

List of Common TCP/IP port numbers

For those of you who configure firewalls, routers, port forwarding, and applications connectivity, this regularly updated document lists all standard, common, well known, de-facto, as well as application specific TCP/IP PC port numbers used around the world.

The port numbers specifically highlighted in yellow in the port list below, indicate International Standards ports, some de-facto standard ports, or simply very well-known ports.

Port	Type	Application
Port 21	International Standard	FTP port This is the port used for all FTP based file transfers, such as with programs like FTP Voyager, WS_FTP, Cute FTP, FTP NOW, and many more. (FTP = <u>F</u> ile <u>T</u> ransfer <u>P</u> rotocol).
Port 22	International Standard	SSH Server Listening port Port used by Secure Shell servers, SSH, to listen for incoming connections.
Port 23	International Standard	Telnet port The port used by all Telnet applications.
Port 25	International Standard	SMTP mail port Standard port used for SMTP mail delivery. This is the outgoing mail port used by email programs such as Outlook Express, Outlook, FoxMail, and hundreds more, and it is also the SMTP Outgoing port used by mail servers such as Axigen Mail Server, CMailServer, Lotus Notes, MailEnable, Merak Mail Server, Microsoft Exchange, Novell GroupWise, Qmail, PostCast Server, PostFix, SendMail, SurgeMail, TFS Secure Message Server, WinMail, or any other SMTP / ESMTP standards compliant e-mail MTA (Message Transfer Agent).
Port 42	Microsoft	WINS Replication port Port used to replicate NETBIOS name tables from one Windows server to another (see port 137 also)
Port 43	International Standard	WHOIS port Port used for "Whols" requests (for the retrieval of domain name information) to whois servers.
Port 53	International Standard	DNS port for DNS requests & replies This port is used by clients and servers when exchanging Domain Name information and routing. (DNS = <u>D</u> omain <u>N</u> ame <u>S</u> erver).

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Port 67	International Standard	<p>DHCP port for DHCP requests & replies</p> <p>This is the port used by the DHCP server and clients when the clients checks with the DHCP server for a new lease and the allocation of an IP address. (DHCP = <u>D</u>ynamic <u>H</u>ost <u>C</u>onfiguration <u>P</u>rotocol).</p>
Port 79	International Standard	<p>Finger command for SMTP Mailservers – ETRN Finger port</p> <p>Port used by SMTP mail servers to send ETRN Finger commands to message queues servers so that those message queues servers know that the mail servers are online and ready to accept queued up mail. In short : this is the port which your email server will use to send an ETRN command to your web hosting company's mail servers so that they deliver to you any waiting incoming mail.</p>
Port 80	International Standard	<p>HTTP port – Internet traffic</p> <p>The port through which most Internet traffic goes through, through HTTP requests. This is the port which web browsers use to browse the web.</p>
Port 102	International Standard	<p>X.400 port</p> <p>X.400 is one of the earliest standards for communications between Message Handling Systems (MHS) in pre-Internet days. As a result X.400 includes provisions for the network communications to include information about the intended destination medium for the message (e.g : email, fax, telex, etc...).</p> <p>In the Windows world this port is used by default by Microsoft Exchange Server MTAs (<u>M</u>essage <u>T</u>ransfer <u>A</u>gent) to communicate with each other on internal networks with multiple Exchange servers.</p>
Port 110	International Standard	<p>POP3 port</p> <p>Standard port used for POP3 mail delivery and collection. This is the port normally called the Incoming Mail port in email programs such as Outlook Express, Microsoft Outlook, FoxMail, and others.</p>

Port	Type	Application
Port 115	International Standard	<p>SFTP port (Secure File Transfer Protocol)</p> <p>Port used for FTP file transfers and modifications over a Secure Shell connection (SSH). This is sometimes mistakenly called "FTP over SSH" which it is not – it is actually a completely new file transfer protocol which includes additional features such as error detection, resumption of interrupted transfers, remote file removal, and enumeration (listing) of remote folders and files. Additionally, as the protocol operates within the SSH protocol which secures the connection through authentication and encryption, this protocol has the additional advantage of operating within a secure environment, something which basic FTP lacks totally (passwords and files are sent as clear text which can easily be intercepted and deciphered by snooping programs).</p>
Port 119	International Standard	<p>Newsgroups port</p> <p>Port used for newsgroups access.</p>
Port 123	International Standard	<p>Network Time Protocol port (NTP)</p> <p>Port used for checking and synchronising time with another computer (Time Server). For example, this is the port which Windows XP and Windows Vista use when you configure the clock to automatically synchronize itself with a time server on the Internet. Ditto when you configure a Windows Server to synchronize its time over the Internet.</p>
Port 135	Microsoft	<p>RPC Locator Service port</p> <p>The RPC locator Service (<u>R</u>emote <u>P</u>rocedure <u>C</u>all) maintains a list of networked services that support RPC and DCOM standards. This list holds information regarding which ports and IP addresses the services are currently running on or listening on. Thanks to this list, other computers can query this service to find the details needed to connect to a desired RPC service.</p>
Port 137	Microsoft	<p>NetBIOS Name service port / WINS</p> <p>Port used by the NetBIOS protocol to find other computers on a workgroup network. On a Peer to Peer network this will be done via broadcast.</p> <p>If a Windows 2000 server or newer is in place, the discovery of other computers can be done with a centralised database called a WINS server (<u>W</u>indows <u>I</u>nternet <u>N</u>aming <u>S</u>ervice) thereby reducing latency and bandwidth usage on the network.</p> <p>This is analogous to DNS for Internet domain names and Microsoft 2000 / 2003 Domains.</p>

Port	Type	Application
Port 143	International Standard	<p><u>Internet Message Access Protocol 4 (IMAP4 port)</u></p> <p>This port is used by IMAP4 servers.</p> <p>IMAP is a method of accessing emails stored remotely on a mail server (a mailbox). This could be a mailbox at an ISP or a corporate mail server. IMAP4 is "the other" message access protocol – the first one, and most known, being POP3. IMAP works differently from POP3 : the connection to the remote mailbox is constant compared to the Connect-GetMessages-CloseConnection method of POP3. IMAP allows more than one email client to be connected to the same mailbox at the same time – as a direct result it is the protocol of choice for hand-held devices like BlackBerrys as you can have your laptop, desktop PC, and BlackBerry all connected to your mailbox at the same time, something which is not possible with POP3 which requires exclusive access. Another major plus point of IMAP is the ability to retrieve parts of the email, such as the subject only, the message body only, or the attachments only – this is another reason for it being the protocol of choice for devices like BlackBerrys where the user can have the device configured to download and show only the message subjects and when the user decides to open the email in full, then at that point the device requests, specifically, the only the body of the message. Last but not least, the IMAP protocol includes the provision of message status flags which let the remote client know whether a message has been read, deleted, replied to, or forwarded – again, this is crucial to BlackBerry-type devices as that is how the IMAP server can synchronize messages between the device, the server, and any other device simultaneously accessing the same mailbox.</p>
Port 161	International Standard	<p><u>Simple Network Management Protocol (SNMP port)</u></p> <p>UDP port used to manage, configure, and gather information about network devices (e.g. Firewalls, Routers) in a unified and uniform manner across a varied range of manufacturers. Most server operating systems, whether Windows or not, provide support for this protocol.</p> <p>Note : Home and Small office devices tend to use UPNP for this purpose.</p>
Port 179	International Standard	<p><u>Border Gateway Protocol port</u></p> <p>The <u>B</u>order <u>G</u>ateway <u>P</u>rotocol (BGP) is a routing protocol used to exchange routing information between routers in autonomous networks.</p>

Port	Type	Application
Port 379	Microsoft	<p><u>Site Replication Services (SRS port)</u></p> <p>TCP Port used by Microsoft Site Replication Services.</p> <p>This services enables LDAP enabled servers to replicate between each other information stored on Microsoft Active Directory domain Controllers and Exchange Servers.</p>
Port 389	International Standard	<p><u>Light Weight Directory Access Protocol port (LDAP port)</u></p> <p>TCP Port used to find and manage network resources on an a hierarchical network systems such as Novell Network Directory Trees (NDS), and Microsoft Active Directory Service Domains.</p>
Port 443	International Standard	<p><u>Secure HTTP traffic port (SSL port)</u></p> <p>This is the default port used for SSL encrypted communications (SSL = Secure Socket Layer), such as, for example, when you login to a secure site to purchase something. From a System Administrator's viewpoint, this is the port that is used for incoming and outgoing SSL connections.</p>
Port 445	International Standard	<p><u>Microsoft Active Directory and SMB Protocol port</u></p> <p>This port is used by Microsoft Active Directory services and Microsoft SMB (Server Message Block) protocols. SMB is also known as "Microsoft Windows Network" and is the main protocol used by Microsoft Server Operating Systems for client/server access, and file and printer sharing.</p>
Port 465	Google	<p><u>Google Mail Outgoing Mail Server</u></p> <p>Google uses this non-standard port for its Outgoing Mail Server for Google Mail. Use this port, smtp.gmail.com, and SSL connection (SMTP Server Authentication) when configuring your email client for Google Mail (GMAIL).</p>
Port 636	International Standard	<p><u>LDAP over SSL</u></p> <p>TCP Port used for Lightweight Directory Access Protocol over Secure Socket Layer connections.</p> <p>This a standard added to LDAP to prevent the interception of information and credentials using the LDAP protocol.</p> <p>This standard is used by Microsoft Exchange server and many other LDAP enabled server applications.</p> <p>SEE LDAP PORT : 389</p>

Port	Type	Application
Port 993	International Standard	<p>Secure Internet Message Access Protocol port (Secure IMAP port)</p> <p>TCP Port used for SSL Secured IMAP 4 access.</p> <p>See IMAP4 Port: 143.</p>
Port 995	Google	<p>Google Mail Incoming POP3 Mail Server (GMAIL port)</p> <p>Google uses this non-standard port for its POP3 Incoming Mail Server for Google Mail (GMAIL). Use this port, pop.gmail.com, and SSL connection when configuring your email client.</p>
Port 1026	Novell Microsoft	<p>Calendar Access Protocol port (CAP)</p> <p>Port used by Novell GroupWise for its Calendar Access Protocol.</p> <p>On some Windows 2000 servers port 1026 is used by the Windows Task Scheduler or other Windows services.</p>
Port 1080	De-Facto Standard	<p>SOCKS / Online Chatting / Hotmail</p> <p>This port is used mainly by applications such as ICQ, AOL Instant Messenger for online chatting. It is also used by Hotmail.</p>
Port 1090	De-Facto Standard	<p>Real Audio port</p> <p>Port used by Real Audio video and audio streaming applications.</p>
Port 1433	Microsoft	<p>SQL Server Port & SQL Server Replication Port</p> <p>Used by Microsoft SQL Server 6 and above for SQL replication between SQL servers.</p>
Port 1434	Microsoft	<p>SQL Server Monitoring Port</p> <p>Used by Microsoft SQL Server to monitor SQL server performance.</p>
Port 1521	Oracle	<p>Default Oracle port</p> <p>Default port for connection to an Oracle database server.</p>
Port 1677	Novell	<p>Novell GroupWise</p> <p>Standard port used by Novell GroupWise for TCP/IP communications between clients and agents and the GroupWise Post Office Agent (POA).</p>

Port	Type	Application
Port 1701	International Standard	<p>Layer Two Tunneling Protocol port (L2TP port)</p> <p>A tunnelling and encryption standard used to connect two Private Business networks together over an Internet connection to create a Virtual Private Network (VPN).</p> <p>This protocol is seen as the replacement to PPTP (port 1723 listed below).</p>
Port 1720	De-Facto Standard	<p>H.323 port</p> <p>Port used for video conferencing equipment which uses the H.323 protocol.</p>
Port 1723	International Standard	<p>Point to Point Tunneling Protocol port (PPTP port)</p> <p>A tunnelling and encryption standard used to connect two Private Business networks together over an Internet connection (creating one Virtual Private Network). This is the default protocol for establishing a VPN on Windows 2000 Server.</p>
Port 1900	Microsoft	<p>Media Center Extender – Xbox 360 port</p> <p>UDP inbound. Port used by Microsoft's Xbox 360 when linking to Media Center.</p>
Port 2409	SPAMFighter	<p>SPAMFighter Content Classification port</p> <p>UDP inbound and Outbound. Port used by the SPAMFighter software to communicate with its servers in order to determine which emails are spam or not.</p>
Port 3101	Research in Motion	<p>Blackberry Enterprise Server (BES) Synchronization Port (BES port)</p> <p>If you have an outbound firewall, then you will need to open this port (TCP) to enable the Blackberry Enterprise Server to synchronize with the Blackberry devices. Additionally, depending on the configuration of your particular site, you may also need to port forward port 3101 from your router to the Blackberry Enterprise Server.</p>
Port 3306	MySQL AB	<p>Default MySQL Port</p> <p>Default port for connection to a MySQL database server.</p>

Port	Type	Application
Port 3389	Microsoft	<p>Remote Desktop Port & Terminal Services Port</p> <p>TCP Inbound & Outbound. Default port used by Windows XP Remote Desktop Connection and Microsoft Terminal Server for Remote Desktop Connections and/or Terminal Services sessions. For added security it is recommended to change the Remote Desktop port from its default to a value of your choice – this can be changed in the Registry at HKLM\System\CurrentControlSet\Control\Terminal Server\WinStations\RDP-Tcp\PortNumber (the “RDP-Tcp” part may have a different name if you renamed your Terminal Server \ Remote Desktop connection).</p>
Port 3390	Microsoft	<p>Media Center Extender – Xbox 360 port</p> <p>TCP Inbound. Port used by Microsoft's Xbox 360 when linking to Media Center.</p>
Port 3535	GoDaddy	<p>GoDaddy Secure SMTP Relay port</p> <p>Port used by GoDaddy customers for email sending using SMTP relay with authentication over any ISP connection via GoDaddy's Outgoing Mail Server, smtpout.secureserver.net. This enables GoDaddy customers to email from anywhere without having to constantly change their email settings to reflect the SMTP server corresponding to the Internet connection they are using at the time – instead they can email through GoDaddy's SMTP Relay regardless of where they are.</p>
Port 4321	De Facto Standard	<p>RWHOIS port</p> <p>Port used for “RWhoIs” requests.</p>
Port 4664	Google	<p>Google Desktop Search port</p>
Port 5190	America On Line	<p>AOL Instant Messenger port</p> <p>Port used by AIM, the AOL Instant Messenger software.</p>
Port 5500	DualDesk	<p>DualDesk port</p> <p>Default port used by the DualDesk remote control software.</p>
Port 5631	PCAnywhere	<p>PCAnywhere 5631 TCP incoming port</p> <p>Port on which a Symantec PC Anywhere host accepts incoming PC Anywhere connections and then continues to communicate with the remote PC. If you have a PC Anywhere host behind a firewall or firewalled router, then you need to allow (and possibly port forward) incoming TCP connections on this port.</p>

Port	Type	Application
Port 5632	PCAnywhere	PCAnywhere 5632 UDP incoming port Port used by Symantec's PC Anywhere for the streaming of screen updates during a PC Anywhere session. If you have a PC Anywhere host behind a firewall or firewalled router, then you need to allow (and possibly port forward) <i>incoming UDP connections</i> on this port.
Port 5900	RealVNC Ltd (De-facto VNC default port)	RealVNC Default Remote Control Port This is the default RealVNC port for port forwarding to the RealVNC host. You should always change this port from its default as it is a well-known port for all VNC remote control programs and it will therefore be one of the first targets of hackers !
Port 7070	Real Networks	Real Streaming Audio port Port used by Real Networks' audio streaming servers.
Port 7100	Novell	Novell GroupWise Standard port used by Novell GroupWise for TCP/IP communications between the Message Transfer Agent (MTA) and other agents.
Port 8000	Mirra Inc	Mirra Personal Server Communications port Port used by both the Mirra Client running on the PC, and the Mirra Personal Server, to communicate with each other. This is a TCP port.
Port 8080	International Standard	HTTP Internet traffic port The other port through which HTTP Internet traffic also goes through.
Port 8799	Vodafone UK	GPRS Internet Access Proxy port Port used for GPRS Internet Browsing on the Vodafone UK mobile phone network. If you are on Vodafone you typically need to configure your phone to access the Internet via a proxy on port 8799. The proxy address is : 212.183.137.12:8799 .
Port 8880	De Facto Standard	CDDDB port Port used by CD mastering software to communicate with an Internet based CDDDB server for requests about artist and track names.
Port 9100	Google	Google Web Accelerator port Port used by Google Web Acceleration technology. Google Web Accelerator supports <u>natively</u> only Internet Explorer and FireFox at the time of writing, 2-Sep-2006. Other browsers need to have their HTTP Proxy configured to 127.0.0.1:9100.

Port	Type	Application
Port 19430	Mirra Inc	Mirra Personal Server Discovery port This is a UDP port used by the Mirra Client software running on the PC to discover its assigned Mirra Personal Server (Broadcast over UDP).
Port 39720	Lime Wire LLC	LimeWire communications port This is the default port which the LimeWire peer-to-peer file-sharing program uses (can be changed by the end-user).

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