
Appendix C: Commonly Used Port Numbers

Contents

Port Assignments for Commonly Used
Services

1



Information in this document, including URL and other Internet Web site references, is subject to change without notice. Unless otherwise noted, the example companies, organizations, products, domain names, e-mail addresses, logos, people, places, and events depicted herein are fictitious, and no association with any real company, organization, product, domain name, e-mail address, logo, person, places or events is intended or should be inferred. Complying with all applicable copyright laws is the responsibility of the user. Without limiting the rights under copyright, no part of this document may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), or for any purpose, without the express written permission of Microsoft Corporation.

Microsoft may have patents, patent applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this document. Except as expressly provided in any written license agreement from Microsoft, the furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property.

© 2000 Microsoft Corporation. All rights reserved.

Microsoft, MS-DOS, Windows, Windows NT, Active Directory, BackOffice, FrontPage, IntelliMirror, NetShow, Outlook, PowerPoint, Visual Studio, and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the U.S.A. and/or other countries.

The names of actual companies and products mentioned herein may be the trademarks of their respective owners.

Simulations and interactive exercises were built with Macromedia Authorware

Port Assignments for Commonly Used Services

There are many services associated with the Microsoft® Windows® 2000 operating system. These services may require more than one Transmission Control Protocol (TCP) or User Datagram Protocol (UDP) port for the service to be functional. The following table shows the default ports that each service uses.

Service Name	UDP	TCP
Browsing datagram responses of NetBIOS over TCP/IP (NetBT)	138	
Browsing requests of NetBT	137	
Client/Server Communication		135
Common Internet File System (CIFS)	445	139, 445
Content Replication Service		560
Cybercash Administration		8001
Cybercash Coin Gateway		8002
Cybercash Credit Gateway		8000
Distributed Component Object Model (DCOM) (SCM uses UDP/TCP to dynamically assign ports for DCOM)	135	135
Domain Name System (DNS) client to server lookup (varies)	53	53
DNS Administration		139
Dynamic Host Configuration Protocol (DHCP) client		67
DHCP Manager		135
DHCP server		68
Exchange Administrator		135
Exchange Server 5.0		
File shares name lookup	137	
File shares session		139
File Transfer Protocol (FTP)		21
FTP-data		20
Hypertext Transfer Protocol (HTTP)		80
HTTP-Secure Sockets Layer (SSL)		443
Internet Information Services (IIS)		80
Internet Key Exchange (IKE)	500	
Internet Message Access Protocol (IMAP)		143
IMAP (SSL)		993
Internet Protocol Security (IPSec) Authentication Header (AH)		
IPSec Encapsulating Security Payload (ESP)		
Internet Relay Chat (IRC)		531
ISPMOD (SBS 2nd tier DNS registration wizard)		1234
Kerberos de-multiplexer		2053
Kerberos klogin		543
Kerberos kpasswd (v5)	464	464

(continued)

Service Name	UDP	TCP
Kerberos krb5	88	88
Kerberos kshell		544
Layer Two Tunneling Protocol (L2TP)	1701	
Lightweight Directory Access Protocol (LDAP)		389
LDAP (SSL)		636
Login Sequence	137, 138	139
Macintosh, File Services (AFP/IP)		548
Membership DPA		568
Membership MSN		569
Message transfer agent (MTA) - X.400 over TCP/IP		102
Microsoft Chat client to server		6667
Microsoft Chat server to server		6665
Microsoft Message Queue Server	1801	1801
Microsoft Message Queue Server	3527	135, 2101
Microsoft Message Queue Server		2103, 2105
NetBT datagrams	138	
NetBT name lookups	137	
NetBT service sessions		139
NetLogon	138	
NetMeeting Audio Call Control		1731
NetMeeting H.323 call setup		1720
NetMeeting H.323 streaming RTP over UDP	Dynamic	
NetMeeting Internet Locator Server (ILS)		389
NetMeeting RTP audio stream	Dynamic	
NetMeeting T.120		1503
NetMeeting User Location Service		522
Network Load Balancing	2504	
Network News Transport Protocol (NNTP)		119
NNTP (SSL)		563
Outlook (see for ports)		
Pass Through Verification	137, 138	139
Point-to-Point Tunneling Protocol (PPTP) control		1723
PPTP data		
Post Office Protocol version 3 (POP3)		110
POP3 (SSL)		995
Printer sharing name lookup	137	
Printer sharing session		139

(continued)

Service Name	UDP	TCP
Remote Authentication Dial-In User Service (RADIUS) authentication (Routing and Remote Access)	1645 or 1812	
RADIUS accounting (Routing and Remote Access)	1646 or 1813	
Remote Install TFTP		69
Remote procedure call (RPC)		135
RPC client fixed port session queries		1500
RPC client using a fixed port session replication		2500
RPC session ports		Dynamic
RPC user manager, service manager, port mapper		135
Service Control Manager (SCM) used by DCOM	135	135
Simple Mail Transfer Protocol (SMTP)		25
Simple Network Management Protocol (SNMP)	161	
SNMP Trap	162	
SQL Named Pipes encryption over other protocols name lookup	137	
SQL RPC encryption over other protocols name lookup	137	
SQL session		139
SQL session		1433
SQL session		1024 - 5000
SQL session mapper		135
SQL TCP client name lookup	53	53
Telnet		23
Terminal Services		3389
UNIX Printing		515
Windows Internet Name Service (WINS) Manager		135
WINS NetBT name service	137	
WINS Proxy	137	
WINS Registration		137
WINS Replication		42
X400		102

