web-based administration interface <sup>[116]</sup>
1011–1020	Reserved	Reserved			
	Reserved	Reserved			<sup>[2]</sup>
1023	Unofficial	Unofficial			<a href="#">z/OS</a> Network File System (NFS) (potentially ports 991–1023) <sup>[79][80][117]</sup>

## Registered ports

This is a [dynamic list](#) and may never be able to satisfy particular standards for completeness. You can help by [adding missing items](#) with [reliable sources](#).

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

## Registered ports

Port	TCP	UDP	SCTP	DCCP	Description
1024	Reserved	Reserved			Reserved

Port	TCP	UDP	SCTP	DCCP	Description
	Reserved				Reserved
1027		Yes			Native IPv6 behind IPv4-to-IPv4 NAT Customer Premises Equipment (6a44) <sup>[118]</sup>
1028	Reserved <sup>[2]</sup>				
1029	Unofficial				Microsoft <a href="#">DCOM</a> services
1058	Yes	Yes			nim, <a href="#">IBM AIX Network Installation Manager</a> (NIM)
1059	Yes	Yes			nimreg, IBM AIX Network Installation Manager (NIM)
1080	Yes	Yes			<a href="#">SOCKS</a> proxy
1085	Yes	Yes			<a href="#">WebObjects</a> <sup>[11]</sup>
1098	Yes	Yes			rmiaactivation, <a href="#">Java remote method invocation</a> (RMI) activation
1099	Yes	Assigned			rmiregistry, Java remote method invocation (RMI) registry
1109	Reserved	Reserved			Reserved
	Unofficial				<a href="#">Kerberos</a> Post Office Protocol ( <a href="#">KPOP</a> ) <sup>[citation needed]</sup>
1113	Assigned <sup>[note 1][119]</sup>	Yes <sup>[120]</sup>			<a href="#">Licklider Transmission Protocol</a> (LTP) delay tolerant networking protocol
1119	Yes	Yes			<a href="#">Battle.net</a> chat/game protocol, used by <a href="#">Blizzard</a> 's games <sup>[121]</sup>
1167	Yes	Yes	Yes		Cisco <a href="#">IP SLA</a> (Service Assurance Agent)
1194	Yes	Yes			<a href="#">OpenVPN</a>
1198	Yes	Yes			The <a href="#">cajo project</a> Free dynamic transparent distributed computing in Java
1214	Yes	Yes			<a href="#">Kazaa</a>
1220	Yes	Assigned			<a href="#">QuickTime Streaming Server</a> administration <sup>[11]</sup>
	Yes	Yes			<a href="#">Infoseek</a> search agent
1234		Unofficial			<a href="#">VLC media player</a> default port for UDP/RTP stream
1241	Unofficial	Unofficial			<a href="#">Nessus Security Scanner</a>
1270	Yes	Yes			Microsoft <a href="#">System Center Operations Manager</a> (SCOM) (formerly Microsoft Operations Manager (MOM)) agent
1293	Yes	Yes			Internet Protocol Security ( <a href="#">IPSec</a> )
	Yes	Yes			Windows RxMon.exe
1311	Unofficial				Dell <a href="#">OpenManage</a> HTTPS <sup>[122]</sup>
1314	Unofficial				<a href="#">Festival Speech Synthesis System</a> server <sup>[123]</sup>
1319	Yes	Yes			AMX ICSP (Protocol for communications with AMX control systems devices)
	Yes	Yes			<a href="#">Men&amp;Mice DNS</a> <sup>[124]</sup>
	Unofficial				<a href="#">neo4j-shell</a> <sup>[citation needed]</sup>
<a href="#">1337</a>	Unofficial				<a href="#">Strapi</a> <sup>[125]</sup>
	Unofficial				<a href="#">Sails.js</a> default port <sup>[126]</sup>
	Unofficial				<a href="#">WASTE</a> Encrypted File Sharing Program <sup>[citation needed]</sup>
1341	Yes	Yes			Qubes ( <a href="#">Manufacturing Execution System</a> )
1344	Yes	Yes			<a href="#">Internet Content Adaptation Protocol</a>
1352	Yes	Yes			IBM <a href="#">Lotus Notes/Domino (RPC)</a> protocol
1360	Yes	Yes			<a href="#">Mimer SQL</a>
1414	Yes	Yes			<a href="#">IBM WebSphere MQ</a> (formerly known as <a href="#">MQSeries</a> )
1417	Yes	Yes			<a href="#">Timbuktu</a> Service 1 Port



Port	TCP	UDP	SCTP DCCP	Description
1418	Yes	Yes		Timbuktu Service 2 Port
1419	Yes	Yes		Timbuktu Service 3 Port
1420	Yes	Yes		Timbuktu Service 4 Port
1431	Yes			<a href="#">Reverse Gossip Transport Protocol</a> (RGTP), used to access a General-purpose Reverse-Ordered Gossip Gathering System (GROGGS) <a href="#">bulletin board</a> , such as that implemented on the <a href="#">Cambridge University's Phoenix system</a>
1433	Yes	Yes		<a href="#">Microsoft SQL Server database management system</a> (MSSQL) server
1434	Yes	Yes		Microsoft SQL Server database management system (MSSQL) monitor
1481	Yes	Yes		AIRS data interchange.
1492	Unofficial			<a href="#">Sid Meier's CivNet</a> , a multiplayer remake of the original <i>Sid Meier's Civilization</i> game <sup>[citation needed]</sup>
1494	Unofficial	Unofficial		Citrix <a href="#">Independent Computing Architecture</a> (ICA) <sup>[127]</sup>
1500	Unofficial			<a href="#">IBM Tivoli Storage Manager</a> server <sup>[128]</sup>
1501	Unofficial			IBM Tivoli Storage Manager client scheduler <sup>[128]</sup>
1503	Unofficial	Unofficial		<a href="#">Windows Live Messenger</a> (Whiteboard and Application Sharing) <sup>[129]</sup>
1512	Yes	Yes		Microsoft's <a href="#">Windows Internet Name Service</a> (WINS)
1513	Unofficial	Unofficial		<a href="#">Garena</a> game client <sup>[citation needed]</sup>
	Yes	Yes		<a href="#">nCUBE</a> License Manager
1521	Unofficial			<a href="#">Oracle database</a> default listener, in future releases <sup>[when?][130]</sup> official port 2483 (TCP/IP) and 2484 (TCP/IP with SSL)
1524	Yes	Yes		ingreslock, <a href="#">ingres</a>
1527	Yes	Yes		<a href="#">Oracle Net Services</a> , formerly known as SQL*Net <sup>[131]</sup>
	Unofficial			<a href="#">Apache Derby Network Server</a> <sup>[132]</sup>
1533	Yes	Yes		<a href="#">IBM Sametime</a> Virtual Places Chat
1534	No	Unofficial		Eclipse Target Communication Framework <sup>[133]</sup>
1540	Unofficial	Unofficial		<a href="#">1C:Enterprise</a> server agent (ragent) <sup>[134][135]</sup>
1541	Unofficial	Unofficial		1C:Enterprise master cluster manager (rmngr) <sup>[134]</sup>
1542	Unofficial	Unofficial		1C:Enterprise configuration repository server <sup>[134]</sup>
1545	Unofficial	Unofficial		1C:Enterprise cluster administration server (RAS) <sup>[134]</sup>
1547	Yes	Yes		<a href="#">Laplank</a>
1550	Unofficial	Unofficial		1C:Enterprise debug server <sup>[134]</sup>
	Unofficial			<a href="#">Gadu-Gadu</a> (direct client-to-client) <sup>[citation needed]</sup>
1560–1590	Unofficial	Unofficial		1C:Enterprise cluster working processes <sup>[134]</sup>
1581	Yes	Yes		<a href="#">MIL STD 2045-47001 VMF</a>
	Unofficial			<a href="#">IBM Tivoli Storage Manager</a> web client <sup>[128]</sup>
1582–1583	Unofficial			IBM Tivoli Storage Manager server web interface <sup>[128]</sup>
1583	Unofficial			<a href="#">Pervasive PSQL</a> <sup>[136]</sup>
1589	Yes	Yes		Cisco VLAN Query Protocol ( <a href="#">VQP</a> )
1604	Unofficial	Unofficial		<a href="#">DarkComet</a> remote administration tool (RAT) <sup>[citation needed]</sup>
1626	Unofficial			<a href="#">iSketch</a> <sup>[137]</sup>

Port	TCP	UDP	SCTP DCCP	Description
1627	Unofficial			iSketch <sup>[137]</sup>
1628	Yes	Yes		<a href="#">LonTalk</a> normal
1629	Yes	Yes		LonTalk urgent
1645	No	Unofficial		Early deployment of <a href="#">RADIUS</a> before RFC standardization was done using UDP port number 1645. Enabled for compatibility reasons by default on <a href="#">Cisco</a> <sup>[citation needed]</sup> and <a href="#">Juniper Networks</a> RADIUS servers. <sup>[138]</sup> Official port is 1812. TCP port 1645 <b>MUST NOT</b> be used. <sup>[139]</sup>
1646	No	Unofficial		Old radacct port, <sup>[when?]</sup> RADIUS accounting protocol. Enabled for compatibility reasons by default on <a href="#">Cisco</a> <sup>[citation needed]</sup> and <a href="#">Juniper Networks</a> RADIUS servers. <sup>[138]</sup> Official port is 1813. TCP port 1646 <b>MUST NOT</b> be used. <sup>[139]</sup>
1666	Unofficial			<a href="#">Perforce</a> <sup>[140]</sup>
1677	Yes	Yes		<a href="#">Novell GroupWise</a> clients in client/server access mode
1688	Unofficial			Microsoft <a href="#">Key Management Service</a> (KMS) for Windows Activation <sup>[141]</sup>
1701	Yes	Yes		<a href="#">Layer 2 Forwarding Protocol</a> (L2F)
	Assigned	Yes		<a href="#">Layer 2 Tunneling Protocol</a> (L2TP) <sup>[11]</sup>
1707	Yes	Yes		<a href="#">Windward Studios</a> games (vdmply)
		Unofficial		L2TP/IPsec, for establish an initial connection <sup>[142]</sup>
1716		Unofficial		<a href="#">America's Army</a> , a <a href="#">massively multiplayer online game</a> (MMO) <sup>[143]</sup>
1719	Yes	Yes		<a href="#">H.323</a> registration and alternate communication
1720	Yes	Yes		<a href="#">H.323</a> call signaling
1723	Yes	Assigned		<a href="#">Point-to-Point Tunneling Protocol</a> (PPTP) <sup>[11]</sup>
1755	Yes	Yes		<a href="#">Microsoft Media Services</a> (MMS, ms-streaming)
1761	Unofficial	Unofficial		<a href="#">Novell ZENworks</a> <sup>[144][145]</sup>
1776	Yes			<a href="#">Federal Emergency Management Information System</a>
1783		Reserved		"Decomissioned [ <i>sic</i> ] Port 04/14/00, ms" <sup>[2]</sup>
1801	Yes	Yes		<a href="#">Microsoft Message Queuing</a>
1812	Yes	Yes		<a href="#">RADIUS</a> authentication protocol, radius
1813	Yes	Yes		<a href="#">RADIUS</a> accounting protocol, radius-acct
1863	Yes	Yes		<a href="#">Microsoft Notification Protocol</a> (MSNP), used by the <a href="#">Microsoft Messenger service</a> and a number of instant messaging <a href="#">Messenger clients</a>
1880	Unofficial			<a href="#">Node-RED</a> <sup>[146]</sup>
1883	Yes	Yes		<a href="#">MQTT</a> (formerly MQ Telemetry Transport)
1900	Assigned	Yes		<a href="#">Simple Service Discovery Protocol</a> (SSDP), <sup>[11]</sup> discovery of <a href="#">UPnP</a> devices
1935	Yes	Yes		<a href="#">Macromedia Flash</a> Communications <a href="#">Server MX</a> , the precursor to <a href="#">Adobe Flash Media Server</a> before <a href="#">Macromedia</a> 's acquisition by <a href="#">Adobe</a> on December 3, 2005
	Unofficial	Unofficial		<a href="#">Real Time Messaging Protocol</a> (RTMP) <sup>[citation needed]</sup> , primarily used in <a href="#">Adobe Flash</a> <sup>[147]</sup>
1965	Unofficial	No		<a href="#">Gemini</a> , a lightweight, collaboratively designed protocol, striving to fill the gap between Gopher and HTTP <sup>[148]</sup>

Port	TCP	UDP	SCTP DCCP	Description
1967		Unofficial		Cisco IOS IP Service Level Agreements ( <a href="#">IP SLAs</a> ) Control Protocol <sup>[citation needed]</sup>
1970	Yes	Yes		<a href="#">Netop Remote Control</a>
1972	Yes	Yes		<a href="#">InterSystems Caché</a>
1984	Yes	Yes		<a href="#">Big Brother</a>
1985	Assigned	Yes		Cisco <a href="#">Hot Standby Router Protocol</a> (HSRP) <sup>[149][self-published source]</sup>
1998	Yes	Yes		<a href="#">Cisco</a> X.25 over TCP ( <a href="#">XOT</a> ) service
2000	Yes	Yes		Cisco <a href="#">Skinny Client Control Protocol</a> (SCCP)
2010	Unofficial			<a href="#">Artemis: Spaceship Bridge Simulator</a> <sup>[150]</sup>
2033	Unofficial	Unofficial		<a href="#">Civilization IV</a> multiplayer <sup>[151]</sup>
2049	Yes	Yes	Yes	<a href="#">Network File System</a> (NFS) <sup>[11]</sup>
2056	Unofficial	Unofficial		Civilization IV multiplayer <sup>[151]</sup>
2080	Yes	Yes		<a href="#">Autodesk</a> NLM ( <a href="#">FLEXlm</a> )
2082	Unofficial			<a href="#">cPanel</a> default <sup>[152]</sup>
2083	Yes	Yes		Secure <a href="#">RADIUS</a> Service (radsec)
	Unofficial			cPanel default <a href="#">SSL</a> <sup>[152]</sup>
2086	Yes	Yes		<a href="#">GNUnet</a>
	Unofficial			<a href="#">WebHost Manager</a> default <sup>[152]</sup>
2087	Unofficial			WebHost Manager default <a href="#">SSL</a> <sup>[152]</sup>
2095	Yes			cPanel default web mail <sup>[152]</sup>
2096	Unofficial			cPanel default <a href="#">SSL</a> web mail <sup>[152]</sup>
2100	Unofficial			<a href="#">Warzone 2100</a> multiplayer <sup>[citation needed]</sup>
2101	Unofficial			<a href="#">Networked Transport of RTCM via Internet Protocol</a> (NTRIP) <sup>[citation needed]</sup>
2102	Yes	Yes		<a href="#">Zephyr Notification Service</a> server
2103	Yes	Yes		Zephyr Notification Service serv-hm connection
2104	Yes	Yes		Zephyr Notification Service hostmanager
2123	Yes	Yes		<a href="#">GTP</a> control messages (GTP-C)
2142	Yes	Yes		<a href="#">TDMoIP</a> (TDM over IP)
2152	Yes	Yes		<a href="#">GTP</a> user data messages (GTP-U)
2159	Yes	Yes		<a href="#">GDB remote debug port</a>
	Yes	Yes		EForward-document transport system
2181	Unofficial			<a href="#">Apache ZooKeeper</a> default client port <sup>[citation needed]</sup>
2195	Unofficial			<a href="#">Apple Push Notification Service</a> <sup>[11][153]</sup>
2196	Unofficial			Apple Push Notification Service, feedback service <sup>[11][153]</sup>
2210	Yes	Yes		<a href="#">NOAA</a> PORT Broadcast Network
2211	Yes	Yes		<a href="#">EMWIN</a>
2221	Unofficial			<a href="#">ESET</a> anti-virus updates <sup>[154]</sup>
2222	Yes	Yes		<a href="#">EtherNet/IP</a> implicit messaging for IO data
	Unofficial			<a href="#">DirectAdmin</a> Access <sup>[155]</sup>
2222–2226	Yes			ESET Remote administrator <sup>[154]</sup>
2240	Yes	Yes		<a href="#">General Dynamics</a> Remote Encryptor Configuration Information Protocol (RECIpe)

Port	TCP	UDP	SCTP DCCP	Description
2261	Yes	Yes		<a href="#">CoMotion</a> master
2262	Yes	Yes		CoMotion backup
2302		Unofficial		<a href="#">ArmA</a> multiplayer <sup>[156]</sup>
		Unofficial		<a href="#">Halo: Combat Evolved</a> multiplayer host <sup>[157]</sup>
2303		Unofficial		ArmA multiplayer ( <i>default port for game +1</i> ) <sup>[156]</sup>
		Unofficial		Halo: Combat Evolved multiplayer listener <sup>[157]</sup>
2305		Unofficial		ArmA multiplayer ( <i>default port for game +3</i> ) <sup>[156]</sup>
2351	Unofficial			<a href="#">AIM</a> game LAN network port <sup>[citation needed]</sup>
2368	Unofficial			<a href="#">Ghost (blogging platform)</a> <sup>[158]</sup>
2369	Unofficial			Default for <a href="#">BMC Control-M/Server</a> Configuration Agent
2370	Unofficial			Default for BMC Control-M/Server, to allow the Control-M/Enterprise Manager to connect to the Control-M/Server
2372	Unofficial			Default for <a href="#">K9 Web Protection</a> /parental controls, content filtering agent <sup>[citation needed]</sup>
2375	Yes	Reserved		<a href="#">Docker</a> REST API (plain)
2376	Yes	Reserved		Docker REST API (SSL)
2377	Yes	Reserved		Docker Swarm cluster management communications <sup>[159]</sup> <sup>[self-published source]</sup>
2379	Yes	Reserved		CoreOS <a href="#">etcd</a> client communication
	Unofficial			<a href="#">KGS Go Server</a> <sup>[160]</sup>
2380	Yes	Reserved		CoreOS etcd server communication
2389	Assigned	Assigned		OpenView Session Mgr
2399	Yes	Yes		<a href="#">FileMaker</a> Data Access Layer (ODBC/JDBC)
2401	Yes	Yes		<a href="#">CVS</a> version control system password-based server
2404	Yes	Yes		<a href="#">IEC 60870-5-104</a> , used to send electric power telecontrol messages between two systems via directly connected <a href="#">data circuits</a>
2424	Unofficial			<a href="#">OrientDB</a> database listening for binary client connections <sup>[161]</sup>
2427	Yes	Yes		<a href="#">Media Gateway Control Protocol</a> (MGCP) media gateway
2447	Yes	Yes		owwdb— <a href="#">OpenView Network Node Manager</a> (NNM) daemon
2459	Yes	Yes		<a href="#">XRPL</a>
2480	Unofficial			<a href="#">OrientDB</a> database listening for HTTP client connections <sup>[161]</sup>
2483	Yes	Yes		<a href="#">Oracle database</a> listening for insecure client connections to the listener, replaces port 1521 <sup>[when?]</sup>
2484	Yes	Yes		Oracle database listening for <a href="#">SSL</a> client connections to the listener
2500	Unofficial	Unofficial		NetFS communication <sup>[162]</sup>
2501		Unofficial		NetFS probe
2535	Yes	Yes		<a href="#">Multicast Address Dynamic Client Allocation Protocol</a> (MADCAP). <sup>[163]</sup> All standard messages are UDP datagrams. <sup>[164]</sup>
2541	Yes	Yes		<a href="#">LonTalk</a> /IP
2546–2548	Yes	Yes		<a href="#">EVault</a> data protection services
2593	Unofficial	Unofficial		<a href="#">Ultima Online</a> servers <sup>[citation needed]</sup>
2598	Unofficial			Citrix <a href="#">Independent Computing Architecture</a> (ICA) with Session Reliability; port 1494 without session reliability <sup>[127]</sup>

Port	TCP	UDP	SCTP DCCP	Description
2599	Unofficial	Unofficial		<a href="#">Ultima Online servers</a> <sup>[citation needed]</sup>
2628	Yes	Yes		<a href="#">DICT</a> <sup>[165]</sup>
2638	Yes	Yes		<a href="#">SQL Anywhere</a> database server <sup>[166][167]</sup>
2710	Unofficial	Unofficial		<a href="#">XBT Tracker</a> <sup>[168]</sup> UDP tracker extension is considered experimental. <sup>[169]</sup>
2727	Yes	Yes		<a href="#">Media Gateway Control Protocol</a> (MGCP) media gateway controller (call agent)
2775	Yes	Yes		<a href="#">Short Message Peer-to-Peer</a> (SMPP) <sup>[citation needed]</sup>
2809	Yes	Yes		corbaloc:iiop URL, per the <a href="#">CORBA</a> 3.0.3 specification
2811	Yes	Yes		gsi ftp, per the <a href="#">GridFTP</a> specification
2827	Unofficial			<a href="#">I2P</a> BOB Bridge <sup>[170]</sup>
2944	Yes	Yes		<a href="#">Megaco</a> text H.248
2945	Yes	Yes		Megaco binary (ASN.1) H.248
2947	Yes	Yes		<a href="#">gpsd</a> , GPS daemon
2948	Yes	Yes		<a href="#">WAP</a> push <a href="#">Multimedia Messaging Service</a> (MMS)
2949	Yes	Yes		WAP push secure (MMS)
2967	Yes	Yes		<a href="#">Symantec System Center</a> agent (SSC-AGENT)
	Unofficial			<a href="#">Cloud9 IDE</a> server <sup>[citation needed]</sup>
	Unofficial			<a href="#">Ruby on Rails</a> development default <sup>[171]</sup>
	Unofficial			<a href="#">Meteor</a> development default <sup>[172][failed verification]</sup>
3000	Unofficial	Unofficial		<a href="#">Resilio Sync</a> , <sup>[173]</sup> spun from BitTorrent Sync.
		Unofficial		<a href="#">Distributed Interactive Simulation</a> (DIS) <sup>[citation needed]</sup>
	Unofficial			GOGS (self-hosted GIT service) <sup>[174]</sup>
3004	Unofficial			<a href="#">iSync</a> <sup>[11]</sup>
3020	Yes	Yes		<a href="#">Common Internet File System</a> (CIFS). See also port 445 for <a href="#">Server Message Block</a> (SMB), a dialect of CIFS.
3050	Yes	Yes		gds-db ( <a href="#">Interbase</a> / <a href="#">Firebird</a> databases)
3052	Yes	Yes		<a href="#">APC PowerChute Network</a>
3074	Yes	Yes		Xbox LIVE and <a href="#">Games for Windows – Live</a>
3101	Unofficial			<a href="#">BlackBerry Enterprise Server</a> communication protocol <sup>[175]</sup>
3128	Unofficial	No		<a href="#">Squid</a> caching web proxy <sup>[176]</sup>
3225	Yes	Yes		<a href="#">Fibre Channel over IP</a> (FCIP)
3233	Yes	Yes		<a href="#">WhiskerControl</a> research control protocol
3260	Yes	Yes		<a href="#">iSCSI</a>
3268	Yes	Yes		msft-gc, Microsoft Global Catalog ( <a href="#">LDAP</a> service which contains data from <a href="#">Active Directory</a> forests)
3269	Yes	Yes		msft-gc-ssl, Microsoft Global Catalog over <a href="#">SSL</a> (similar to port 3268, <a href="#">LDAP</a> over <a href="#">SSL</a> )
	Yes	Yes		<i>Net Assistant</i> , <sup>[11]</sup> a predecessor to <i>Apple Remote Desktop</i>
3283	Unofficial	Unofficial		<a href="#">Apple Remote Desktop</a> 2.0 or later <sup>[11]</sup>
3290		Unofficial		<a href="#">Virtual Air Traffic Simulation</a> (VATSIM) network voice communication <sup>[citation needed]</sup>
3305	Yes	Yes		<a href="#">Odette File Transfer Protocol</a> (OFTP)
3306	Yes	Assigned		<a href="#">MySQL</a> database system <sup>[11]</sup>

Port	TCP	UDP	SCTP DCCP	Description
3323	Unofficial	Unofficial		<a href="#">DECE</a> GEODI Server
3332		Unofficial		Thundercloud DataPath Overlay Control
	Unofficial			<a href="#">Eggdrop</a> , an IRC bot default port <sup>[177]</sup>
3333	Unofficial			<a href="#">Network Caller ID</a> server
	Unofficial			<a href="#">CruiseControl.rb</a> <sup>[178]</sup>
3351	Unofficial			<a href="#">Pervasive PSQL</a> <sup>[136]</sup>
3386	Yes	Yes		<a href="#">GTP'</a> <a href="#">3GPP GSM/UMTS CDR</a> logging protocol
3389	Yes	Yes		Microsoft Terminal Server ( <a href="#">RDP</a> ) officially registered as Windows Based Terminal (WBT) <sup>[179]</sup>
3396	Yes	Yes		<a href="#">Novell</a> NDPS Printer Agent
3412	Yes	Yes		xmlBlaster
3423	Yes			Xware xTrm Communication Protocol
3424	Yes			Xware xTrm Communication Protocol over SSL
3455	Yes	Yes		<a href="#">Resource Reservation Protocol</a> (RSVP)
	Yes	Yes		<a href="#">STUN</a> , a protocol for NAT traversal <sup>[180]</sup>
3478	Yes	Yes		<a href="#">TURN</a> , a protocol for NAT traversal <sup>[181]</sup> (extension to STUN)
	Yes	Yes		STUN Behavior Discovery. <sup>[182]</sup> See also port 5349.
3479	Unofficial	Unofficial		<a href="#">PlayStation Network</a> <sup>[183]</sup>
3480	Unofficial	Unofficial		PlayStation Network <sup>[183]</sup>
		Yes		<a href="#">Slim Devices</a> discovery protocol
3483	Yes			<a href="#">Slim Devices</a> SlimProto protocol
3493	Yes	Yes		<a href="#">Network UPS Tools</a> (NUT)
3503	Yes	Yes		MPLS LSP-echo Port
3516	Yes	Yes		Smartcard Port
3527		Yes		<a href="#">Microsoft Message Queuing</a>
3535	Unofficial			<a href="#">SMTP</a> alternate <sup>[184]</sup>
3544		Yes		<a href="#">Teredo tunneling</a>
3632	Yes	Assigned		<a href="#">Distcc</a> , distributed compiler <sup>[11]</sup>
3645	Yes	Yes		<a href="#">Cyc</a>
	Yes	Yes		Apple <a href="#">SASL</a> , used by <a href="#">macOS Server</a> Password Server <sup>[11]</sup>
3659		Unofficial		Battlefield 4
3667	Yes	Yes		Information Exchange
3689	Yes	Assigned		<a href="#">Digital Audio Access Protocol</a> (DAAP), used by <a href="#">Apple's iTunes</a> and <a href="#">AirPlay</a> <sup>[11]</sup>
3690	Yes	Yes		<a href="#">Subversion (SVN)</a> <sup>[11]</sup> version control system
3702	Yes	Yes		<a href="#">Web Services Dynamic Discovery</a> (WS-Discovery), used by various components of <a href="#">Windows Vista</a> and later
	Yes	Yes		Some <a href="#">Blizzard</a> games <sup>[121]</sup>
3724	Unofficial			<a href="#">Club Penguin</a> Disney online game for kids
3725	Yes	Yes		Netia NA-ER Port
3749	Yes	Yes		<a href="#">CimTrak</a> registered port
3768	Yes	Yes		RBLcheckd server daemon
3784		Yes		Bidirectional Forwarding Detection (BFD)for IPv4 and IPv6 (Single Hop) (RFC 5881)

Port	TCP	UDP	SCTP	DCCP	Description
3785		Unofficial			VoIP program used by <a href="#">Ventrilo</a>
3799		Yes			<a href="#">RADIUS</a> change of authorization
3804	Yes	Yes			Harman Professional <a href="#">HiQnet</a> protocol
3825	Unofficial				RedSeal Networks client/server connection <sup>[citation needed]</sup>
	Yes	Yes			WarMUX game server
3826	Unofficial				RedSeal Networks client/server connection <sup>[citation needed]</sup>
3835	Unofficial				RedSeal Networks client/server connection <sup>[citation needed]</sup>
3830	Yes	Yes			System Management Agent, developed and used by Cerner to monitor and manage solutions
3856	Unofficial	Unofficial			ERP Server Application used by F10 Software
3880	Yes	Yes			IGRS
3868	Yes		Yes		<a href="#">Diameter</a> base protocol (RFC 3588)
3872	Yes				<a href="#">Oracle Enterprise Manager</a> Remote Agent
3900	Yes				udt_os, <a href="#">IBM UniData</a> UDT OS <sup>[185]</sup>
3960		Unofficial			<a href="#">Warframe</a> online interaction <sup>[citation needed]</sup>
3962		Unofficial			<a href="#">Warframe</a> online interaction <sup>[citation needed]</sup>
3978	Unofficial	Unofficial			<a href="#">OpenTTD</a> game (masterserver and content service)
3978	Unofficial				Palo Alto Networks' Panorama management of firewalls and log collectors & pre-PAN-OS 8.0 Panorama-to-managed devices software updates. <sup>[186]</sup>
3979	Unofficial	Unofficial			<a href="#">OpenTTD</a> game
3999	Yes	Yes			Norman distributed scanning service
4000	Unofficial	Unofficial			<a href="#">Diablo II</a> game
	Unofficial				<a href="#">Microsoft Ants</a> game
4001	Unofficial				CoreOS <a href="#">etcd</a> client communication
4018	Yes	Yes			Protocol information and warnings <sup>[clarification needed]</sup>
4035	Unofficial				<a href="#">IBM</a> Rational Developer for System z Remote System Explorer Daemon
4045	Unofficial	Unofficial			<a href="#">Solaris</a> lockd NFS lock daemon/manager
4050	Unofficial				Mud Master Chat protocol (MMCP) - Peer-to-peer communications between <a href="#">MUD</a> clients. <sup>[187]</sup>
4069		Yes			<a href="#">Minger Email Address Verification Protocol</a> <sup>[188]</sup>
4070	Unofficial	Unofficial			<a href="#">Amazon Echo</a> Dot ( <a href="#">Amazon Alexa</a> ) streaming connection with <a href="#">Spotify</a> <sup>[189]</sup>
4089	Yes	Yes			OpenCORE Remote Control Service
4090	Yes	Yes			<a href="#">Kerio</a>
4093	Yes	Yes			PxPlus Client server interface <a href="#">ProvideX</a>
4096	Yes	Yes			<a href="#">Ascom Timeplex</a> Bridge Relay Element (BRE)
4105	Yes	Yes			Shofar (ShofarNexus)
4111	Yes	Assigned			<a href="#">Xgrid</a> <sup>[11]</sup>
4116	Yes	Yes			Smartcard-TLS
4125	Unofficial				<a href="#">Microsoft Remote Web Workplace</a> administration
4172	Yes	Yes			<a href="#">Teradici PCoIP</a>
4190	Yes				ManageSieve <sup>[190]</sup>

Port	TCP	UDP	SCTP DCCP	Description
4198	Unofficial	Unofficial		Couch Potato Android app <sup>[191]</sup>
4201	Unofficial			<a href="#">TinyMUD</a> and various derivatives
4222	Unofficial			NATS server default port <sup>[192]</sup>
4226	Unofficial	Unofficial		<a href="#">Aleph One</a> , a computer game
4242	Unofficial			<a href="#">Orthanc</a> – <a href="#">DICOM</a> server <sup>[193]</sup>
	Unofficial			<a href="#">Quassel</a> distributed IRC client
4243	Unofficial			<a href="#">Docker</a> implementations, redistributions, and setups default <sup>[194]</sup> <sup>[needs update?]</sup>
	Unofficial			<a href="#">CrashPlan</a>
4244	Unofficial	Unofficial		<a href="#">Viber</a> <sup>[195]</sup>
4303	Yes	Yes		Simple Railroad Command Protocol (SRCP)
4307	Yes			<a href="#">TrueConf</a> Client - TrueConf Server media data exchange <sup>[196]</sup>
4321	Yes			<a href="#">Referral Whois (RWhois) Protocol</a> <sup>[197]</sup>
	Unofficial	Unofficial		<a href="#">Oracle</a> WebCenter Content: Content Server—Intradoc Socket port. (formerly known as Oracle <a href="#">Universal Content Management</a> ).
4444	Unofficial			<a href="#">Metasploit</a> 's default listener port <sup>[198]</sup>
	Unofficial	Unofficial		<a href="#">Xvfb</a> X server virtual frame buffer service
4444–4445	Unofficial			<a href="#">I2P</a> HTTP/S proxy
4486	Yes	Yes		Integrated Client Message Service (ICMS)
4488	Yes	Assigned		Apple Wide Area Connectivity Service, used by <a href="#">Back to My Mac</a> <sup>[11]</sup>
4500	Assigned	Yes		<a href="#">IPSec NAT Traversal</a> <sup>[11]</sup> (RFC 3947, RFC 4306)
4502–4534	Yes			Microsoft Silverlight connectable ports under non-elevated trust
4505–4506	Unofficial			<a href="#">Salt</a> master
4534		Unofficial		<a href="#">Armagetron Advanced</a> server default
4560	Unofficial			default <a href="#">Log4j</a> socketappender port
4567	Unofficial			<a href="#">Sinatra</a> default server port in development mode (HTTP)
4569		Yes		<a href="#">Inter-Asterisk eXchange</a> (IAX2)
4604	Yes			<a href="#">Identity Registration Protocol</a>
4605	Yes			<a href="#">Direct End to End Secure Chat Protocol</a>
4610–4640	Unofficial			<a href="#">QualiSystems</a> TestShell Suite Services
4662	Yes	Yes		OrbitNet Message Service
	Unofficial			Default for older versions of <a href="#">eMule</a> <sup>[199]</sup>
4664	Unofficial			<a href="#">Google Desktop Search</a>
4672		Unofficial		Default for older versions of <a href="#">eMule</a> <sup>[199]</sup>
4711	Unofficial			<a href="#">eMule</a> optional web interface <sup>[199]</sup>
4713	Unofficial			<a href="#">PulseAudio</a> sound server
4728	Yes			Computer Associates Desktop and Server Management (DMP)/Port Multiplexer <sup>[200]</sup>
4730	Yes	Yes		<a href="#">Gearman</a> 's job server
4739	Yes	Yes		<a href="#">IP Flow Information Export</a>



Port	TCP	UDP	SCTP	DCCP	Description
4747	Unofficial				<a href="#">Apprentice</a>
4753	Yes	Yes			SIMON (service and discovery)
4789		Yes			Virtual eXtensible Local Area Network ( <a href="#">VXLAN</a> )
4791		Yes			<a href="#">IP Routable RocE</a> (RoCEv2)
4840	Yes	Yes			OPC UA Connection Protocol (TCP) and OPC UA Multicast Datagram Protocol (UDP) for <a href="#">OPC Unified Architecture</a> from <a href="#">OPC Foundation</a>
4843	Yes	Yes			OPC UA TCP Protocol over TLS/SSL for <a href="#">OPC Unified Architecture</a> from <a href="#">OPC Foundation</a>
4847	Yes	Yes			Web Fresh Communication, Quadrion Software & Odorless Entertainment
4848	Unofficial				Java, Glassfish Application Server administration default
4894	Yes	Yes			<a href="#">LysKOM</a> Protocol A
4944	No	Unofficial			<a href="#">DrayTek</a> DSL Status Monitoring <sup>[201]</sup>
4949	Yes				Munin Resource Monitoring Tool
4950	Yes	Yes			Cylon Controls UC32 Communications Port
	Unofficial				<a href="#">UPnP</a> —Windows network device interoperability
	Unofficial	Unofficial			<a href="#">VTun</a> , <a href="#">VPN</a> Software
	Unofficial				<a href="#">ASP.NET Core</a> — Development Webserver
		Unofficial			<a href="#">FlightGear</a> multiplayer <sup>[202]</sup>
	Unofficial				<a href="#">Synology Inc.</a> Management Console, File Station, Audio Station
	Unofficial				<a href="#">Flask</a> Development Webserver
5000	Unofficial				<a href="#">Heroku</a> console access
	Unofficial				<a href="#">Docker</a> Registry <sup>[203]</sup>
	Unofficial				<a href="#">AT&amp;T U-verse public, educational, and government access</a> (PEG) streaming over <a href="#">HTTP</a> <sup>[204]</sup>
	Unofficial				<a href="#">High-Speed SECS Message Services</a> <sup>[citation needed]</sup>
	Unofficial				<a href="#">3CX Phone System</a> Legacy Management Console
	Unofficial				RidgeRun GStreamer Daemon (GSTD) <sup>[205]</sup>
5000–5500	No	Unofficial			<a href="#">League of Legends</a> , a <a href="#">multiplayer online battle arena</a> video game <sup>[206]</sup>
	Unofficial				<a href="#">Slingbox</a> and Slingplayer
	Unofficial	Unofficial			<a href="#">Iperf</a> (Tool for measuring TCP and UDP bandwidth performance)
5001	Unofficial				<a href="#">Synology Inc.</a> Secured Management Console, File Station, Audio Station
	Unofficial				<a href="#">3CX Phone System</a> Secured Management Console, Secure API
5002	Unofficial				ASSA ARX access control system <sup>[207]</sup>
5003	Yes	Assigned			<a href="#">FileMaker</a> – name binding and transport <sup>[11]</sup>
5004	Yes	Yes	Yes		<a href="#">Real-time Transport Protocol</a> media data (RTP) (RFC 3551, RFC 4571)
5005	Yes	Yes	Yes		<a href="#">Real-time Transport Protocol control protocol</a> (RTCP) (RFC 3551, RFC 4571)
5007	Unofficial				Palo Alto Networks - User-ID agent
	Yes	Yes			Registered to: TelePath (the IBM FlowMark <a href="#">workflow-management system</a> messaging platform) <sup>[208]</sup>
5010	Yes	Yes			The TCP port is now used for: IBM <a href="#">WebSphere MQ</a> Workflow

Port	TCP	UDP	SCTP DCCP	Description
5011	Yes	Yes		TelePath (the IBM FlowMark <a href="#">workflow-management system</a> messaging platform) <sup>[208]</sup>
5025	Yes	Yes		scpi-raw <a href="#">Standard Commands for Programmable Instruments</a>
5029		Unofficial		Sonic Robo Blast 2 and Sonic Robo Blast 2 Kart servers
5031	Unofficial	Unofficial		AVM CAPI-over-TCP ( <a href="#">ISDN</a> over <a href="#">Ethernet</a> tunneling) <sup>[citation needed]</sup>
5037	Unofficial			Android ADB server
5044	Yes			Standard port in Filebeats/Logstash implementation of Lumberjack protocol.
5048	Yes			Texai Message Service
5050	Unofficial			<a href="#">Yahoo! Messenger</a>
5051	Yes			ita-agent <a href="#">Symantec</a> Intruder Alert <sup>[209]</sup>
5060	Yes	Yes		<a href="#">Session Initiation Protocol</a> (SIP) <sup>[11]</sup>
5061	Yes			<a href="#">Session Initiation Protocol</a> (SIP) over <a href="#">TLS</a>
5062	Yes	Yes		Localisation access
5064	Yes	Yes		<a href="#">EPICS</a> Channel Access server <sup>[210]</sup>
5065	Assigned	Yes		<a href="#">EPICS</a> Channel Access repeater beacon <sup>[210]</sup>
5070	Unofficial	No		<a href="#">Binary Floor Control Protocol</a> (BFCP) <sup>[211]</sup>
5084	Yes	Yes		<a href="#">EPCglobal</a> Low Level Reader Protocol ( <a href="#">LLRP</a> )
5085	Yes	Yes		<a href="#">EPCglobal</a> Low Level Reader Protocol ( <a href="#">LLRP</a> ) over <a href="#">TLS</a>
5090	Unofficial	Unofficial		<a href="#">3CX Phone System</a> 3CX Tunnel Protocol, 3CX App API, 3CX Session Border Controller
5093		Yes		<a href="#">SafeNet, Inc</a> Sentinel LM, Sentinel RMS, License Manager, client-to-server
5099	Yes	Yes		SafeNet, Inc Sentinel LM, Sentinel RMS, License Manager, server-to-server
5104	Unofficial			<a href="#">IBM Tivoli Framework</a> NetCOOL/Impact <sup>[212]</sup> <a href="#">HTTP</a> Service
5121	Unofficial			<a href="#">Neverwinter Nights</a>
5124	Unofficial	Unofficial		TorgaNET ( <a href="#">Micronational Darknet</a> )
5125	Unofficial	Unofficial		TorgaNET ( <a href="#">Micronational</a> Intelligence <a href="#">Darknet</a> )
5150	Yes	Yes		ATMP Ascend Tunnel Management Protocol <sup>[213]</sup>
5151	Yes			<a href="#">ESRI</a> SDE Instance
5151		Yes		<a href="#">ESRI</a> SDE Remote Start
5154	Yes	Yes		<a href="#">BZFlag</a>
5172	Yes			PC over IP Endpoint Management <sup>[214]</sup>
5190	Yes	Yes		<a href="#">AOL Instant Messenger</a> protocol. <sup>[11]</sup> The chat app is defunct as of 15 December 2017. <sup>[215]</sup>
5198		Unofficial		<a href="#">EchoLink</a> VoIP Amateur Radio Software (Voice)
5199		Unofficial		<a href="#">EchoLink</a> VoIP Amateur Radio Software (Voice)
5200	Unofficial			<a href="#">EchoLink</a> VoIP Amateur Radio Software (Information)
5201	Unofficial	Unofficial		<a href="#">Iperf3</a> (Tool for measuring TCP and UDP bandwidth performance)
5222	Yes	Reserved		<a href="#">Extensible Messaging and Presence Protocol</a> (XMPP) client connection <sup>[11][216][217]</sup>
5223	Unofficial			<a href="#">Apple Push Notification Service</a> <sup>[11][153]</sup>
5223	Unofficial			Extensible Messaging and Presence Protocol (XMPP) client

Port	TCP	UDP	SCTP DCCP	Description
				connection over <a href="#">SSL</a>
	Yes			HP Virtual Room Service
5228	Unofficial			<a href="#">Google Play</a> , <a href="#">Android Cloud to Device Messaging Service</a> , <a href="#">Google Cloud Messaging</a>
5242	Unofficial	Unofficial		<a href="#">Viber</a> <sup>[195]</sup>
5243	Unofficial	Unofficial		Viber <sup>[195]</sup>
5246		Yes		Control And Provisioning of Wireless Access Points ( <a href="#">CAPWAP</a> ) CAPWAP control <sup>[218]</sup>
5247		Yes		Control And Provisioning of Wireless Access Points (CAPWAP) CAPWAP data <sup>[218]</sup>
5269	Yes			Extensible Messaging and Presence Protocol (XMPP) server-to-server connection <sup>[11][216][217]</sup>
5280	Yes			Extensible Messaging and Presence Protocol (XMPP) <sup>[219]</sup>
5281	Unofficial			Extensible Messaging and Presence Protocol (XMPP) <sup>[220]</sup>
5298	Yes	Yes		Extensible Messaging and Presence Protocol (XMPP) <sup>[221]</sup>
5310	Assigned	Yes		<a href="#">Outlaws</a> , a 1997 first-person shooter video game <sup>[citation needed]</sup>
5318	Yes	Reserved		<a href="#">Certificate Management over CMS</a> <sup>[222]</sup>
	Yes	Yes		<a href="#">STUN</a> over <a href="#">TLS/DTLS</a> , a protocol for <a href="#">NAT traversal</a> <sup>[180]</sup>
5349	Yes	Yes		<a href="#">TURN</a> over TLS/DTLS, a protocol for NAT traversal <sup>[181]</sup>
	Yes	Reserved		STUN Behavior Discovery over TLS. <sup>[182]</sup> See also port 3478.
5351	Reserved	Yes		<a href="#">NAT Port Mapping Protocol</a> and <a href="#">Port Control Protocol</a> —client-requested configuration for connections through <a href="#">network address translators</a> and <a href="#">firewalls</a>
5353	Assigned	Yes		<a href="#">Multicast DNS</a> (mDNS) <sup>[11]</sup>
5355	Yes	Yes		<a href="#">Link-Local Multicast Name Resolution</a> (LLMNR), allows <a href="#">hosts</a> to perform <a href="#">name resolution</a> for hosts on the same <a href="#">local link</a> (only provided by <a href="#">Windows Vista</a> and <a href="#">Server 2008</a> )
5357	Unofficial	Unofficial		<a href="#">Web Services for Devices</a> (WSDAPI) (only provided by Windows Vista, Windows 7 and Server 2008)
5358	Unofficial	Unofficial		<a href="#">WSDAPI</a> Applications to Use a Secure Channel (only provided by Windows Vista, Windows 7 and Server 2008)
5394		Unofficial		Kega Fusion, a Sega multi-console emulator <sup>[223][224]</sup>
5402	Yes	Yes		<a href="#">Multicast File Transfer Protocol</a> (MFTP) <sup>[225][importance?]</sup>
5405	Yes	Yes		<a href="#">NetSupport Manager</a>
5412	Yes	Yes		<a href="#">IBM</a> Rational Synergy ( <a href="#">Telelogic Synergy</a> ) (Continuus CM) Message Router
5413	Yes	Yes		<a href="#">Wonderware</a> SuiteLink service
5417	Yes	Yes		SNS Agent
5421	Yes	Yes		<a href="#">NetSupport Manager</a>
5432	Yes	Assigned		<a href="#">PostgreSQL</a> <sup>[11]</sup> database system
5433	Unofficial			Bouwsoft file/webserver <sup>[226]</sup>
5445		Unofficial		Cisco Unified Video Advantage <sup>[citation needed]</sup>
5450	Unofficial	Unofficial		<a href="#">OSisoft</a> PI Server Client Access <sup>[227]</sup>
5457	Unofficial			<a href="#">OSisoft</a> PI Asset Framework Client Access <sup>[228]</sup>
5458	Unofficial			<a href="#">OSisoft</a> PI Notifications Client Access <sup>[229]</sup>

Port	TCP	UDP	SCTP	DCCP	Description
5480	Unofficial				<a href="#">VMware</a> VAMI (Virtual Appliance Management Infrastructure)—used for initial setup of various administration settings on Virtual Appliances designed using the VAMI architecture.
5481	Unofficial				<a href="#">Schneider Electric</a> 's ClearSCADA ( <a href="#">SCADA</a> implementation for Windows) — used for client-to-server communication. <sup>[230]</sup>
5495	Unofficial				<a href="#">IBM Cognos TM1</a> Admin server
5498	Unofficial				<a href="#">Hotline</a> tracker server connection
5499		Unofficial			Hotline tracker server discovery
	Unofficial				Hotline control connection
5500	Unofficial				<a href="#">VNC</a> Remote Frame Buffer <a href="#">RFB protocol</a> —for incoming listening viewer
5501	Unofficial				Hotline file transfer connection
5517	Unofficial				<a href="#">Setiqueue</a> Proxy server client for <a href="#">SETI@Home</a> project
5550	Unofficial				<a href="#">Hewlett-Packard</a> Data Protector <sup>[citation needed]</sup>
5554	Unofficial	Unofficial			<a href="#">Fastboot</a> default wireless port
	Unofficial	Unofficial			<a href="#">Oracle</a> WebCenter Content: Inbound Refinery—Intradoc Socket port. (formerly known as Oracle <a href="#">Universal Content Management</a> ). Port though often changed during installation
5555	Unofficial				<a href="#">Freeciv</a> versions up to 2.0, <a href="#">Hewlett-Packard</a> Data Protector, <a href="#">McAfee EndPoint Encryption</a> Database Server, <a href="#">SAP</a> , Default for Microsoft Dynamics CRM 4.0, Softether VPN default port
5556	Yes	Yes			<a href="#">Freeciv</a> , Oracle WebLogic Server Node Manager <sup>[231]</sup>
5568	Yes	Yes			Session Data Transport (SDT), a part of <a href="#">Architecture for Control Networks</a> (ACN) <sup>[232]</sup> <sup>[full citation needed]</sup>
5601	Unofficial				<a href="#">Kibana</a> <sup>[citation needed]</sup>
5631	Yes				pcANYWHEREdata, <a href="#">Symantec pcAnywhere</a> (version 7.52 and later <sup>[233]</sup> <sup>[234]</sup> data
5632		Yes			pcANYWHEREstat, Symantec pcAnywhere (version 7.52 and later) status
5656	Unofficial				<a href="#">IBM Lotus Sametime</a> p2p file transfer
5666	Unofficial				<a href="#">NRPE</a> ( <a href="#">Nagios</a> )
5667	Unofficial				NCSA ( <a href="#">Nagios</a> )
	Yes				<a href="#">FILEMQ</a> ZeroMQ File Message Queuing Protocol
5670		Yes			<a href="#">ZRE-DISC</a> ZeroMQ Realtime Exchange Protocol (Discovery)
5671	Yes	Assigned			<a href="#">Advanced Message Queuing Protocol</a> (AMQP) <sup>[235]</sup> over <a href="#">TLS</a>
5672	Yes	Assigned	Yes		Advanced Message Queuing Protocol (AMQP) <sup>[235]</sup>
5683	Yes	Yes			<a href="#">Constrained Application Protocol</a> (CoAP)
5684	Yes	Yes			Constrained Application Protocol Secure (CoAPs)
5693	Unofficial				<a href="#">Nagios</a> Cross Platform Agent (NCPA) <sup>[236]</sup>
5701	Unofficial				<a href="#">Hazelcast</a> default communication port <sup>[237]</sup>
5718	Unofficial				Microsoft DPM Data Channel (with the agent coordinator)
5719	Unofficial				Microsoft DPM Data Channel (with the protection agent)
5722	Yes	Yes			Microsoft RPC, DFSR (SYSVOL) Replication Service <sup>[citation needed]</sup>
5723	Unofficial				<a href="#">System Center Operations Manager</a> <sup>[238]</sup>
5724	Unofficial				Operations Manager Console

Port	TCP	UDP	SCTP DCCP	Description
5741	Yes	Yes		IDA Discover Port 1
5742	Yes	Yes		IDA Discover Port 2
5800	Unofficial			<a href="#">VNC</a> Remote Frame Buffer <a href="#">RFB protocol</a> over <a href="#">HTTP</a>
	Unofficial			<a href="#">ProjectWise Server</a> <sup>[239]</sup>
5900	Yes	Yes		<a href="#">Remote Frame Buffer protocol</a> (RFB)
	Unofficial			<a href="#">Virtual Network Computing</a> (VNC) Remote Frame Buffer <a href="#">RFB protocol</a> <sup>[11][240]</sup>
5905	Unofficial			Windows service "C:\Program Files\Intel\Intel(R) Online Connect Access\IntelTechnologyAccessService.exe" that listens on 127.0.0.1
5931	Yes	Yes		<a href="#">AMMY</a> admin Remote Control
5938	Unofficial	Unofficial		<a href="#">TeamViewer</a> remote desktop protocol <sup>[241]</sup>
5984	Yes	Yes		<a href="#">CouchDB</a> database server
5985	Yes			<a href="#">Windows PowerShell</a> Default psSession Port <sup>[242]</sup> <a href="#">Windows Remote Management Service</a> (WinRM-HTTP) <sup>[243]</sup>
5986	Yes			Windows PowerShell Default psSession Port <sup>[242]</sup> <a href="#">Windows Remote Management Service</a> (WinRM-HTTPS) <sup>[243]</sup>
5988–5989	Yes			<a href="#">CIM-XML</a> (DMTF Protocol) <sup>[244]</sup>
6000–6063	Yes	Yes		<a href="#">X11</a> —used between an X client and server over the network
6005	Unofficial			Default for <a href="#">BMC Software Control-M/Server</a> —Socket used for communication between Control-M processes—though often changed during installation
	Unofficial			Default for <a href="#">Camfrog</a> chat & cam client
6009	Unofficial			<a href="#">JD Edwards EnterpriseOne</a> ERP system JDENet messaging client listener
6050	Unofficial			<a href="#">Arcserve</a> backup
6051	Unofficial			Arcserve backup
6086	Yes			<a href="#">Peer Distributed Transfer Protocol</a> (PDTP), FTP like file server in a P2P network
6100	Unofficial			<a href="#">Vizrt</a> System
	Unofficial			<a href="#">Ventrilo</a> authentication for version 3
6101	Unofficial			Backup Exec Agent Browser <sup>[citation needed]</sup>
6110	Yes	Yes		softcm, <a href="#">HP Softbench</a> CM
6111	Yes	Yes		spc, <a href="#">HP Softbench</a> Sub-Process Control
	Yes	Yes		dtspcd, execute commands and launch applications remotely
6112	Unofficial	Unofficial		<a href="#">Blizzard</a> 's <a href="#">Battle.net</a> gaming service and some games, <sup>[121]</sup> <a href="#">ArenaNet</a> gaming service, <a href="#">Relic</a> gaming service
	Unofficial			<a href="#">Club Penguin</a> Disney online game for kids
6113	Unofficial			<a href="#">Club Penguin</a> Disney online game for kids, Used by some <a href="#">Blizzard</a> games <sup>[121]</sup>
6136	Unofficial			<a href="#">ObjectDB</a> database server <sup>[245]</sup>
6159	Yes			<a href="#">ARINC</a> 840 <a href="#">EFB</a> Application Control Interface
6200	Unofficial			<a href="#">Oracle WebCenter</a> Content Portable: Content Server (With Native UI) and Inbound Refinery

Port	TCP	UDP	SCTP DCCP	Description
6201	Assigned	Assigned		Thermo-Calc Software AB: Management of service nodes in a processing grid for thermodynamic calculations
	Unofficial			Oracle WebCenter Content Portable: Admin
6225	Unofficial			Oracle WebCenter Content Portable: Content Server Web UI
6227	Unofficial			Oracle WebCenter Content Portable: JavaDB
6240	Unofficial			Oracle WebCenter Content Portable: Capture
6244	Unofficial	Unofficial		Oracle WebCenter Content Portable: Content Server—Intradoc Socket port
6255	Unofficial	Unofficial		Oracle WebCenter Content Portable: Inbound Refinery—Intradoc Socket port
6257		Unofficial		<a href="#">WinMX</a> (see also 6699)
6260	Unofficial	Unofficial		planet M.U.L.E.
6262	Unofficial			Sybase <a href="#">Advantage Database Server</a>
6343		Yes		<a href="#">SFlow</a> , sFlow traffic monitoring
6346	Yes	Yes		<a href="#">gnutella-svc</a> , gnutella ( <a href="#">FrostWire</a> , <a href="#">Limewire</a> , <a href="#">Shareaza</a> , etc.)
6347	Yes	Yes		gnutella-rtr, Gnutella alternate
6350	Yes	Yes		App Discovery and Access Protocol
6379	Yes			<a href="#">Redis</a> key-value data store
6389	Unofficial			<a href="#">EMC CLARiiON</a>
6432	Yes			PgBouncer—A connection pooler for PostgreSQL
6436	Unofficial			<a href="#">Leap Motion</a> Websocket Server TLS
6437	Unofficial			Leap Motion Websocket Server
6444	Yes	Yes		<a href="#">Sun Grid Engine</a> Qmaster Service
6445	Yes	Yes		Sun Grid Engine Execution Service
6463–6472	Unofficial			<a href="#">Discord</a> RPC <sup>[246]</sup>
6464	Yes	Yes		Port assignment for medical device communication in accordance to <a href="#">IEEE 11073-20701</a>
6502	Unofficial	Unofficial		Netop Remote Control
6513	Yes			<a href="#">NETCONF</a> over <a href="#">TLS</a>
6514	Yes			Syslog over TLS <sup>[247]</sup>
6515	Yes	Yes		<a href="#">Eclipse</a> RPC Protocol (REC)
6516	Unofficial			<a href="#">Windows Admin Center</a>
6543	Unofficial			<a href="#">Pylons project#Pyramid</a> Default Pylons Pyramid web service port
6556	Unofficial			<a href="#">Check MK</a> Agent
6566	Yes			<a href="#">SANE</a> (Scanner Access Now Easy)—SANE network scanner daemon <sup>[248]</sup>
6560–6561	Unofficial			<a href="#">Speech-Dispatcher</a> daemon <sup>[citation needed]</sup>
6571	Unofficial			<a href="#">Windows Live FolderShare</a> client
	Yes			Microsoft <a href="#">Hyper-V</a> Live
6600	Unofficial			<a href="#">Music Player Daemon</a> (MPD)
6601	Yes			<a href="#">Microsoft Forefront Threat Management Gateway</a>
6602	Yes			Microsoft Windows WSS Communication

Port	TCP	UDP	SCTP DCCP	Description
6619	Yes	Yes		odette-ftp, <a href="#">Odette File Transfer Protocol (OFTP)</a> over <a href="#">TLS/SSL</a>
6622	Yes	Yes		Multicast FTP
6653	Yes	Assigned		<a href="#">OpenFlow</a> <sup>[citation needed]</sup>
6660–6664	Unofficial			<a href="#">Internet Relay Chat</a> (IRC)
6665–6669	Yes			<a href="#">Internet Relay Chat</a> (IRC)
6679	Yes	Yes		Osorno Automation Protocol (OSAUT)
6690	Unofficial			<a href="#">IRC SSL</a> (Secure Internet Relay Chat)—often used
6697	Yes			Synology Cloud station
6699	Unofficial			<a href="#">IRC SSL</a> (Secure Internet Relay Chat)—often used
6715	Unofficial			<a href="#">WinMX</a> (see also 6257)
6771		Unofficial		AberMUD and derivatives default port
6783–6785	Unofficial			BitTorrent <a href="#">Local Peer Discovery</a>
6801	Yes	Yes		BitTorrent <a href="#">Splashtop Remote</a> server broadcast
6881–6887	Unofficial	Unofficial		ACNET Control System Protocol
6888	Yes	Yes		<a href="#">BitTorrent</a> part of full range of ports used most often
6889–6890	Unofficial	Unofficial		MUSE
6891–6900	Unofficial	Unofficial		BitTorrent part of full range of ports used most often
6891–6900	Unofficial	Unofficial		BitTorrent part of full range of ports used most often
6901	Unofficial	Unofficial		BitTorrent part of full range of ports used most often
6902–6968	Unofficial	Unofficial		<a href="#">Windows Live Messenger</a> (File transfer)
6924	Yes	Yes		<a href="#">Windows Live Messenger</a> (Voice)
6969	Unofficial			BitTorrent part of full range of ports used most often
6970–6999	Unofficial	Unofficial		BitTorrent part of full range of ports used most often
7000	Unofficial			<a href="#">QuickTime Streaming Server</a> <sup>[11]</sup>
7001	Unofficial			Default for <a href="#">Vuze</a> 's built-in <a href="#">HTTPS Bittorrent Tracker</a>
7002	Unofficial			<a href="#">Avira</a> Server Management Console
7005	Unofficial			<a href="#">Avira</a> Server Management Console
	Unofficial			Default for <a href="#">BEA WebLogic Server</a> 's <a href="#">HTTP</a> server, though often changed during installation
	Unofficial			Default for BEA WebLogic Server's <a href="#">HTTPS</a> server, though often changed during installation
	Unofficial			Default for <a href="#">BMC Software Control-M/Server</a> and Control-M/Agent for Agent-to-Server, though often changed during installation

Port	TCP	UDP	SCTP DCCP	Description
7006	Unofficial			Default for BMC Software Control-M/Server and Control-M/Agent for Server-to-Agent, though often changed during installation
7010	Unofficial			Default for Cisco AON AMC (AON Management Console) <sup>[249]</sup>
7022	Unofficial			Database mirroring endpoints <sup>[250]</sup>
7023		Yes		Bryan Wilcutt T2-NMCS Protocol for SatCom Modems
7025	Unofficial			Zimbra <a href="#">LMTP</a> [mailbox]—local mail delivery
7047	Unofficial			<a href="#">Zimbra</a> conversion server
7070	Unofficial	Unofficial		<a href="#">Real Time Streaming Protocol</a> (RTSP), used by <a href="#">QuickTime Streaming Server</a> . TCP is used by default, UDP is used as an alternate. <sup>[11]</sup>
7133	Unofficial			<a href="#">Enemy Territory: Quake Wars</a>
7144	Unofficial			Peercast <sup>[citation needed]</sup>
7145	Unofficial			Peercast <sup>[citation needed]</sup>
7171	Unofficial			<a href="#">Tibia</a>
7262	Yes	Yes		CNAP (Calypso Network Access Protocol)
7272	Yes	Yes		WatchMe - WatchMe Monitoring
7306	Unofficial			Zimbra mysql [mailbox] <sup>[citation needed]</sup>
7307	Unofficial			Zimbra mysql [logger] <sup>[citation needed]</sup>
7312		Unofficial		<a href="#">Sibelius</a> License Server
7396	Unofficial			Web control interface for <a href="#">Folding@home v7.3.6</a> and later <sup>[251]</sup>
7400	Yes	Yes		RTPS (Real Time Publish Subscribe) <a href="#">DDS</a> Discovery
7401	Yes	Yes		RTPS (Real Time Publish Subscribe) <a href="#">DDS</a> User-Traffic
7402	Yes	Yes		RTPS (Real Time Publish Subscribe) <a href="#">DDS</a> Meta-Traffic
7471	Unofficial			Stateless Transport Tunneling (STT)
7473	Yes			<a href="#">Rise: The Vieneo Province</a>
7474	Yes			Neo4J Server webadmin <sup>[252]</sup>
7478	Yes			Default port used by <a href="#">Open iT</a> Server. <sup>[253]</sup>
7542	Yes	Yes		<i>Saratoga</i> file transfer protocol <sup>[254][255]</sup>
7547	Yes	Yes		CPE WAN Management Protocol (CWMP) <a href="#">Technical Report 069</a>
7575		Unofficial		<a href="#">Populous: The Beginning</a> server
7624	Yes	Yes		<a href="#">Instrument Neutral Distributed Interface</a>
7631	Yes			ERLPhase
7634	Unofficial			hddtemp—Utility to monitor hard drive temperature
7652–7654	Unofficial			<a href="#">I2P</a> anonymizing overlay network
7655		Unofficial		I2P SAM Bridge Socket API
7656–7660	Unofficial			I2P anonymizing overlay network
7670	Unofficial			<a href="#">BrettspielWelt</a> BSW Boardgame Portal
7680	Unofficial			Delivery Optimization for <a href="#">Windows 10</a> <sup>[256]</sup>
7687	Yes			<a href="#">Bolt</a> database connection
7707–7708		Unofficial		<a href="#">Killing Floor</a>
7717		Unofficial		<i>Killing Floor</i>
7777	Unofficial			<a href="#">iChat</a> server file transfer proxy <sup>[11]</sup>



Port	TCP	UDP	SCTP DCCP	Description
	Unofficial			Oracle Cluster File System 2 <sup>[citation needed]</sup>
	Unofficial			Windows backdoor program tini.exe default <sup>[citation needed]</sup>
	Unofficial			<i>Just Cause 2: Multiplayer Mod Server</i> <sup>[citation needed]</sup>
	Unofficial			<a href="#">Terraria</a> default server
		Unofficial		<i>San Andreas Multiplayer (SA-MP)</i> default port server
		Unofficial		<i>SCP: Secret Laboratory</i> Multiplayer Server
7777–7788	Unofficial	Unofficial		<i>Unreal Tournament</i> series default server <sup>[citation needed]</sup>
7831	Unofficial			Default used by Smartlaunch Internet Cafe Administration <sup>[257]</sup> software
7880	Unofficial	Unofficial		PowerSchool Gradebook Server <sup>[citation needed]</sup>
7890	Unofficial			Default that will be used by the iControl Internet Cafe Suite Administration software
7915	Unofficial			Default for YSFlight server <sup>[258]</sup>
7935	Unofficial			Fixed port used for Adobe Flash Debug Player to communicate with a debugger (Flash IDE, Flex Builder or fdb). <sup>[259]</sup>
7946	Unofficial	Unofficial		Docker Swarm communication among nodes <sup>[159]</sup>
7979		Unofficial		Used by SilverBluff Studios for communication between servers and clients. <sup>[citation needed]</sup>
7990	Unofficial			Atlassian <a href="#">Bitbucket</a> (default port) <sup>[citation needed]</sup>
	Unofficial			Commonly used for Internet radio streams such as <a href="#">SHOUTcast</a> <sup>[citation needed]</sup> , <a href="#">Icecast</a> <sup>[citation needed]</sup> and <a href="#">iTunes Radio</a> <sup>[11]</sup>
8000	Unofficial			<a href="#">DynamoDB</a> Local <sup>[260]</sup>
	Unofficial			<a href="#">Django</a> Development Webserver <sup>[261]</sup>
8005	Unofficial			<a href="#">Tomcat</a> remote shutdown <sup>[11]</sup>
	Unofficial			<a href="#">PLATO</a> ASCII protocol (RFC 600)
8006	Unofficial	No		<a href="#">Quest AppAssure 5 API</a> <sup>[262]</sup>
	Unofficial			<a href="#">Proxmox Virtual Environment</a> admin web interface <sup>[263]</sup>
8007	Unofficial			Quest AppAssure 5 Engine <sup>[262]</sup>
8007	Yes			<a href="#">Proxmox Backup Server</a> admin web interface
	Unofficial	Unofficial		Alternative port for <a href="#">HTTP</a> . See also ports 80 and 8080.
8008	Unofficial			<a href="#">IBM HTTP Server</a> administration default <sup>[importance?]</sup>
	Unofficial			<a href="#">iCal</a> , a calendar application by <a href="#">Apple</a> <sup>[11]</sup>
	Unofficial	No		<a href="#">Matrix</a> homeserver federation over <a href="#">HTTP</a> <sup>[264]</sup>
8009	Unofficial			<a href="#">Apache JServ Protocol</a> (ajp13) <sup>[citation needed]</sup>
8010	Unofficial	No		<a href="#">Buildbot</a> web status page <sup>[citation needed]</sup>
8042	Unofficial			<a href="#">Orthanc</a> – REST API over <a href="#">HTTP</a> <sup>[193]</sup>
8069	Unofficial			<a href="#">OpenERP</a> 5.0 XML-RPC protocol <sup>[265]</sup>
8070	Unofficial			OpenERP 5.0 NET-RPC protocol <sup>[265]</sup>
8074	Yes	Yes		<a href="#">Gadu-Gadu</a>
8075	Unofficial			<i>Killing Floor</i> web administration interface <sup>[citation needed]</sup>
	Yes	Yes		Alternative port for <a href="#">HTTP</a> . See also ports 80 and 8080.
8080	Unofficial			<a href="#">Apache Tomcat</a> <sup>[266]</sup>
	Unofficial			<a href="#">Atlassian JIRA</a> applications <sup>[267]</sup>

Port	TCP	UDP	SCTP DCCP	Description
8088	Unofficial			<a href="#">Asterisk</a> management access via HTTP <sup>[citation needed]</sup>
8089	Unofficial	No		<a href="#">Splunk</a> daemon management <sup>[268]</sup>
	Unofficial			<a href="#">Fritz!Box</a> automatic <a href="#">TR-069</a> configuration <sup>[269]</sup>
	Unofficial			<a href="#">Atlassian Confluence</a> <sup>[270]</sup>
8090	Unofficial			<a href="#">Coral Content Distribution Network</a> (legacy; 80 and 8080 now supported) <sup>[271]</sup>
	Unofficial			Matrix identity server <sup>[citation needed]</sup>
8091	Unofficial			<a href="#">CouchBase</a> web administration <sup>[272]</sup>
8092	Unofficial			CouchBase API <sup>[272]</sup>
8111	Unofficial			<a href="#">JOSM</a> Remote Control
8112	Unofficial			PAC Pacifica Coin
8116		Unofficial		<a href="#">Check Point</a> Cluster Control Protocol
8118	Yes			<a href="#">Privoxy</a> —advertisement-filtering Web proxy
	Yes			<a href="#">Polipo</a> Web proxy
8123	Unofficial			<a href="#">BURST Reference Software</a> P2P
8124	Unofficial			Standard <a href="#">BURST</a> Mining Pool Software Port
8125	Unofficial			<a href="#">BURST Reference Software</a> Web Interface
8139	Unofficial			<a href="#">Puppet (software)</a> Client agent
8140	Yes			Puppet (software) Master server
8172	Unofficial			<a href="#">Microsoft</a> Remote Administration for IIS Manager <sup>[273]</sup>
8184	Unofficial			<a href="#">NCSA Brown Dog</a> Data Access Proxy
8194–8195	Yes			<a href="#">Bloomberg Terminal</a> <sup>[274]</sup>
8200	Unofficial			<a href="#">GoToMyPC</a>
	Unofficial			MiniDLNA media server Web Interface
8222	Unofficial			<a href="#">VMware</a> VI Web Access via HTTP <sup>[275]</sup>
8243	Yes	Yes		<a href="#">HTTPS</a> listener for <a href="#">Apache Synapse</a> <sup>[276]</sup>
8245	Unofficial			<a href="#">Dynamic DNS</a> for at least <a href="#">No-IP</a> and DynDNS <sup>[277]</sup>
8280	Yes	Yes		<a href="#">HTTP</a> listener for <a href="#">Apache Synapse</a> <sup>[276]</sup>
8281	Unofficial			HTTP Listener for Gatecraft Plugin
8291	Unofficial			Winbox—Default on a MikroTik RouterOS for a Windows application used to administer MikroTik RouterOS <sup>[278]</sup>
8303		Unofficial		<a href="#">Teeworlds</a> Server
8332	Unofficial			<a href="#">Bitcoin JSON-RPC</a> server <sup>[279]</sup>
	Unofficial			<a href="#">Bitcoin</a> <sup>[280]</sup>
8333	Unofficial			<a href="#">VMware</a> VI Web Access via HTTPS <sup>[275]</sup>
8337	Unofficial			VisualSVN Distributed File System Service (VDFS) <sup>[281]</sup>
8384	Unofficial			<a href="#">Syncthing</a> web GUI
8388	Unofficial			<a href="#">Shadowsocks</a> proxy server <sup>[citation needed]</sup>
8400	Yes			<a href="#">Commvault Communications Service</a> (GxCVD, found in all client computers)
8401	Yes			Commvault Server Event Manager (GxEvMgrS, available in CommServe)
8403	Yes			Commvault Firewall (GxFWD, tunnel port for HTTP/HTTPS)

Port	TCP	UDP	SCTP DCCP	Description
	Unofficial			<a href="#">SW Soft Plesk</a> Control Panel
	Unofficial			<a href="#">Apache Tomcat</a> SSL
8443	Unofficial			<a href="#">Promise</a> WebPAM SSL
	Unofficial			<a href="#">iCal</a> over <a href="#">SSL</a> <sup>[11]</sup>
	Unofficial			<a href="#">MineOs</a> WebUi
8444	Unofficial			<a href="#">Bitmessage</a>
8448	Unofficial	No		Matrix homeserver federation over <a href="#">HTTPS</a> <sup>[264]</sup>
8484	Unofficial			<a href="#">MapleStory</a> Login Server
8500	Unofficial			<a href="#">Adobe ColdFusion</a> built-in web server <sup>[282]</sup>
8530	Unofficial			<a href="#">Windows Server Update Services</a> over <a href="#">HTTP</a> , when using the default role installation settings in Windows Server 2012 and later versions. <sup>[283][284]</sup>
8531	Unofficial			<a href="#">Windows Server Update Services</a> over <a href="#">HTTPS</a> , when using the default role installation settings in Windows Server 2012 and later versions. <sup>[283][284]</sup>
8580	Unofficial			<a href="#">Freemove</a> , an Internet <a href="#">anonymizer</a> and proxy tool <sup>[285]</sup>
8629	Unofficial			<a href="#">Tibero database</a> <sup>[citation needed]</sup>
8642	Unofficial			<a href="#">Lotus Notes Traveler</a> auto synchronization for Windows Mobile and Nokia devices <sup>[286]</sup>
8691	Unofficial			<a href="#">Ultra Fractal</a> , a <a href="#">fractal</a> generation and rendering <a href="#">software application</a> – distributed calculations over networked computers <sup>[287][288]</sup>
8765	Unofficial	No		Default port of a local GUN relay peer that the <a href="#">Internet Archive</a> <sup>[289]</sup> and others use as a decentralized mirror for censorship resistance. <sup>[290]</sup>
8767		Unofficial		Voice channel of <a href="#">TeamSpeak 2</a> , <sup>[291]</sup> a proprietary <a href="#">Voice over IP</a> protocol targeted at <a href="#">gamers</a> <sup>[citation needed]</sup>
8834	Unofficial			<a href="#">Nessus</a> , a <a href="#">vulnerability scanner</a> – remote <a href="#">XML-RPC</a> web server <sup>[292][third-party source needed]</sup>
8840	Unofficial			<a href="#">Opera Unite</a> , an extensible <a href="#">framework</a> for web applications <sup>[293][294]</sup>
8880	Yes			Alternate port of <a href="#">CDDB</a> (Compact Disc Database) protocol, used to look up audio CD ( <a href="#">compact disc</a> ) information over the <a href="#">Internet</a> . <sup>[295]</sup> See also port 888.
	Unofficial			<a href="#">IBM WebSphere Application Server SOAP</a> connector <sup>[296][iargan]</sup>
8883	Yes	Yes		Secure <a href="#">MQTT</a> (MQTT over TLS) <sup>[297][298]</sup>
8887	Unofficial			<a href="#">HyperVM</a> over HTTP <sup>[citation needed]</sup>
	Unofficial			<a href="#">HyperVM</a> over <a href="#">HTTPS</a> <sup>[citation needed]</sup>
8888	Unofficial	No		<a href="#">Freenet</a> web UI (localhost only) <sup>[citation needed]</sup>
	Unofficial			Default for <a href="#">IPython</a> <sup>[299]</sup> / <a href="#">Jupyter</a> <sup>[300]</sup> notebook dashboards
	Unofficial			<a href="#">MAMP</a> <sup>[301]</sup>
8889	Unofficial			<a href="#">MAMP</a> <sup>[301]</sup>
8983	Unofficial			<a href="#">Apache Solr</a> <sup>[302]</sup>
8997	Unofficial			Alternate port for <a href="#">I2P Monotone Proxy</a> <sup>[170][iargan]</sup>
8998	Unofficial			<a href="#">I2P Monotone Proxy</a> <sup>[170][iargan]</sup>
8999	Unofficial			Alternate port for <a href="#">I2P Monotone Proxy</a> <sup>[170][iargan]</sup>
9000	Unofficial			<a href="#">SonarQube</a> Web Server <sup>[303]</sup>

Port	TCP	UDP	SCTP	DCCP	Description
	Unofficial				<a href="#">ClickHouse</a> default port
	Unofficial				<a href="#">DBGp</a>
	Unofficial				<a href="#">SqueezeCenter</a> web server & streaming
		Unofficial			<a href="#">UDPCast</a>
	Unofficial				Play! Framework web server <sup>[304]</sup>
	Unofficial				<a href="#">Hadoop</a> NameNode default port
	Unofficial				<a href="#">PHP-FPM</a> default port
	Unofficial				<a href="#">QBittorrent</a> 's embedded torrent tracker default port <sup>[305]</sup>
	Yes	Yes			ETL Service Manager <sup>[306]</sup>
	Unofficial				<a href="#">Microsoft SharePoint</a> authoring environment
9001	Unofficial				cisco-xremote router configuration <sup>[citation needed]</sup>
	Unofficial				<a href="#">Tor</a> network default
	Unofficial				<a href="#">DBGp</a> Proxy
	Unofficial				<a href="#">HSQLDB</a> default port
9002	Unofficial				Newforma Server comms
		Reserved <sup>[2]</sup>			
9006	Unofficial				<a href="#">Tomcat</a> in standalone mode <sup>[11]</sup>
9030	Unofficial				<a href="#">Tor</a> often used
9042	Unofficial				<a href="#">Apache Cassandra</a> native protocol clients
9043	Unofficial				<a href="#">WebSphere Application Server</a> Administration Console secure
9050–9051	Unofficial				<a href="#">Tor</a> (SOCKS-5 proxy client)
9060	Unofficial				<a href="#">WebSphere Application Server</a> Administration Console
	Yes	Yes			glrpc, <a href="#">Groove Collaboration software</a> GLRPC
9080	Unofficial				<a href="#">WebSphere Application Server HTTP</a> Transport (port 1) <a href="#">default</a>
	Unofficial				Remote Potato by FatAttitude, Windows Media Center addon
	Unofficial				ServerWMC, Windows Media Center addon
	Unofficial				<a href="#">Prometheus</a> metrics server
9090	Unofficial				<a href="#">Openfire</a> Administration Console
	Unofficial				<a href="#">SqueezeCenter</a> control (CLI)
	Unofficial				<a href="#">Cherokee</a> Admin Panel
9091	Unofficial				<a href="#">Openfire</a> Administration Console (SSL Secured)
	Unofficial				<a href="#">Transmission (BitTorrent client)</a> Web Interface
9092	Unofficial				<a href="#">H2 (DBMS)</a> Database Server
	Unofficial				<a href="#">Apache Kafka</a> A Distributed Streaming Platform <sup>[307]</sup>
9100	Yes	Assigned			<a href="#">PDL</a> Data Stream, used for printing to certain network printers <sup>[11]</sup>
9101	Yes	Yes			<a href="#">Bacula</a> Director
9102	Yes	Yes			<a href="#">Bacula</a> File Daemon
9103	Yes	Yes			<a href="#">Bacula</a> Storage Daemon
9119	Yes	Yes			<a href="#">MXit</a> Instant Messenger
9150	Unofficial				<a href="#">Tor</a> Browser
9191	Unofficial				Sierra Wireless Airlink
9199	Unofficial				Avtex LLC—qStats

Port	TCP	UDP	SCTP DCCP	Description
9200	Unofficial			Elasticsearch <sup>[308]</sup> —default Elasticsearch port
9217	Unofficial			iPass Platform Service
9293	Unofficial			Sony PlayStation RemotePlay <sup>[309]</sup>
9295	Unofficial	Unofficial		Sony PlayStation Remote Play Session creation communication port
9296		Unofficial		Sony PlayStation Remote Play
9897		Unofficial		Sony PlayStation Remote Play Video stream
9300	Unofficial			<a href="#">IBM Cognos BI</a> <sup>[citation needed]</sup>
9303		Unofficial		<a href="#">D-Link Shareport</a> Share storage and MFP printers <sup>[citation needed]</sup>
9306	Yes			<a href="#">Sphinx</a> Native API
9309	Unofficial	Unofficial		Sony PlayStation Vita Host Collaboration WiFi Data Transfer <sup>[310]</sup>
9312	Yes			<a href="#">Sphinx</a> SphinxQL
9332	Unofficial			<a href="#">Litecoin JSON-RPC</a> server
9333	Unofficial			<a href="#">Litecoin</a>
9339	Unofficial			Used by all Supercell games such as Brawl Stars and Clash of Clans, mobile freemium strategy video games
9389	Yes	Yes		adws, <a href="#">Microsoft AD DS</a> Web Services, <a href="#">Powershell</a> uses this port
9392	Unofficial	No		OpenVAS Greenbone Security Assistant web interface
9418	Yes	Yes		git, <a href="#">Git</a> pack transfer service
9419	Unofficial			<a href="#">MooseFS</a> distributed file system – master control port <sup>[311]</sup>
9420	Unofficial			<a href="#">MooseFS</a> distributed file system – master command port <sup>[311]</sup>
9421	Unofficial			<a href="#">MooseFS</a> distributed file system – master client port <sup>[311]</sup>
9422	Unofficial			<a href="#">MooseFS</a> distributed file system – Chunkservers <sup>[311]</sup>
9425	Unofficial			<a href="#">MooseFS</a> distributed file system – CGI server <sup>[311]</sup>
9443	Unofficial			<a href="#">VMware</a> Websense Triton console (HTTPS port used for accessing and administrating a vCenter Server via the Web Management Interface)
	Unofficial			<a href="#">NCSA Brown Dog</a> Data Tilling Service
9535	Yes	Yes		mngsuite, <a href="#">LANDesk</a> Management Suite Remote Control
9536	Yes	Yes		laes-bf, <a href="#">IP Fabrics</a> Surveillance buffering function
9600	No	Unofficial		<a href="#">Factory Interface Network Service</a> (FINS), a network protocol used by <a href="#">Omron programmable logic controllers</a> <sup>[citation needed]</sup>
9669	Unofficial	No		VGG Image Search Engine <a href="#">VISE</a>
9675	Unofficial	Unofficial		<a href="#">Spiceworks</a> Desktop, IT Helpdesk Software
9676	Unofficial	Unofficial		<a href="#">Spiceworks</a> Desktop, IT Helpdesk Software
9695		Yes		<a href="#">Content centric networking</a> (CCN, CCNx) <sup>[citation needed]</sup>
9785	Unofficial	Unofficial		<a href="#">Viber</a> <sup>[195]</sup>
9800	Yes	Yes		<a href="#">WebDAV</a> Source
		Unofficial		<a href="#">WebCT</a> e-learning portal
9875	Unofficial			<a href="#">Club Penguin</a> Disney online game for kids
9898	Unofficial			<a href="#">Tripwire</a> —File Integrity Monitoring Software <sup>[312]</sup>
9899		Yes		<a href="#">SCTP</a> tunneling (port number used in SCTP packets encapsulated in UDP, RFC 6951)
9901	Unofficial			Banana for Apache Solr
9981	Unofficial			<a href="#">Tvheadend</a> HTTP server (web interface) <sup>[313]</sup>

Port	TCP	UDP	SCTP DCCP	Description
9982	Unofficial			<a href="#">Tvheadend</a> HTSP server (Streaming protocol) <sup>[313]</sup>
9987	Unofficial	No		<a href="#">TeamSpeak</a> 3 server default (voice) port (for the conflicting service see the IANA list) <sup>[314]</sup>
9993		Unofficial		<a href="#">ZeroTier</a> Default port for ZeroTier
9997	Unofficial			<a href="#">Splunk</a> port for communication between the forwarders and indexers
9999	Unofficial			<a href="#">Urchin</a> Web Analytics <sup>[citation needed]</sup>
9999	Unofficial			<a href="#">Dash (cryptocurrency)</a> <sup>[315]</sup>
	Yes	Yes		Network Data Management Protocol
10000	Unofficial			<a href="#">BackupExec</a>
	Unofficial			<a href="#">Webmin</a> , Web-based Unix/Linux system administration tool (default port)
10000–20000	No	Unofficial		Used on <a href="#">VoIP</a> networks for receiving and transmitting voice telephony traffic which includes <a href="#">Google Voice</a> via the <a href="#">OBiTalk ATA</a> devices as well as on the <a href="#">MagicJack</a> and <a href="#">Vonage</a> ATA network devices. <sup>[316]</sup>
10001		Unofficial		Ubiquiti UniFi access points broadcast to 255.255.255.255:10001 (UDP) to locate the controller(s)
10009	Unofficial	Unofficial		<a href="#">CrossFire</a> , a multiplayer online First Person Shooter <sup>[citation needed]</sup>
10011	Unofficial	No		<a href="#">TeamSpeak</a> 3 ServerQuery <sup>[314]</sup>
10024	Unofficial			Zimbra smtp [mta]—to amavis from postfix <sup>[citation needed]</sup>
10025	Unofficial			Zimbra smtp [mta]—back to postfix from amavis <sup>[citation needed]</sup>
10042	Unofficial			<a href="#">Mathoid</a> server <sup>[317]</sup>
10050	Yes	Yes		<a href="#">Zabbix</a> agent
10051	Yes	Yes		<a href="#">Zabbix</a> trapper
10110	Yes	Yes		NMEA 0183 Navigational Data. Transport of NMEA 0183 sentences over TCP or UDP
10172	Unofficial			Intuit <a href="#">Quickbooks</a> client
	Unofficial			<a href="#">FRISK Software International</a> 's <i>fpscand</i> virus scanning daemon for Unix platforms <sup>[318]</sup>
10200	Unofficial			<a href="#">FRISK Software International</a> 's <i>f-protd</i> virus scanning daemon for Unix platforms <sup>[319]</sup>
10201–10204	Unofficial			<a href="#">FRISK Software International</a> 's <i>f-protd</i> virus scanning daemon for Unix platforms <sup>[319]</sup>
10212	Yes			GE Intelligent Platforms Proficy HMI/SCADA – CIMPLICITY WebView <sup>[320]</sup>
10308	Unofficial			<a href="#">Lock On: Modern Air Combat</a> <sup>[citation needed]</sup>
10480	Unofficial			<a href="#">SWAT 4</a> Dedicated Server <sup>[citation needed]</sup>
10505		Unofficial		BlueStacks (android simulator) broadcast <sup>[321]</sup>
10514	Unofficial	Unofficial		TLS-enabled Rsyslog (default by convention)
10800	Unofficial			<a href="#">Touhou</a> fight games ( <a href="#">Immaterial and Missing Power</a> , <a href="#">Scarlet Weather Rhapsody</a> , <a href="#">Hisoutensoku</a> , <a href="#">Hopeless Masquerade</a> and <a href="#">Urban Legend in Limbo</a> )
10823		Unofficial		<a href="#">Farming Simulator 2011</a> <sup>[citation needed]</sup>
10891	Unofficial			Jungle Disk (this port is opened by the Jungle Disk Monitor service on the localhost) <sup>[citation needed]</sup>

Port	TCP	UDP	SCTP DCCP	Description
10933	Yes	No		Octopus Deploy Tentacle deployment agent <sup>[322]</sup>
11001	Yes	Yes		metasys ( Johnson Controls Metasys java AC control environment )
11100	No	Unofficial		<a href="#">Risk of Rain</a> multiplayer server
11111	Unofficial			RiCcl, Remote Configuration Interface (Redhat Linux)
11112	Yes	Yes		<a href="#">ACR/NEMA Digital Imaging and Communications in Medicine</a> (DICOM)
11211	Unofficial	Unofficial		<a href="#">memcached</a> <sup>[11]</sup>
11214	Unofficial	Unofficial		memcached incoming SSL proxy
11215	Unofficial	Unofficial		memcached internal outgoing SSL proxy
11235	Yes	Yes	Yes	<a href="#">XCOMPUTE</a> numerical systems messaging (Xplicit Computing) <sup>[323]</sup>
11311	Unofficial	Unofficial		<a href="#">Robot Operating System</a> master
11371	Yes	Yes		<a href="#">OpenPGP</a> HTTP <a href="#">key server</a>
11753	Unofficial			<a href="#">OpenRCT2</a> multiplayer <sup>[324]</sup>
12000	Unofficial	Unofficial		<a href="#">CubeForm</a> , Multiplayer SandBox Game
12012		Unofficial		<a href="#">Audition Online Dance Battle</a> , Korea Server—Status/Version Check
12013	Unofficial	Unofficial		Audition Online Dance Battle, Korea Server
12035		Unofficial		<a href="#">Second Life</a> , used for server UDP in-bound <sup>[325]</sup>
12043	Unofficial			<a href="#">Second Life</a> , used for LSL HTTPS in-bound <sup>[326]</sup>
12046	Unofficial			<a href="#">Second Life</a> , used for LSL HTTP in-bound <sup>[326]</sup>
12201	Unofficial	Unofficial		Graylog Extended Log Format (GELF) <sup>[327]</sup> <sup>[importance?]</sup>
12222		Yes		Light Weight Access Point Protocol ( <a href="#">LWAPP</a> ) LWAPP data (RFC 5412)
12223		Yes		Light Weight Access Point Protocol ( <a href="#">LWAPP</a> ) LWAPP control (RFC 5412)
12307		Unofficial		Makerbot UDP Broadcast (client to printer) (JSON-RPC) <sup>[328]</sup>
12308		Unofficial		Makerbot UDP Broadcast (printer to client) (JSON-RPC) <sup>[328]</sup>
	Unofficial	Unofficial		<a href="#">Cube World</a> <sup>[329]</sup>
12345	Unofficial			<a href="#">Little Fighter 2</a>
	Unofficial			<a href="#">NetBus</a> remote administration tool (often <a href="#">Trojan horse</a> ).
12443	Unofficial			<a href="#">IBM HMC</a> web browser management access over <a href="#">HTTPS</a> instead of default port 443 <sup>[330]</sup>
12489	Unofficial			NSClient/NSClient++/NC_Net (Nagios)
12975	Unofficial			<a href="#">LogMeIn Hamachi</a> (VPN tunnel software; also port 32976)—used to connect to Mediation Server (bibi.hamachi.cc); will attempt to use <a href="#">SSL</a> (TCP port 443) if both 12975 & 32976 fail to connect
13000–13050		Unofficial		<a href="#">Second Life</a> , used for server UDP in-bound <sup>[331]</sup>
13008	Unofficial	Unofficial		<a href="#">CrossFire</a> , a multiplayer online First Person Shooter <sup>[citation needed]</sup>
13075	Yes			Default <sup>[332]</sup> for <a href="#">BMC Software Control-M/Enterprise Manager</a> Corba communication, though often changed during installation
13400	Yes	Yes		ISO 13400 Road vehicles — Diagnostic communication over Internet Protocol(DoIP)
13720	Yes	Yes		<a href="#">Symantec NetBackup</a> —bprd (formerly <a href="#">VERITAS</a> )
13721	Yes	Yes		Symantec NetBackup—bpdsm (formerly VERITAS)
13724	Yes	Yes		Symantec Network Utility—vnetd (formerly VERITAS)

Port	TCP	UDP	SCTP DCCP	Description
13782	Yes	Yes		Symantec NetBackup—bpcd (formerly VERITAS)
13783	Yes	Yes		Symantec VOPIED protocol (formerly VERITAS)
13785	Yes	Yes		Symantec NetBackup Database—nbdb (formerly VERITAS)
13786	Yes	Yes		Symantec nomdb (formerly VERITAS)
14550		Unofficial		<a href="#">MAVLink</a> Ground Station Port
14567		Unofficial		<a href="#">Battlefield 1942</a> and mods
14800	Unofficial			<a href="#">Age of Wonders III</a> p2p port <sup>[333]</sup>
	Unofficial			<a href="#">psyBNC</a>
	Unofficial			<a href="#">Wesnoth</a>
15000	Unofficial			Kaspersky Network Agent <sup>[citation needed]</sup>
		Unofficial		Teltonika networks remote management system (RMS)
15009	Unofficial	Unofficial		Teltonika networks remote management system (RMS)
15010	Unofficial	Unofficial		Teltonika networks remote management system (RMS)
15441	Unofficial			<a href="#">ZeroNet</a> fileserver <sup>[citation needed]</sup>
15567		Unofficial		<a href="#">Battlefield Vietnam</a> and mods
15345	Yes	Yes		<a href="#">XPilot</a> Contact
15672	Unofficial	No		<a href="#">RabbitMQ</a> management plugin <sup>[334]</sup>
	Unofficial			<a href="#">Oracle WebCenter</a> Content: Imaging (formerly known as Oracle <a href="#">Universal Content Management</a> ). Port though often changed during installation
16000	Unofficial			<a href="#">shroudBNC</a>
16080	Unofficial			<a href="#">macOS Server</a> Web (HTTP) service with performance cache <sup>[335]</sup>
16200	Unofficial			Oracle WebCenter Content: Content Server (formerly known as Oracle <a href="#">Universal Content Management</a> ). Port though often changed during installation
16225	Unofficial			Oracle WebCenter Content: Content Server Web UI. Port though often changed during installation
16250	Unofficial			Oracle WebCenter Content: Inbound Refinery (formerly known as Oracle <a href="#">Universal Content Management</a> ). Port though often changed during installation
16261	Unofficial	Unofficial		<a href="#">Project Zomboid</a> multiplayer. Additional sequential ports used for each player connecting to server. <sup>[citation needed]</sup>
16300	Unofficial			Oracle WebCenter Content: Records Management (formerly known as Oracle <a href="#">Universal Records Management</a> ). Port though often changed during installation
16384		Unofficial		CISCO Default RTP MIN
16384–16403		Unofficial		<a href="#">Real-time Transport Protocol</a> (RTP), <a href="#">RTP Control Protocol</a> (RTCP), used by <a href="#">Apple's iChat</a> for audio and video <sup>[11]</sup>
16384–16387		Unofficial		Real-time Transport Protocol (RTP), RTP Control Protocol (RTCP), used by Apple's <a href="#">FaceTime</a> and <a href="#">Game Center</a> <sup>[11]</sup>
16393–16402		Unofficial		Real-time Transport Protocol (RTP), RTP Control Protocol (RTCP), used by Apple's FaceTime and Game Center <sup>[11]</sup>
16403–16472		Unofficial		Real-time Transport Protocol (RTP), RTP Control Protocol (RTCP), used by Apple's Game Center <sup>[11]</sup>
16400	Unofficial			Oracle WebCenter Content: Capture (formerly known as Oracle



Port	TCP	UDP	SCTP DCCP	Description
				Document Capture). Port though often changed during installation
16567		Unofficial		<a href="#">Battlefield 2</a> and mods
16666	Unofficial	Unofficial		SITC Port for mobile web traffic
16677	Unofficial	Unofficial		SITC Port for mobile web traffic
17011	Unofficial			<a href="#">Worms</a> multiplayer
17224	Yes	Yes		Train Realtime Data Protocol (TRDP) Process Data, network protocol used in train communication. <sup>[2][336]</sup>
17225	Yes	Yes		Train Realtime Data Protocol (TRDP) Message Data, network protocol used in train communication. <sup>[2][337]</sup>
17333	Unofficial			CS Server (CSMS), default binary protocol port
17472	Yes			Tanium Communication Port
17475	Unofficial			DMXControl 3 Network Broker
17500	Yes	Yes		<a href="#">Dropbox</a> LanSync Protocol (db-lsp); used to synchronize file catalogs between Dropbox clients on a local network.
17777	Unofficial	Unofficial		SITC Port for mobile web traffic
18080	Unofficial	No		<a href="#">Monero</a> P2P network communications <sup>[citation needed]</sup>
18081	Unofficial	No		Monero incoming RPC calls <sup>[citation needed]</sup>
18091	Unofficial	Unofficial		<a href="#">memcached</a> Internal REST HTTPS for SSL
18092	Unofficial	Unofficial		memcached Internal CAPI HTTPS for SSL
18104	Yes			RAD PDF Service
18200	Unofficial	Unofficial		<a href="#">Audition Online Dance Battle</a> , AsiaSoft Thailand Server status/version check
18201	Unofficial	Unofficial		Audition Online Dance Battle, AsiaSoft Thailand Server
18206	Unofficial	Unofficial		Audition Online Dance Battle, AsiaSoft Thailand Server FAM database
18300	Unofficial	Unofficial		Audition Online Dance Battle, AsiaSoft SEA Server status/version check
18301	Unofficial	Unofficial		Audition Online Dance Battle, AsiaSoft SEA Server
18306	Unofficial	Unofficial		Audition Online Dance Battle, AsiaSoft SEA Server FAM database
18333	Unofficial			<a href="#">Bitcoin</a> testnet <sup>[280]</sup>
18400	Unofficial	Unofficial		Audition Online Dance Battle, KAIZEN Brazil Server status/version check
18401	Unofficial	Unofficial		Audition Online Dance Battle, KAIZEN Brazil Server
18505	Unofficial	Unofficial		Audition Online Dance Battle R4p3 Server, Nexon Server status/version check
18506	Unofficial	Unofficial		Audition Online Dance Battle, Nexon Server
18605	Unofficial	Unofficial		<a href="#">X-BEAT</a> status/version check
18606	Unofficial	Unofficial		<a href="#">X-BEAT</a>
18676	Unofficial	Unofficial		YouView
19000	Unofficial	Unofficial		Audition Online Dance Battle, G10/alaplaya Server status/version check
		Unofficial		<a href="#">JACK</a> sound server
19001	Unofficial	Unofficial		Audition Online Dance Battle, G10/alaplaya Server
19132		Unofficial		<a href="#">Minecraft: Bedrock Edition</a> multiplayer server <sup>[338]</sup>
19133		Unofficial		<a href="#">Minecraft: Bedrock Edition</a> IPv6 multiplayer server <sup>[338]</sup>

Port	TCP	UDP	SCTP DCCP	Description
19150	Unofficial	Unofficial		<a href="#">Gkrellm</a> Server
19226	Unofficial			<a href="#">Panda Software</a> AdminSecure Communication Agent
19294	Unofficial			<a href="#">Google Talk</a> Voice and Video connections <sup>[339]</sup>
19295		Unofficial		Google Talk Voice and Video connections <sup>[339]</sup>
19302		Unofficial		Google Talk Voice and Video connections <sup>[339]</sup>
19531	Unofficial	No		<a href="#">systemd-journal-gatewayd</a> <sup>[340]</sup>
19532	Unofficial	No		<a href="#">systemd-journal-remote</a> <sup>[341]</sup>
19812	Yes	No		4D database SQL Communication <sup>[342]</sup>
19813	Yes	Yes		4D database Client Server Communication <sup>[342]</sup>
19814	Yes			4D database DB4D Communication <sup>[342]</sup>
19999	Yes			Distributed Network Protocol—Secure ( <a href="#">DNP—Secure</a> ), a secure version of the protocol used in <a href="#">SCADA</a> systems between communicating <a href="#">RTU</a> 's and <a href="#">IED</a> 's
	Yes			Distributed Network Protocol ( <a href="#">DNP</a> ), a protocol used in <a href="#">SCADA</a> systems between communicating <a href="#">RTU</a> 's and <a href="#">IED</a> 's
	Unofficial			<a href="#">Usermin</a> , Web-based Unix/Linux user administration tool (default port)
20000			Unofficial	Used on <a href="#">VoIP</a> networks for receiving and transmitting voice telephony traffic which includes <a href="#">Google Voice</a> via the <a href="#">OBiTalk ATA</a> devices as well as on the <a href="#">MagicJack</a> and <a href="#">Vonage</a> ATA network devices. <sup>[316]</sup>
20560	Unofficial	Unofficial		<a href="#">Killing Floor</a>
20582		Unofficial		HW Development IoT comms
20583		Unofficial		HW Development IoT comms
20595		Unofficial		<a href="#">O A.D. Empires Ascendant</a>
20808		Unofficial		Ableton Link
21025	Unofficial			Starbound Server (default), <a href="#">Starbound</a>
22000	Unofficial			<a href="#">Syncthing</a> (default)
22136	Unofficial			<a href="#">FLIR Systems</a> Camera Resource Protocol
22222	Unofficial			Davis Instruments, <a href="#">WeatherLink IP</a>
23073	Unofficial			<a href="#">Soldat</a> Dedicated Server
23399	Unofficial			<a href="#">Skype</a> default protocol
23513	Unofficial			<a href="#">Duke Nukem 3D source ports</a>
24441	Unofficial	Unofficial		Pyzor spam detection network
24444	Unofficial			<a href="#">NetBeans</a> integrated development environment
24465	Yes	Yes		<a href="#">Tonido Directory Server</a> for <a href="#">Tonido</a> which is a Personal Web App and P2P platform
24554	Yes	Yes		<a href="#">BINKP</a> , <a href="#">Fidonet</a> mail transfers over <a href="#">TCP/IP</a>
24800	Unofficial			<a href="#">Synergy</a> : keyboard/mouse sharing software
24842	Unofficial			<a href="#">StepMania: Online: Dance Dance Revolution</a> Simulator
25565	Unofficial			<a href="#">Minecraft</a> (Java Edition) multiplayer server <sup>[343][344]</sup>
		Unofficial		<a href="#">Minecraft</a> (Java Edition) multiplayer server query <sup>[345]</sup>
		Unofficial		<a href="#">Minecraft</a> (Java Edition) multiplayer server RCON <sup>[346]</sup>
25826		Unofficial	<a href="#">collectd</a> default port <sup>[347]</sup>	

Port	TCP	UDP	SCTP DCCP	Description
	Yes	Yes		<a href="#">id Software's Quake</a> server
26000	Unofficial			<a href="#">EVE Online</a>
		Unofficial		<a href="#">Xonotic</a> , an <a href="#">open-source arena shooter</a>
26822		Unofficial		<a href="#">MSI MysticLight</a>
26900– 26901	Unofficial			<a href="#">EVE Online</a>
26909– 26911	Unofficial			<a href="#">Action Tanks Online</a>
27000	Unofficial			<a href="#">PowerBuilder SySAM</a> license server
27000– 27006		Unofficial		<a href="#">id Software's QuakeWorld</a> master server
27000– 27009	Yes	Yes		<a href="#">FlexNet Publisher's</a> License server (from the range of default ports)
27000– 27015	No	Unofficial		<a href="#">Steam</a> (game client traffic) <sup>[348]</sup>
27015	No	Unofficial		<a href="#">GoldSrc</a> and <a href="#">Source engine</a> dedicated server port <sup>[348]</sup>
27015– 27018		Unofficial		<a href="#">Unturned</a> , a survival game
27015–	No	Unofficial		<a href="#">Steam</a> (matchmaking and HLTV) <sup>[348]</sup>
27030	Unofficial	Unofficial		<a href="#">Steam</a> (downloads) <sup>[348]</sup>
27016	Unofficial			<a href="#">Magicka</a> and <a href="#">Space Engineers</a> server port
27017	Unofficial	No		<a href="#">MongoDB</a> daemon process (mongod) and routing service (mongos) <sup>[349]</sup>
27031– 27035	No	Unofficial		<a href="#">Steam</a> (In-Home Streaming) <sup>[348]</sup>
27036	Unofficial	Unofficial		<a href="#">Steam</a> (In-Home Streaming) <sup>[348]</sup>
27374	Unofficial			<a href="#">Sub7</a> default.
27500– 27900		Unofficial		<a href="#">id Software's QuakeWorld</a>
27888		Unofficial		<a href="#">Kaillera</a> server
27901– 27910		Unofficial		<a href="#">id Software's Quake II</a> master server
27950		Unofficial		<a href="#">OpenArena</a> outgoing
27960– 27969		Unofficial		<a href="#">Activision's Enemy Territory</a> and <a href="#">id Software's Quake III Arena</a> , <a href="#">Quake III</a> and <a href="#">Quake Live</a> and some ioquake3 derived games, such as <a href="#">Urban Terror</a> ( <a href="#">OpenArena</a> incoming)
28000	Yes	Yes		<a href="#">Siemens PLM Software</a> license server <sup>[2]</sup>
28001	Unofficial			<a href="#">Starsiege: Tribes</a> <sup>[citation needed]</sup>
28015		Unofficial		<a href="#">Rust (video game)</a> <sup>[350]</sup>
28016		Unofficial		<a href="#">Rust RCON (video game)</a> <sup>[351]</sup>
28260	Unofficial			Palo Alto Networks' Panorama HA-1 backup unencrypted sync port. <sup>[26]</sup>
28443	Unofficial			Palo Alto Networks' Panorama-to-managed devices software updates, PAN-OS 8.0 and later. <sup>[186]</sup>
28769	Unofficial			Palo Alto Networks' Panorama HA unencrypted sync port. <sup>[26]</sup>

Port	TCP	UDP	SCTP DCCP	Description
28770	Unofficial			Palo Alto Networks' Panorama HA-1 backup sync port. <sup>[26]</sup>
28770–28771		Unofficial		<a href="#">AssaultCube Reloaded</a> , a video game based upon a modification of <a href="#">AssaultCube</a> <sup>[citation needed]</sup>
28785–28786		Unofficial		<a href="#">Cube 2: Sauerbraten</a> <sup>[352]</sup>
28852	Unofficial	Unofficial		<a href="#">Killing Floor</a> <sup>[citation needed]</sup>
28910	Unofficial	Unofficial		<a href="#">Nintendo Wi-Fi Connection</a> <sup>[353]</sup>
28960	Unofficial	Unofficial		<a href="#">Call of Duty</a> ; <a href="#">Call of Duty: United Offensive</a> ; <a href="#">Call of Duty 2</a> ; <a href="#">Call of Duty 4: Modern Warfare</a> <sup>[citation needed]</sup> <a href="#">Call of Duty: World at War</a> (PC platform) <sup>[354]</sup>
29000	Unofficial			<a href="#">Perfect World</a> , an adventure and fantasy <a href="#">MMORPG</a> <sup>[citation needed]</sup>
29070	Unofficial	Unofficial		<a href="#">Jedi Knight: Jedi Academy</a> by <a href="#">Ravensoft</a> <sup>[citation needed]</sup>
29900–29901	Unofficial	Unofficial		Nintendo Wi-Fi Connection <sup>[353]</sup>
29920	Unofficial	Unofficial		Nintendo Wi-Fi Connection <sup>[353]</sup>
30000		Unofficial		<a href="#">XLink Kai P2P</a>
		Unofficial		<a href="#">Minetest</a> server default port <sup>[355]</sup>
30033	Unofficial	No		<a href="#">TeamSpeak 3</a> File Transfer <sup>[314]</sup>
30120	Unofficial			<a href="#">Fivem</a> (Default Port) GTA V multiplayer <sup>[356][357]</sup>
30564	Unofficial			<a href="#">Multiplicity</a> : keyboard/mouse/clipboard sharing software <sup>[citation needed]</sup>
<a href="#">31337</a>	Unofficial			<a href="#">Back Orifice</a> and <a href="#">Back Orifice 2000</a> remote administration tools <sup>[358][359]</sup>
	Unofficial	Unofficial		<a href="#">ncat</a> , a <a href="#">netcat</a> alternative <sup>[360]</sup>
31416	Unofficial			<a href="#">BOINC RPC</a> <sup>[361]</sup>
31438	Unofficial			<a href="#">Rocket U2</a> <sup>[362]</sup>
31457	Yes			<a href="#">TetriNET</a>
32137	Unofficial	Unofficial		<a href="#">Immunet Protect</a> (UDP in version 2.0, <sup>[363]</sup> TCP since version 3.0 <sup>[364]</sup> )
32400	Yes			<a href="#">Plex Media Server</a> <sup>[365]</sup>
32764	Unofficial			A <a href="#">backdoor</a> found on certain Linksys, Netgear and other wireless DSL modems/combination routers <sup>[366]</sup>
32887	Unofficial			<a href="#">Ace of Spades</a> , a multiplayer <a href="#">FPS</a> video game <sup>[citation needed]</sup>
32976	Unofficial			<a href="#">LogMeIn Hamachi</a> , a <a href="#">VPN</a> application; also TCP port 12975 and <a href="#">SSL</a> (TCP 443). <sup>[367]</sup>
33434	Yes	Yes		<a href="#">traceroute</a>
33848		Unofficial		<a href="#">Jenkins</a> , a <a href="#">continuous integration</a> (CI) tool <sup>[368][369]</sup>
34000		Unofficial		<a href="#">Infestation: Survivor Stories</a> (formerly known as <i>The War Z</i> ), a multiplayer zombie video game <sup>[verification needed]</sup>
34197	No	Unofficial		<a href="#">Factorio</a> , a multiplayer survival and factory-building game <sup>[370]</sup>
35357	Yes			<a href="#">OpenStack Identity</a> (Keystone) administration <sup>[371]</sup> <sup>[self-published source?]</sup>
36330	Unofficial			<a href="#">Folding@home</a> Control Port
37008		Unofficial		<a href="#">TZSP</a> intrusion detection <sup>[citation needed]</sup>
40000	Yes	Yes		<a href="#">SafetyNET p</a> – a real-time <a href="#">Industrial Ethernet</a> protocol
41121	Yes	Yes		Tentacle Server <sup>[372]</sup> - <a href="#">Pandora FMS</a>
41794	Yes	Yes		Crestron Control Port <sup>[373]</sup> - <a href="#">Crestron Electronics</a>

Port	TCP	UDP	SCTP DCCP	Description
41795	Yes	Yes		Crestron Terminal Port <sup>[374]</sup> - <a href="#">Crestron Electronics</a>
41796	Yes	No		Crestron Secure Control Port <sup>[375]</sup> - <a href="#">Crestron Electronics</a>
41797	Yes	No		Crestron Secure Terminal Port <sup>[376]</sup> - <a href="#">Crestron Electronics</a>
43110	Unofficial			<a href="#">ZeroNet</a> web UI default port <sup>[citation needed]</sup>
43594–43595	Unofficial			<a href="#">RuneScape</a> <sup>[377]</sup>
44405	Unofficial			<a href="#">Mu Online</a> Connect Server <sup>[citation needed]</sup>
44818	Yes	Yes		<a href="#">EtherNet/IP</a> explicit messaging
47808–47823	Yes	Yes		<a href="#">BACnet</a> Building Automation and Control Networks (47808 <sub>10</sub> = BACO <sub>16</sub> to 47823 <sub>10</sub> = BACF <sub>16</sub> )
49151	Reserved	Reserved		Reserved <sup>[2]</sup>

### Dynamic, private or ephemeral ports

See also: [Ephemeral port](#)

The range 49152–65535 ( $2^{15} + 2^{14}$  to  $2^{16} - 1$ ) contains dynamic or private ports that cannot be registered with IANA.<sup>[378]</sup> 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	SCTP DCCP	Description
49152–65535	Unofficial	No		<a href="#">Certificate Management over CMS</a> <sup>[379]</sup>
49160	Unofficial			Palo Alto Networks' Panorama. <sup>[186]</sup>
49190	Unofficial			Palo Alto Networks' Panorama. <sup>[186]</sup>
60000–61000	No	Unofficial		Range from which <a href="#">Mosh</a> – a remote-terminal application similar to <a href="#">SSH</a> – typically assigns ports for ongoing sessions between Mosh servers and Mosh clients. <sup>[380]</sup>
64738	Unofficial	Unofficial		<a href="#">Mumble</a> <sup>[381]</sup>