



INTERNET
SECURITY
SYSTEMS™

**Internet Scanner® 7.0 SP2
Asset & Operating System
Identification**

Technical Whitepaper

Overview

The following document contains information on the system identification used by Internet Scanner 7.0 SP2.

Background

SP2 updates the NMAP database that is used for system fingerprinting to the 3.75 version. This update includes 20% more fingerprints than the previous version and numerous updates to existing fingerprints. With this update we can now identify 1,353 different systems with an extremely high degree of accuracy. This is accomplished by the combination of data from the NMAP database along with IS specific scan results such as banner's, open port grouping, available services, NetBIOS probes, etc. More information can be found in the "Discovery Engine" section of the Internet Scanner 7.0 Technical Overview whitepaper. More information on classical OS Fingerprinting can be found in "Remote OS detection via TCP/IP Stack FingerPrinting" at <http://www.insecure.org/nmap/nmap-fingerprinting-article.html>.

User Defined OS Fingerprint Extensions

Service Pack 2 adds the ability for users to add their own custom fingerprints for Internet Scanner to use. Information on how to add these can be found in the `issSensors\scanner_1\discovery\user-os-fingerprints` file. More information on much of the fingerprint format can also be found on the Nmap website (www.insecure.org/nmap).

Operating Systems Identified – Summary

Internet Scanner 7.0 SP2 is able to identify nearly 700 different Operating Systems down to the update level. The following is a summarized list of those systems:

AS/400, BeOS, NetWare, OS/2, OS/390, OpenVMS, Symbian, QNX, Unix based systems (AIX, BSDI BSD, DG/UX, FreeBSD, HP-UX, Irix, Linux, Mac OS 7 through X, NetBSD, NeXTStep, OpenBSD, Solaris/SunOS, True64, UNICOS), Windows (3.1 through Server 2003)

Network Devices Identified – Summary

Internet Scanner 7.0 SP2 is able to identify nearly 700 different network devices. The following is a summarized list of those devices:

2Wire, 3Com, Actiontec, Adtran, Alcatel, Allied Telesyn, Altron, APC, Apple, Arescom, ARLAN, Asante, Ascend, Avaya, Avocent, AXIS, Barix, Bay Networks, Belkin, BenQ,

Billion, BinTEC, Blue Coar, Borderware, Bosch Security Systems, BreezeCOM, Brix, Cabletron, CacheFlow, Canon, Capellix, CastleNet, Chase, CheckPoint, Cisco, Cnet, CNT, Cobalt, Compaq, Compex, Computone, Conexantm Contiki, Corega, Cyberguide, Cyclades, D-Link, Datavoice, DECNIX, Dell, Digital Link, Digital Networks, Draytek, Easytel, Edimax, Efficient Networks, Eicon, ELSA LANCOM, EMC, Enerasys, Epson, Ericsson, Exabyte, Extreme Networks, F5, FastComm, FiberLine, FlowPoint, ForeThought, Foundry Networks, Gandalf, Gauntlet, Gnat Box, GNet, Grandstream, Hawking, HP, Huawei, Hydra, IBM, Intel, IPCop, IQinVision, IronPort, Isolation Systems, Ixia, Juniper Networks, Kentrox, Konica, Kronos, Kyocera, Laptam, Lantronix, Leunig, Lexmark, LG Goldstream, Leibert, Linksys, Livingston, Lucent, Magnam, Maxim, MegaBit, Meridian, Microplex, Minolta, MiraPoint, Motorola, MultiTech, NAT, NCR, Necomm, NetApp, Netgear, IPAD, Netopia, NetScreen, NetSilicon, Nexland, Nib, Nokia, Nortel Networks, NSG, Okidata, Packet Engines, Packet8, Packeteer, Panasonic, PCS, Pelco, Perle, Phillips, Pigtail Express, Pirelli, Pitnet Bowes, Planet, Polycom, PowerShow, Proteon, Proxim, Quantum, Pacal, Radware, Raptor, RCA, Redback, Ricoh, Ringdale, Rio, RoadLanner, Rockwell, Savin, Secure Computing, Sega, Sequent, Sharp, Shiva, Siemens, Sipura, SMC, Smoothwall, Softek, SonicWall, Sony, Spirent, StackTools, Stratus, Sun, Symantec, Symbol, Systech, Tahoe, Tainet, Talaris, Tally, Tandberg, Tandem, Tektronix, Telebit, Telindus, Telocity, Teltrend, Terayon, Thales, Thomson, Toshiba, TrueTime, Turtle Beach, US Robotics, VersaNet, VxWorks, WatchGuard, WuT, WTI, WYSE, XCD, Xcomax, Xerox, Xylan, Xylogix, Xyples, Xyxel, Zero One Tech, ZoomAir

WAP and Wireless Capable Devices - Summary

Internet Scanner 7.0 SP2 is able to identify nearly XXX different WAP's or network devices with wireless capabilities. The following is a summarized list of the vendors whose devices we identify:

2Wire, DataVoice, Actiontec, Aironet, Apple, ARLAN, BenQ, Billion, BreezeCOM, Cisco, Compaq, D-Link, Fiberline, Linksys, Motorola, Netgear, Netopia, Nokia, Planet, Proxim, Siemens, Panasonic, SMC, Symbol, US Robotics, Zcomax, ZoomAir

Complete List of Identifiable Systems

2Wire Home Portal 100 residential gateway, v.3.1.0	3Com NETBuilder Remote Office 222 router
3Com Home Connect Cable Modem	3Com NETBuilder-II, OS version SW/NB2M-BR-5.1.0.27
3Com OfficeConnect 812 aDSL router	3Com OfficeConnect Netbuilder router
3Com OfficeConnect Remote 812 aDSL Router	3Com / USR TotalSwitch Firmware: 02.02.00R
3Com Sharkfin/Tailfin Cable Modem	3Com Access Builder 4000 Switch
3Com Sharkfin/Tailfin Cable Modem	3Com LANplex 6004 switch
3Com NBX PBX	3Com SuperStack II switch (OS v 2.0)
3Com AccessBuilder Remote Office 500 router	3Com SuperStack II switch SW/NBSI-CF,11.1.0.00S38
3Com NETBuilder & NetBuilder II OS v 9.3	3Com SuperStack II RAS remote access server
3Com NETBuilder & Netbuilder II router OS v8.1	3Com Terminal Server ESPL CS2100
3Com NETBuilder II Router Ver 11.4.0.51	3Com Datavoice WAP or TxPORT PRISM T1 CSU/DSU
3Com NETBuilder Remote Office 222 (ESPL-310), Version 10.1 (SW/NBRO-AB,10.1)	ACC Amazon 9.2.29 or Congo 9.2.35 WAN concentrator
	Acorn RISC OS 3.60 (Acorn TCP/IP Stack 4.07)

Acorn RISC OS 3.70 using AcornNet TCP/IP stack or RISC OS 4 (Pace, RISCOS Ltd)
Actiontec 1520 DSL gateway firmware 8.2.0.16
Adtran Atlas 890 digital cross-connect device
Aironet 630-2400 V3.3P Wireless LAN bridge
Aironet Wireless Bridge running firmware V5.0J
Aironet AP4800E v8.07 - Aironet (Cisco?) 11 Mbps wireless access point
Alcatel 1000 ADSL (modem)
Alcatel 1000 DSL Router
Alcatel Speed Touch *DSL modem/router
Alcatel Speed Touch 510 *DSL modem/router
Alcatel Speed Touch Pro aDSL modem
Alcatel OmniStack switch version 4.3.3 GA
Alcatel Advanced Reflexes IP Phone or IBM x450 remote management console
Allied Telesyn AT-S10 version 3.0 on an AT-TS24TR hub
Allied Telesyn AT-3726 Ethernet Switch: 2.1cycleA
Allied Telesyn AT-8748XL or Rapier 24i Switch
Allied Telesyn AT-RP24i switch or Ericsson HiS V2.0
Alteon Networks ACEswitch 180e Software Version 8.0.62.7
Alteon/Nortel ACE Director 3 Version 6.0.42-B
Alteon AceSwitch 110 or Cantillion C100 ATM Switch
Alteon ACEswitch 184 V. 8.0.49
Amiga OS 3.5 (Miami TCP/IP Stack v3.1)
AmigaOS 2.1 running AmiTCP4.3
AmigaOS 3.1 running Miami Deluxe 0.9m
AmigaOS 3.5/3.9 running Miami Deluxe 1.0c
AmigaOS AmiTCP/IP 4.3
AmigaOS AmiTCP/IP Genesis 4.6
AmigaOS Miami 2.1-3.0
AmigaOS Miami 3.0
AmigaOS Miami 3.1-3.2
AmigaOS Miami Deluxe 0.9 - Miami 3.2B
Amos 2.3A
APC MasterSwitch Network Power Controller
APC network-enabled UPS
APC UPS system
APC UPS System network management card (runs AOS)
APC Web/SNMP UPS management card
Apollo Domain/OS SR10.3.5
Apollo Domain/OS SR10.4
Apple A/UX 3.1.1 SVR2 or OpenStep 4.2
Apple Color LaserWriter 12/660 PS (Model No. M3036)
Apple Color LaserWriter 600 Printer
Apple LaserWriter 16/600 PS, HP 6P, or HP 5 Printer
Apple LaserWriter 8500 (PostScript version 3010.103)
Apple AirPort Express WAP
Apple Airport Extreme Base Station (WAP)
Apple Mac OS X 1.1-1.2 (Rhapsody 5.5-5.6) on a G3
Apple Mac OS X Server 1.0-1.0-1 (Rhapsody 5.3 - 5.4)
Apple Mac OS X 10.1 - 10.1.4
Apple Mac OS X 10.1.4 (Darwin Kernel 5.4) on iMac
Apple Mac OS X 10.1.5
Apple Mac OS X 10.1.5-10.2.8
Apple Mac OS X Server 10.1.2 (ppc)
Apple Mac OS X 10.2.6
Apple Mac OS X 10.2.6 (Jaguar)
Apple Mac OS X 10.2.8 (Jaguar)
Apple Mac OS X 10.3.0 - 10.3.3
Apple Mac OS X 10.3.3 (Panther)
Apple Mac OS 7.0-7.1 With MacTCP 1.1.1 - 2.0.6
Apple Mac OS 7.1
Apple Mac OS 7.5.5 - 9
Apple Mac OS 8 running on an LC 475
Apple Mac OS 8.0
Apple Mac OS 8.1
Apple Mac OS 8.1 running on a PowerPC G3 (iMac)
Apple Mac OS 8.5
Apple Mac OS 8.5.1 (Appleshare IP 6.0)
Apple Mac OS 8.6
Apple Mac OS 9 - 9.1
Apple Mac OS 9.04 or HP-UX B.11.00
Apple Mac OS 9.2.2
Apple Newton MessagePad 2100, Newton OS 2.1
Arescom 800 series dsl router
Arescom NetDSL 1000NDS series ADSL router
ARLAN BR2000E V5.0E Wireless Radio Bridge
Asante FriendlyNet FR3004 Series Internet Hub
Asante 2072 Ethernet hub
Asante 6524-2G GigE switch
Asante IntraStack Ethernet Switch (6014 DSB Versions: BP(2.06), FW(1.03))
Asante IntraSwitch 5324
Asante IntraSwitch 6216M firmware v2.05A
Ascend DSLPipe DSL-50S-CELL DSL router
Ascend Max 1800 50Ap8+ or 2024 router
Ascend P130 Router
Ascend P75 router
Ascend Pipeline 400/T1 (Software V 4.5B)
Ascend Pipeline 50
Ascend Pipeline 50 rev 4.6C
Ascend Pipeline 50 running 5.1A Firmware
Ascend Pipeline P130 or 50
Ascend GRF Router running Ascend Embedded/OS 2.1
Ascend / Lucent MAX TNT terminal server
Ascend Mac 6000 Terminal access server
Ascend Max terminal server firmware 7.0.4
Ascend TNT OS +5.0Ap48+
Ascend/Lucent Max (HP,4000-6000) version 6.1.3 - 7.0.2+
Atari Mega STE running JIS-68k 3.0
Atari MiNT with MiNTnet 1.03 running on Atari TT
AtheOS
AtheOS/Syllable 0.4.2
Auspex Fileserver (AuspexOS 1.9.1/SunOS 4.1.4)
Avaya G3 PBX version 8.3
Avaya IP Office 403 PBX
Avaya TN2302 Prowler/Medpro H.323 gateway
Avocent Net KVM switch
Avocent CPS 1610 serial port server
Axent Raptor Firewall running on Windows NT
AXIS or Meridian Data Network CD-ROM server
AXIS Stack -- CD-ROM Server or Print Server or Camera Server
AXIS StorPoint CD E100 CD-ROM Server
AXIS 540 Ethernet print server ver 5.48
AXIS 540 print server
AXIS 540/542 print server v5.30
AXIS 200+ Web Camera running OS v1.42
AXIS 2120 network camera
AXIS NetEye Camera Server V1.20
AXIS Network Print Server
AXIS 2100 Network Camera running Linux/CRIS v2.32
Barix Exstreamer network MP3 player
Bay Networks BLN-2 Network Router or ASN Processor revision 9
Bay Networks BayStackInstant Internet router
Bay Networks BayStack Instant Internet 400 SoHo Router
Bay Networks BayStack 310T switch
Bay Networks BayStack 28115/ADV Fast Ethernet Switch
BeOS 4 - 4.5
BeOS 5.03 Personal Edition
BeOS 5.03 x86 with the BONE network stack
BeOS 5.0.4 (BeOS 5 Pro + BONE 7a)
BeOS 5.1d0/DANO on x86
Belkin DSL/Cable Router
Bell Labs Plan9 Second Edition
Bell Labs Plan9 Fourth Edition (x86)
BenQ Wireless Lan Router AWL700
Billion ADSL router

Billion BIPAC-741GE V2 aDSL Router
 BinTec BIANCA/BRIK-XS broadband router V. 6.X
 BinTec BingoDSL Router Firmware version 7.1 Rev.1 Patch 11
 BinTec XS/XM ISDN access router V. 4.9.1-4.9.3
 Blue Coat Security Proxy Appliance
 Blue Coat ProxySG (SGOS 3.2.2.1)
 Blue Coat Secure Gateway
 Borderware 5.0 Firewall
 Borderware 5.2 firewall
 Borderware 6.0.2 firewall
 Bosch Security Systems's Divar Digital Video Recorder Version 2.00
 BreezeCOM BreezeACCESS wireless bridge
 Brix 1000 Verifier
 BSDI BSD/OS 2.0 - 2.1
 BSDI BSD/OS 3.0-3.1 (or possibly Mac OS, NetBSD)
 BSDI BSD/OS 4.0-4.0.1
 BSDI BSD/OS 4.0.1
 BSDI BSD/OS 4.2
 Cabletron SmartSwitch
 Cabletron SmarySwitch Router 8000 System Software, Version 3.1.B.16
 Cabletron SmartSwitch Router 8600
 Cabletron Switch
 CacheFlow 6000 web proxy cache running CacheOS 4.1.05
 CacheFlow 6000 web proxy running Security Gateway 2.1.0
 CacheFlow 6x5 web proxy cache running CacheOS 3.1.19-4.1.05
 CacheFlow CacheOS (web proxy cache) CFOS 2.1.08 - 2.2.1
 CacheFlow CacheOS 3.1 on a model 6000 web proxy cache
 CacheOS (CacheFlow 2000 proxy cache)
 Canon GP 160 PF printer
 Canon iR2200 printer
 Canon iR6000 printer
 Canon iR7200 Printer
 Canon photocopier/fax/scanner/printer GP30F
 Capellix 3000 Modular SAN Switch
 CastleNet AR502/GlobespanVirata GS8100 DSL router
 Cayman 2E DSL/CABLE router
 Cayman 3000 DSL Router
 Chase IOLan Terminal Server
 Chase/Perle IOLAN Terminal Server
 Chase/Perle IOLAN terminal server
 Check Point Firewall-1 NG on Sun Solaris 8
 Check Point FireWall-1 4.0 SP-5 (IPSO build)
 Check Point Firewall-1 on Windows NT 4.0 Server SP4-SP5
 Check Point SecurePlatform NG FP3
 Cisco CacheOS (1.1.0)
 Cisco 675 DSL router -- cbos 2.1
 Cisco ACNS 5.1 Content Engine
 Cisco Content Engine 505 Software V. 4.2.1
 Cisco Content Engine 560 running Content Networking System V. 4.2.3
 Cisco Accesspoint 1200
 Cisco AIR-WGB340 V8.38 wireless workgroup bridge 340
 Cisco WGB350 Wireless WorkGroup Bridge
 Cisco 760 Series ISDN router (non IOS) or IBM Stackable Hub
 Cisco 761 running c760-in.r.NET3 4.3(1)
 Cisco 762 Non-IOS Software release 4.1(2) or 766 ISDN router
 Cisco 766 non-IOS software 4.2(3.5)
 Cisco Soho 97 router running IOS 12.3(8)
 Cisco 3000 Series VPN Concentrator
 Cisco 3000-series VPN concentrator (OS ver 4.1.2)
 Cisco VPN 3000 or 3Com 4924 GigE Switch
 Cisco Local Director 420 version 2.1.1
 Cisco Localdirector load balancer
 Cisco LocalDirector load balancer
 Cisco X.25/TCP/LAT Protocol Translator ver 8.2(4)
 Cisco 1548M managed switch
 Cisco Catalyst 1900 switch, Bay networks 350-450 switch, or Netopia DSL/ISDN router
 Cisco Catalyst 2820 switch Management Console
 Cisco Catalyst 5500/6500 or Alcatel OmniSwitch/Router
 Cisco Catalyst switch
 Router/Switch/Printer/Firewall (LanPlex 2500/Cisco Catalyst 5505/Cisco 6509/Trancell Webramp/Xylan
 OmniSwitch)/Epson Stylus (100BTX-NIC HP Secure Web Console, SonicWall firewall appliance 3.3.1)
 Cisco AS5200 terminal server
 Cisco ATA 186 POTS<->VOIP phone gateway device
 Cisco ATA 186 POTS<->VoIP phone gateway device
 Cisco 7960 SIP Phone running OS 4.2
 Cisco IP phone (POS3-04-3-00, PC030301)
 Cisco IP Phone 7910 or 7940 Firmware 3.1
 Cisco IP Phone 7960
 Cisco VoIP Phone
 Cisco Cache Engine Web Proxy
 Cisco 2501/2504/4500 router with IOS Version 10.3(15) - 11.1(20)
 Cisco 1600/3640/7513 Router (IOS 11.2(14)P)
 Cisco 1601 (IOS 11.0) or DECBrouter90T1 (Runs Cisco IOS 10.2(5))
 Cisco 4500 router running IOS 11.2(2)
 Cisco 4500-M router running IOS 11.3(6) IP Plus
 Cisco 7206 router (IOS 11.1(17))
 Cisco 7206 running IOS 11.1(24)
 Cisco IOS 11.3 - 12.0(11)
 Cisco IOS v11.14(CA)/12.0.2aT1/v12.0.3T
 Cisco Router/Switch with IOS 11.2
 Cisco switch/router with IOS 11.1(7)-11.2(8.10)
 Cisco 2501/5260/5300 terminal server IOS 11.3.6(T1)
 Cisco 827 ADSL router running IOS 11.2(11)
 Cisco 827 ADSL router running IOS 12.1(1)XB1
 Cisco 1601 router running IOS 12.0(8)
 Cisco 1601R router running IOS 12.1(5)
 Cisco 2611 router running IOS 12.2(7a)
 Cisco 2620 running IOS 12.2(19a)
 Cisco 3600 router running IOS 12.2(6c)
 Cisco 4000 Series running IOS 12.0(10.3)
 Cisco 5200 router running IOS v12.0(15)
 Cisco 7200 router running IOS 12.1(14)E6
 Cisco 7204 router running IOS 12.1(19)
 Cisco 7206 router running IOS Version 12.2(13)T8
 Cisco 837 router running IOS 12.3(11)T
 Cisco IOS 12.0(21) (On a 2514 router)
 Cisco IOS 12.0(3.3)S (perhaps a 7200 router)
 Cisco IOS 12.0(5)WC3 - 12.0(16a)
 Cisco IOS 12.0(7)T (on a 1700 router)
 Cisco IOS 12.1(4) on a 2600 router
 Cisco IOS 12.2(8)T5 on a 7507 router
 Cisco router or WAP running IOS 12.2
 Cisco router running IOS 12.0(18)S or 12.0(18)S1
 Cisco router running IOS 12.1
 Cisco router running IOS 12.1(5)-12.2(7a)
 Cisco router running IOS 12.1.5-12.2.13a
 Cisco router running IOS 12.2(8)T
 Cisco router running IOS 12.3(6) - 12.3(10)
 Cisco SOHO 91 secure router running IOS 12.3
 Cisco switch running IOS 12.1(23)E
 Cisco Catalyst 2924XL switch running IOS 12.0(5)
 Cisco Catalyst 2950 switch running IOS 12.0(5.3)WC(1)
 Cisco IOS 12.0(5)WC5a on a catalyst 2900XL switch
 Cisco 1200 access point (WAP) running IOS 12.2(8)
 Cisco AP1220 WAP running IOS 12.2(11)
 Cisco CPA2500 (68030) or 2511 router
 Cisco uBR 7223 router
 Cisco Catalyst 4006 Switch running NmpSW 7.4(2)

Cisco PIX 4.2(2) Internal Interface
 Cisco PIX 515 firewall running software 4.4(5)
 Cisco PIX Firewall running PIX 4.1(5)
 Cisco PIX v4.2 Firewall
 Cisco PIX Firewall (PixOS 5.2 - 6.1)
 Cisco Secure PIX Firewall Version 5.0(2)
 Cisco Firewall (PIX 6.1.4 - 6.2.2)
 Cisco PIX 501 firewall running PIX 6.1(1)
 Cisco PIX 515 or 525 Firewall running 6.1(4) - 6.2(1)
 Cisco PIX Firewall running PIX 6.2 - 6.3.3
 Cisco PIX Firewall Version 6.1(2)
 Cisco PIX Firewall Version 6.2(1)
 Cisco PIX Firewall Version 6.2(2) - 6.3
 Cisco PIX 506 Firewall
 Cisco Aironet WAP, Brocade Fibre Switch, or Sun Remote System Console
 Cnet CNIG904B Internet Broadband Gateway firmware version 1.11
 CNT UltraNet EDGE (SAN Router) V. 1.4.1.2
 Cobalt Linux 4.0 (Fargo) Kernel 2.0.34C52_SK on MIPS or TEAMInternet Series 100 WebSense
 Commodore 64 with TFE Ethernet Card (Contiki)
 Commodore 64 with TFE Ethernet Card (uIP TCP/IP stack)
 Compaq Inside Management Board
 Compaq Integrated Lights Out remote configuration Board
 Compaq ProLiant DL580 Integrated Lights-Out remote configuration board V1.06
 Compaq iPAQ Connection Point or Netgear MR814
 Compaq Tru64 UNIX (formerly DIGITAL UNIX) 4.0e
 Compaq Tru64 UNIX 4.0e
 Compaq Tru64 UNIX 4.0f - 4.0g
 Compaq Tru64 UNIX 5.0 or DEC OpenVMS 7.2
 Compaq Tru64 UNIX V5.1 (Rev. 732)
 Compaq Tru64 UNIX V5.1 (Rev. 732)
 Compaq Tru64 UNIX V5.1A (Rev. 1885)
 Compaq Tru64 UNIX V5.1A (Rev. 1885)
 Compaq Tru64 UNIX v5.1B
 OSF1 5.0 Rev. 910 (AKA Compaq/DIGITAL Tru64 UNIX)
 Compaq T1010 Thin Client Windows CE 2.12
 Compatible Systems ISDN/leased-line/dialup Microrouter 2220R w/ firmware v4.5
 Compatible Systems ISDN/leased-line/dialup MicroRouter 900i v3.0.9
 Compatible Systems (RISC Router, IntraPort)
 Compex CGX3224 Switch
 CompUSA Broadband Router
 Computone Power Rack IntelliServer terminal server Release 1.5.4d
 Conexant ADSL Router
 Contiki 1.2-devel0 embedded OS on Ethernet card
 Convex OS Release 10.1
 Convex SPP-UX 5.2.1
 SPP-UX 5.x on a Convex SPP-1600
 Embedded device: HP Switch, Copper Mountain DSL Concentrator, Compaq Remote Insight Lights-Out remote console card, 3Com NBX 25 phone system or Home Wireless Gateway, or TrueTime NTP clock
 Corega BAR SW-4P Broadband Access Router
 UNICOS 10.0.0 on Cray 90
 Cray UNICOS/mk 8.6
 Cray UNICOS 9.0 - 10.0 or UNICOS/mk 1.5.1
 Cray UNICOS 9.0.1ai - 10.0.0.2
 Cray Unisys LX/NX MCP 46.1/HMP 5.0 on LX5120
 Cyberguard 4.0 firewall
 Cyberguard Firewall 5.2
 Cyclades PathRouter
 Cyclades PathRouter/PC
 Cyclades PathRAS Remote Access Server v1.1.7
 Cyclades PathRouter V 1.2.4
 Cyclades PathRAS Remote Access Server v1.1.8 - 1.3.12
 D-Link 2630 broadband router
 D-Link 704P Broadband Gateway or DI-713P WAP
 D-Link DI-604 Ethernet router
 D-Link DI-701, Version 2.22
 D-Link DI-701 Residential Gateway or KA9Q NOS - KO4KS-TNOS v. 2.30
 D-Link DI-704 Cable/DSL Residential Gateway, firmware 2.50 build 9
 D-Link DI-804 Cable/DSL Residential Gateway
 D-Link DI-804HV VPN Router or US-Robotics 8022 WAP
 D-Link DSL-300G+ DSL modem
 D-Link DSL-500 DSL modem
 D-Link Corp. DE-1800 Stackable Hub SNMP/Telnet Agent Software version 2.04B3 boot PROM 2.21
 D-Link Print Server
 D-Link VoIP Gateway GS-104SH
 D-Link DI-series, Sitecom BHS WAP, or SMC Barricade
 D-Link DI-713P WAP
 D-Link DI-713P Wireless Gateway (2.57 build 3a)
 D-Link DI-774 WAP
 D-Link DWL-5000AP WAP/BSP 1.3
 D-Link, SMC, Tonze, or US Robotics wireless broadband router
 D-Link DRC-1000AP or 3Com Access Point 2000
 D-Link DCS-1000 webcam with firmware 1.06
 D-Link dcs-5300w Wireless WebCam
 D-Link DVC-1000 Wireless Broadband VideoPhone
 AOS/VS on a Data General mainframe
 AOS/VS or VSII
 Data General DG/UX Release R4.11MU02
 Data General DG/UX Release R4.20MU02
 Data General DG/UX Release R4.20MU04
 Data General DG/UX Release R4.20MU06
 4.3BSD-tahoe on a MicroVax III
 DEC OSF/1 V1.3A - 2.0
 DIGITAL UNIX OSF1 V 3.0,3.2,3.2C
 DEC DIGITAL UNIX OSF1 V 4.0-4.0F
 DIGITAL UNIX OSF1 V 4.0,4.0B,4.0D,4.0E,4.0F
 DEC OSF1 (AKA Compaq/DIGITAL Tru64 UNIX) Version 5.0.0
 OSF/1 (AKA Compaq/DIGITAL Tru64 UNIX) 5.60
 DECNIS 600 V4.1.3B multiprotocol bridge/router
 DECserver 700-16 terminal server, Network Access SW V2.2
 DEC OpenVMS 6.1
 DEC OpenVMS 6.2
 DEC OpenVMS 6.2 - 7.2-1 on VAX or AXP
 DEC OpenVMS 6.2/Alpha
 DEC OpenVMS Alpha 6.2 running DIGITAL TCP/IP Services (UCX) v4.0
 DEC OpenVMS AXP 6.2 running Attachmate Pathway 3.1 TCP stack
 DEC OpenVMS V6.1 on VAX 4000-105A
 DEC OpenVMS 7.1
 DEC OpenVMS 7.1 Alpha running DIGITAL's UCX v4.1ECO2 TCP/IP package
 DEC OpenVMS 7.1 using Process Software's TCPWare 5.3 TCP/IP package
 DEC OpenVMS 7.2
 DEC OpenVMS 7.3
 DEC OpenVMS 7.3 (Alpha) TCP/IP 5.3
 DEC OpenVMS 7.3 (Compaq TCP/IP 5.3)
 DEC OpenVMS 7.3-1
 DEC OpenVMS Alpha V7.1-1H2 running DIGITAL TCP/IP Services (UCX) V4.2
 DEC OpenVMS V7.1 on VAX 6000-530
 DEC OpenVMS v7.1 VAX running Process Software's TCPWare 5.1-5 TCP/IP package
 DEC OpenVMS v7.3 on VAXStation 4000/60

DEC OpenVMS VAX V7.3, Process Software MultiNet V5.0
 DEC OpenVMS/Alpha 7.1 using Process Software's TCPWare V5.3-4
 DEC VMS MultiNet V4.2(16)/ OpenVMS V7.1-2
 DEC VMS MultiNet V4.4 / OpenVMS V7.1
 DEC TOPS-20 Monitor 7(102540)-1,TD-1
 DEC TOPS-20 Monitor 7(21733),KL-10 (DEC 2065)
 DEC Ultrix 4.1
 DEC Ultrix 4.2 - 4.5
 DEC OpenVMS 7.3-1 w/Multinet 4.4
 DEC VAX 7000-610 or 4200/SPX OR 6000-430
 DEC VAX/VMS 5.3 on a MicroVAX II
 DEC VAX/VMS 5.5-2
 DEC VAX/VMS v5.5, CMU-TEK TCP/IP stack
 DEC VMS MultiNet V4.1(16)
 Dell Tape Library MSL6030
 Dell Powervault 132T Automated Tape Library
 Dell 3324 PowerConnect Switch
 Digital Link DL2001 CSU/DSU Management Access Processor
 Digital Networks VNswitch 900
 Digital NetRouter NR3000
 Digital NetRouter NR3100
 Draytek Vigor 2000 ISDN router
 Draytek Vigor 2200e DSL router v2.1a
 Draytek Vigor 2200e DSL router v2.1b
 Easytel TeleWell EA-701B ADSL Modem/Router
 Edimax BR-6004 broadband router
 Edimax PS-901 Print Server model 1P/13E-9.5.12
 Efficient Networks/SpeedStream DSL router
 Eicon Diva1830 ISDN router running 1.5 firmware
 ELSA LANCOM 1100 office router
 ELSA LANCOM DSL I-10 Office router
 ELSA LANCOM DSL/10 Office DSL router
 ELSA LANCOM DSL/10 office router
 ELSA LANCOM DSL/T-1611 Office router
 EMC DART running on a Data Mover fileserver. Version T4.1.8.1
 EMC IP4700 Filer
 Enterasys XSR-1805 Security Route
 Enterasys/Cabletron switch running Enterasys E8.2.0.0 - E9.0.0.0
 EPSON Ethernet Ver. 4.20 6.04, 13395E-98
 Epson Stylus 800n/EPSON Ethernet Ver. 4.20
 Ericsson HM220dp ADSL modem/router
 Ericsson Tigris Access Server Software V. 12.1.*
 Exabyte X80 tape backup robot
 Extreme Gigabit switch (unknown version)
 Extreme Networks Black Diamond switch
 Extreme Networks Alpine 3804 Switch running Extremeware 6.2.1
 F5 Labs Big/IP HA TCP/IP Load Balancer (BSDI kernel/x86)
 F5 Labs BIG-IP Load Balancer Kernel 4.1.IPTF-03 (x86)
 F5 Labs BIG-IP Load Balancer Kernel 4.2.PTF-05a (x86)
 FastComm FRAD (Frame Relay Access Device) F9200-DS-DNI -- Ver. 4.2.3A
 FiberLine Wireless DSL router
 FiberLine WL-1200R1 (also known as InterEpoch IWE-1200A-1) Wireless Broadband Router (WAP)
 DSL Router: FlowPoint 144/22XX v3.0.8 or SpeedStream 5851 v4.0.5.1
 FlowPoint/2000 - 2200 SDSL Router (v1.2.3 - 3.0.4) or ASCOM Timeplex Access Router
 Fore ForeThought 7.1.0 ATM switch
 Foundry FastIron Edge Switch (load balancer) 2402
 Foundry Load Balancer OS Ver 7.2.X - 7.3.X
 Foundry Networks BigIron 8000 load balancer
 Foundry FastIronII 4000 load balancer running 06.6.34T43
 Foundry NetIron load balancer OS Ver. 7.1.23T13
 Foundry Networks, Inc. Router/Load balancer, IronWare Version 06.5.12T43
 Foundry ServerIron XL load balancing IP Switch Version 06.0.00T12
 FreeBSD 2.1.0 - 2.1.5
 FreeBSD 2.2.1 - 4.1
 FreeBSD 2.2.1-STABLE
 FreeBSD 3.2-4.0
 FreeBSD 3.4-RELEASE
 FreeBSD 4.0-20000208-CURRENT
 FreeBSD 4.1.1 - 4.3 (x86)
 FreeBSD 4.10-STABLE
 FreeBSD 4.2 - 4.3-RC (X86)
 FreeBSD 4.3 - 4.4-RELEASE
 FreeBSD 4.3 - 4.4PRERELEASE
 FreeBSD 4.4 for i386 (IA-32)
 FreeBSD 4.4-5 or Apple Mac OS X 10.0.4 (Darwin V. 1.3-1.3.7 or 4P13)
 FreeBSD 4.4-STABLE
 FreeBSD 4.5-RELEASE (or -STABLE) through 4.6-RC (x86)
 FreeBSD 4.6
 FreeBSD 4.6 through 4.6.2 (July 2002) (x86)
 FreeBSD 4.6-RC on Alpha
 FreeBSD 4.6.2-RELEASE
 FreeBSD 4.6.2-RELEASE - 4.8-RELEASE
 FreeBSD 4.7 - 4.8-RELEASE
 FreeBSD 4.7-RELEASE
 FreeBSD 4.7-RELEASE through 4.8-RELEASE (x86)
 FreeBSD 4.7-RELEASE-p3
 FreeBSD 4.7-STABLE
 FreeBSD 4.8-RELEASE through 4.9-STABLE
 FreeBSD 4.8-STABLE
 FreeBSD 4.8-STABLE - 4.9-PRERELEASE
 FreeBSD 4.9 - 5.1
 FreeBSD 5.0-CURRENT (Apr 2002)
 FreeBSD 5.0-RELEASE
 FreeBSD 5.0-RELEASE or -CURRENT (Jan 2003)
 FreeBSD 5.1-CURRENT (June 2003) on Sparc64
 FreeBSD 5.1-RELEASE (x86)
 FreeBSD 5.2-CURRENT (Jan 2004) on x86
 FreeBSD 5.2-CURRENT - 5.3-BETA2 (x86) with pf scrub all
 FreeBSD 5.2.1 (SPARC)
 FreeSCO 0.27 (Linux 2.0.38)
 FreeSCO 0.27 (Linux 2.0.38)
 Galacticomm WorldGroup BBS (MajorBBS) w/TCP/IP
 Galacticomm WorldGroup BBS / Vircom TCP/IP stack
 Gandalf LanLine Router
 Gauntlet 4.0a firewall on Solaris 2.5.1
 Genius print server
 Gnat Box Light firewall v3.0.3 (from the inside interface)
 GNet BB0040 or SAR 703 DSL modem + router
 GNU Hurd 0.2 (GNUmach-1.2/Hurd-0.2) x86
 Grandstream HT-286 POTS<->VoIP phone gateway device
 Grandstream IP Phone
 GrandStream IP Phone (BudgeTone-100)
 Grandstream.com BudgeTone 101 IP Phone
 PalmOS 5.2.1 on Handspring Treo
 Hawking PS12U Embedded Print Server
 Print Server: Zero One Tech 3000, Hawking PN7117, or EUSSO UPS1211-B
 Hitachi HI-UX/MPP
 HP-BSD 2.0
 HP Procurve Routing Switch 9304M
 HP printer w/JetDirect card
 HP Deskjet 6127 printer
 HP JetDirect Card in a LaserJet printer
 HP LaserJet 4000N Printer

HP LaserJet 4100N printer
 HP LaserJet 5
 HP LaserJet printer/print server
 HP printer w/Jet Direct
 HP printer w/JetDirect card
 HP printer w/JetDirect J2556b card (firmware A.05.32)
 HP Integrated Lights Out remote configuration Board
 HP Advantstack Etherswitch 224T or 210 or Netgear
 RP114 DSL-Router w/Switch
 HP-UX 10.20 # 9000/777 or A 712/60 with tcp_random_seq = 1 or 2
 HP-UX 10.20 A 9000/715 or 9000/899
 HP-UX 10.20 E 9000/777 or A 712/60 with tcp_random_seq = 0
 HP-UX B.10.01 A 9000/715
 HP-UX B.10.20 9000/897
 HP-UX B.10.20 A 9000/715 or 9000/712 or 9000/871 with tcp_random_seq = 1
 HP-UX B.10.20 A 9000/750
 HP-UX B.10.20 A with tcp_random_seq = 0
 HP-UX release B.10.20 version A
 HP-UX 11
 HP-UX 11 w/tcp_isn_passphrase
 HP-UX 11.00
 HP-UX 11.11
 HP-UX B.11.00 A 9000/785
 HP-UX B.11.00 A 9000/800
 HP-UX B11.00 U 9000/839
 Mac OS 9, or HP-UX 11.00
 HP-UX 7.0
 HP-UX 9.01 - 9.07
 HP-UX A.09.00 E 9000/817 - A.09.07 A 9000/777
 HP MPE/iX 5.5
 HP MPE/iX 5.5 on HP 3000
 HP Entria X station (running Netstation 7.x)
 VxWorks 5.3.x bases system (usually an Ethernet hub or switch such as HP ProCurve) or Bay Networks MicroAnnex XL terminal server
 Huawei Quidway R2621 router running VRP 1.5.6(1)
 Huawei Quidway Router R2621E VRP 1.5.6
 Hydra HydraWEB 5000
 IBM AIX 3.2
 IBM AIX 3.2 running on RS/6000
 IBM AIX 3.2.3 running on RS6000 model 560
 IBM AIX 3.2.5 (Bull HardWare)
 IBM AIX v3.2.5 - 4
 IBM AIX 4.0 - 4.2
 IBM AIX 4.02.0001.0000
 IBM AIX 4.1
 IBM AIX 4.1-4.1.5
 IBM AIX 4.2
 IBM AIX 4.2-4.3.3
 IBM AIX 4.2.X-4.3.3.0
 IBM AIX 4.3
 IBM AIX 4.3.1 on a IBM RS/6000 R40
 IBM AIX 4.3.2.0-4.3.3.0 on an IBM RS/*
 IBM AIX 4.3.3.0 on an IBM RS/*
 IBM AIX v4.1 running on a C10
 IBM AIX v4.2
 IBM AIX Version 4.3
 IBM AIX 5.1
 IBM AIX 5.1 - 5.2
 IBM AIX 5.1 on a p610-6C1
 IBM AIX 5.1-5.2
 IBM AIX 5.2 (on RS/6000)
 IBM AIX 5.2.3
 IBM 8222 hub
 IBM 8239 Token-Ring Stackable Hub
 IBM 6400 printer or Microplex Pocket Print Server
 IBM Infoprint 12 Net-Printer
 IBM Remote Supervisor Adapter II
 IBM 2210 router
 IBM 2210 Router MRS 2.x on Token Ring interface
 IBM 8210 Multiprotocol Switching Server/router for ATM networks
 Proteon OpenRoute 2.1 on a RBX200 Router or IBM 2210 Router
 IBM 3494 Magnetic Tape Library
 IBM LAN RouteSwitch/Xylan OmniSwitch Version 3.2.5/NeXT
 AGE Logic, Inc. IBM XStation
 IBM MVS
 IBM MVS TCP/IP stack V. 3.2 or AIX 4.3.2
 IBM MVS TCP/IP TCPMVS 3.2
 IBM MVS TCP/IP TCPOE 3.3
 IBM OS/2 V 2.1
 IBM OS/2 V.3
 IBM OS/2 Warp 4.0
 IBM OS/2 Warp Server for E-business (Aurora) Beta
 IBM OS/2 Warp Server for E-business (Aurora) Beta OS/2 Warp Server for eBusiness 4.52
 IBM OS/390 V2R10
 IBM OS/390 V5R0M0
 IBM AS/400 V3 and V4
 IBM OS/400 V3
 IBM AS/400 running OS/400 R4.4
 IBM OS/400 V4 r4-5
 IBM OS/400 V4R2M0
 IBM OS/400 V4R5
 IBM OS/400 V4R5M0
 IBM AS/400 running OS/400 5.1
 IBM OS/400 V5R1 - V5R2
 IBM OS/400 V5R1M0
 IBM OS/400 V5R2M0
 IBM VM/CMS (mainframe)
 IBM VM/ESA 2.2.0 CMS Mainframe System
 innovaphone IP200/IP400 VOIP phone/gateway
 Intel NetStructure 3110 VPN Gateway
 Intel InBusiness Print Station
 Intel NetportExpress 10 3-port print server
 Intel NetportExpress 10/100 3-port print server
 Intel NetportExpress PRO print server V04.33a
 Intel NetportExpress XL print server
 Intel ER9100 Express Router 9100
 Intel Express 510T switch
 Intel Express 510T switch
 Intel NetStructure 470T Switch
 Intergraph CLiX R3.1 Vr.7.6.20 6480
 Intergraph Workstation (2000 Series) running CLiX R3.1
 IPCop 1.20 Linux 2.2.2X-based firewall
 IQinVison IQeye3 webcam
 IronPort C60 email security appliance
 Isolation Systems Infocrypt Enterprise
 Ixia 1600 -- Ixia Socket/Serial TCL traffic generation and analysis server
 Juniper Networks JUNOS 5.3 on an Olive router
 Juniper Networks JUNOS 5.6R1.3 routing software on x86 box
 Juniper Networks router JUNOS 5.5R1.2
 Juniper Router running JUNOS
 KA9Q amateur radio OS
 Kentrox DataSMART 656 CSU/DSU, USR NETserver/16, or 3Com OfficeConnect ADSL router
 Konica-Minolta magicolor2300DL printer controller
 Kronos Time clock
 Kyocera FS-1700+ printer
 Kyocera IB-21 Printer NIC
 Kyocera SB-4e printer NIC
 Labtam MT300, X-Terminal Kernel
 Lantronix LSB4 Ethernet Switch

Lantronix CoBox serial device server or Radionics RAM IV Alarm
 Lantronix ETS16 terminal server Version V3.4/5(961028)
 Lantronix ETS16P terminal server Version V3.5/2(970721)
 Lantronix SCS1600 secure console server version V1.0/2(010620)
 Lantronix EPS1 print server version V3.5/1(970325)
 Lantronix EPS1 Printer Server
 Lantronix EPS2 print server Version V3.5/2(970721)
 Lantronix ETS16 terminal server
 Leunig ePower Switch b723 v5.2
 Lexmark M412n network printer
 Lexmark Marknet X2031e printer
 Lexmark Optra network printer
 Lexmark Optra printer
 Lexmark Optra printer w/MarkNet XL Network Adapter
 Lexmark Optra S Printer
 Lexmark T520 printer
 Lexmark T522 printer
 Lexmark T522/T622 printer
 LG Goldstream LR3001f router, software version 4.0
 LG Goldstream LR3100p router, software version 1.0-1.5
 Liebert Intellislot SNMP/Web Card (power devices, air conditioning, etc.)
 Liebert-Hiross HiSNMP A/C controlling unit
 Linksys WET-11 wireless Ethernet bridge
 Linksys WGA54G Wireless Game Adapter (bridge)
 Linksys BEFSR41 broadband router
 Linksys BEFSR41 V3 Etherfast cable/DSL router
 Linksys BEFVP41 VPN Router
 Linksys EtherFast print server
 Linksys PSUS4 USB Printserver and switch
 Linksys WPS54GU2 wireless print server
 Linksys BEFW11S4 or BEFSR81 WAP
 Linksys BEFW11S4 WAP or BEFSR41 router
 Linksys WAP11 Wireless AP
 Linksys, D-Link, or Planet WAP
 Linux 1.0.9
 Linux 1.2.13
 Linux 1.2.8 - 1.2.13
 Linux 1.3.20 (x86)
 Linux 2.0.0
 Linux 2.0.27 - 2.0.30
 Linux 2.0.32-34
 Linux 2.0.32-34
 Linux 2.0.34-38
 Linux 2.0.35 (S.u.S.E. Linux 5.3 (i386))
 Linux 2.0.39
 Linux 2.1.19 - 2.2.25
 Linux 2.1.24 PowerPC
 Linux 2.1.76
 Linux 2.1.88
 Linux 2.1.91 - 2.1.103
 Linux 2.2.12 - 2.2.25
 Linux 2.2.13
 Linux 2.2.13 (SuSE; x86)
 Linux 2.2.14
 Linux 2.2.16C37_III on Sun Cobalt
 Linux 2.2.19
 Linux 2.2.19 (Alpha)
 Linux 2.2.19 - 2.2.20
 Linux 2.2.19 on a DEC Alpha
 Linux 2.2.20 SMP
 Linux 2.2.21 SMP (x86)
 Linux 2.2.22
 Linux 2.2.5 - 2.2.13 SMP
 Linux 2.3.12
 Linux 2.3.28-33
 Linux 2.3.47 - 2.3.99-pre2 x86
 Linux 2.3.49 x86
 Astaro Security Linux 4 (Kernel 2.4.19)
 Gentoo 1.2 linux (Kernel 2.4.19-gentoo-rc5)
 Linux 2.2.16
 Linux 2.4.0 - 2.5.20
 Linux 2.4.0 - 2.5.20 w/o tcp_timestamps
 Linux 2.4.0-test5
 Linux 2.4.10 - 2.4.18
 Linux 2.4.16 - 2.4.18
 Linux 2.4.17 on HP 9000 s700
 Linux 2.4.18
 Linux 2.4.18 (PPC)
 Linux 2.4.18 (x86)
 Linux 2.4.18 (x86)
 Linux 2.4.18 - 2.4.19 w/o tcp_timestamps
 Linux 2.4.18 - 2.4.20
 Linux 2.4.18 - 2.4.20 (x86)
 Linux 2.4.18 - 2.4.20 (x86)
 Linux 2.4.18 - 2.6.7
 Linux 2.4.19 (Mandrake, X86)
 Linux 2.4.19 (x86)
 Linux 2.4.19 - 2.4.20
 Linux 2.4.19 w/grsecurity patch
 Linux 2.4.20
 Linux 2.4.20 (Itanium)
 Linux 2.4.20 (Red Hat)
 Linux 2.4.20 (X86, Redhat 7.3)
 Linux 2.4.20 - 2.4.22 w/grsecurity.org patch
 Linux 2.4.20 x86
 Linux 2.4.20-ac2
 Linux 2.4.21 (Suse, X86)
 Linux 2.4.21 (x86)
 Linux 2.4.21 (x86, RedHat)
 Linux 2.4.21 - 2.4.23
 Linux 2.4.22 (SPARC)
 Linux 2.4.22 (x86) w/grsecurity patch and with timestamps disabled
 Linux 2.4.22 - 2.6.3 (x86, Gentoo)
 Linux 2.4.22 - 2.6.7
 Linux 2.4.22 through 2.6.7 w/grsec (x86, Gentoo)
 Linux 2.4.22-ck2 (x86) w/grsecurity.org and HZ=1000 patches
 Linux 2.4.22-gentoo-r2 i686
 Linux 2.4.22-gentoo-r5 (x86) w/grsecurity
 Linux 2.4.22-gentoo-rc
 Linux 2.4.23 (x86)
 Linux 2.4.23-grsec w/o timestamps
 Linux 2.4.25 w/grsec (x86)
 Linux 2.4.26-gentoo-r6 w/grsec
 Linux 2.4.27 with grsec
 Linux 2.4.3 SMP (RedHat)
 Linux 2.4.6 - 2.4.21
 Linux 2.4.7 (x86)
 Linux 2.4.7 (zLinux on OS/390)
 Linux 2.4.7 through 2.6.3
 Linux 2.5.25 - 2.6.3 or Gentoo 1.2 Linux 2.4.19 rc1-rc7)
 Microsoft Xbox running Debian Linux 2.4.20
 Linux 2.5.5 (Gentoo)
 Linux 2.6.0 (x86)
 Linux 2.6.0-test10 (x86)
 Linux 2.6.0-test5 - 2.6.0 (x86)
 Linux 2.6.0-test5 x86
 Linux 2.6.0-test5-love3 (x86)
 Linux 2.6.0-test7 (x86)
 Linux 2.6.0-test9 - 2.6.0 (x86)
 Linux 2.6.3 - 2.6.7
 Linux 2.6.3 - 2.6.8
 Linux 2.6.4 (Suse)
 Linux 2.6.6
 Linux 2.6.7 - 2.6.8
 Linux 2.6.7 w/grsecurity.org patch

Linux 2.6.8 (Debian)
 Linux Kernel 2.6.3 - 2.6.7 (X86)
 Linux kernel 2.6.4 (x86)
 Linux kernel 2.6.4 (X86)
 Linux kernel 2.6.5 - 2.6.8
 ComOS based terminal server - Livingston PortMaster or
 U.S. Robotics/3Com Total Control
 ATT UNIX SVR4.2 on a Lucent Definity voicemail system
 Lucent Portmaster 4 running ComOS v4.0.3c2
 lwIP (Lightweight TCP/IP stack) version lwip-0.5.3-win32
 Magna SG10 intranet router
 Maxim-IC TiniOS DS80c400
 Maxim/Dallas TINI embedded Java v1.02b
 Maxim/Dallas TINI embedded Java v1.02d
 MegaBit Gear TE4111C modem
 Meridian Data Network CD-ROM Server (V4.20 Nov 26
 1997)
 Microbase VirtuOS v3.00b R.09
 Microplex Print Server
 Bart's Network Boot Disk 2.7 (X86) MS-DOS
 NCSA Telnet (dos)
 NCSA Telnet 2.3.08 for the PC (DOS)
 Watt-32 DOS tcp/ip stack
 WNOS 5.0 on Microsoft DOS 6.22
 Microsoft Xbox (modified)
 Microsoft Xbox (modified) running evolutionX
 Microsoft Xbox (modified) running UnleashX 0.26
 Microsoft Windows Longhorn Preview
 Microsoft Windows .NET Enterprise Server RC2 (Version
 5.2, build 3718.dnsrv.021114-1947)
 Microsoft Windows Server 2003
 Microsoft Windows Server 2003 Enterprise Edition
 Microsoft Windows Server 2003 or XP SP2
 Microsoft Windows Server 2003 Standard Edition
 Microsoft Windows 3.1 with Trumpet Winsock 2.0 revision
 B
 Microsoft Windows for Workgroups 3.11 / TCP/IP-32 3.11b
 stack or Windows 98
 Microsoft Windows 95 4.00.950B
 Microsoft Windows 95 4.00.950B (IE 5 5.00 2314.1003)
 Microsoft Windows 95/98/NT 4.0 or PocketPC
 Microsoft Windows 98
 Microsoft Windows 98 4.10.1998
 Microsoft Windows 98 or 98SE
 Microsoft Windows 98 SP1
 Microsoft Windows 98 SP2
 Microsoft Windows 98SE
 Microsoft Windows 98SE + IE5.5sp1
 Microsoft Windows 98SE SP1
 Microsoft Windows 98SE with security patch A
 Microsoft Windows Millennium Edition
 Microsoft Windows Millennium Edition (Me)
 Microsoft Windows Millennium Edition (Me), Windows
 2000 Pro or Advanced Server, or Windows XP
 Microsoft Windows NT 3.51 SP5, NT 4.0 or 95/98/98SE
 Microsoft Windows 2000 AD SP4
 Microsoft Windows 2000 Advanced Server SP3
 Microsoft Windows 2000 AS SP4
 Microsoft Windows 2000 Pro
 Microsoft Windows 2000 Pro RC1 or Windows 2000
 Advanced Server Beta3
 Microsoft Windows 2000 Pro SP2
 Microsoft Windows 2000 Pro SP2 or Windows XP SP1
 Microsoft Windows 2000 Pro SP3
 Microsoft Windows 2000 Pro SP4
 Microsoft Windows 2000 Server SP1
 Microsoft Windows 2000 Server SP2
 Microsoft Windows 2000 Server SP3
 Microsoft Windows 2000 Server SP3 or Windows XP Pro
 SP1
 Microsoft Windows 2000 Server SP4
 Microsoft Windows 2000 Server SP4 or XP SP1
 Microsoft Windows 2000 SP1
 Microsoft Windows 2000 SP2
 Microsoft Windows 2000 SP3
 Microsoft Windows 2000 SP4
 Microsoft Windows 2000 SP4 or Windows XP SP1
 Microsoft Windows Millennium Edition (Me), Windows
 2000, or Windows XP
 Microsoft Windows NT 3.10 (Build 528)
 Microsoft Windows NT 4.0 Server SP5-SP6
 Microsoft Windows NT 4.0 SP 6a + hotfixes
 Microsoft Windows NT 4.0 SP3
 Microsoft Windows NT 4.0 SP5-SP6
 Microsoft Windows NT 4.0 SP6a
 Microsoft Windows NT 4.0 SP6a with Kerio WinRoute Pro
 4.27 Firewall
 Microsoft Windows NT 4.0 Terminal Server Edition
 Microsoft Windows NT 4.0 Workstation SP6a
 Microsoft Windows NT 4.0 Workstation SP6a
 Microsoft Windows NT Version 4 (Build 1381) Service Pack
 6a
 Microsoft Windows XP Home Edition
 Microsoft Windows XP Home Edition (German) SP1
 Microsoft Windows XP Home SP1
 Microsoft Windows XP Pro
 Microsoft Windows XP Pro (German)
 Microsoft Windows XP Pro (German) SP1
 Microsoft Windows XP Pro (Italian)
 Microsoft Windows XP Pro or Windows 2000 Pro SP2+
 Microsoft Windows XP Pro RC1+ through final release
 Microsoft Windows XP Pro SP1
 Microsoft Windows XP Pro SP1 or Windows 2000
 Advanced Server SP3
 Microsoft Windows XP Pro SP1 or Windows 2000 SP3
 Microsoft Windows XP Pro Version 5.1 Build 2600
 Microsoft Windows XP SP1
 Microsoft Windows XP SP1 or Windows 2000 SP3
 Microsoft Windows XP SP1 or Windows 2000 SP4
 Microsoft Windows XP SP2
 Microsoft Windows XP SP2 (firewall enabled)
 HP Jornada running Microsoft Windows CE 2.11
 (Handheld/PC Pro 3.0 PDA)
 Microsoft PocketPC 3.0.11171 running on Compaq iPAQ
 3870 Pocket PC
 Microsoft Windows CE or Pocket PC (PDA or other
 embedded device)
 Microsoft Windows 2000 Pro SP4
 Microsoft Windows 2000 Professional with SP4 and latest
 Windows Update patches as of August 11, 2004
 Microsoft Windows Longhorn eval build 4051
 Minix 32-bit/Intel 2.0.0
 Minix 32-bit/Intel 2.0.3
 Minix v2.0.2 32bits
 Minolta Di183 printer/copier
 Minolta QMS Printer running VxWorks 5.4.2
 Mirapoint messaging server M1000 (OS v 1.0.0)
 MiraPoint messaging server v3.1
 Motorola System V/68 version R3V7 on a 68030
 Cable Modem: Motorola Surfboard/CG4500E or Thomson
 TCM390
 Motorola SurfBoard 4401 cable modem
 Motorola SurfBoard SB4100E Cable Modem
 Motorola SURFboard SBG1000 broadband router
 MultiTech standalone firewall box, version 3
 MultiTech MultiVOIP Version 2.01A Firmware
 MultiTech CommPlete (modem server) RAScard
 MultiTech CommPlete Controller (terminal server)
 NAT LANB/290 router Console Program V4.00
 NCD X server (NCD16 server 2.3.0 03/12/91)

NCR MP-RAS 3.0.x
 NCR MP-RAS 3.01
 NCR S26 server (i386) running NCR MP-RAS SVR4 UNIX System
 NCR server running MP-RAS SVR4 UNIX System Version 3
 NEC UX/4800
 Necomm NB1300 DSL router
 Cisco 11151/Arrowpoint 150 load balancer, Neoware (was HDS) NetOS V. 2.0.1 or HP Entria C3230A
 NetApp Data ONTAP 3.1.6 or BSDi 1.1
 NetApp Data ONTAP 5.1.2 - 5.3.5r2
 NetApp Data ONTAP 6.1.2R3 on an F840 filer
 NetApp Data ONTAP Release 6.3.1
 NetApp F360 or F760 Filer
 NetApp ONTAP Release 6.3.3
 Network Appliance Filer running Data ONTAP Release 6.4.3
 NetApp NetCache C1100 (NetApp 5.1D4)
 NetApp NetCache C1100 with NetAppliance 5.0
 NetApp NetCache C6100 (NetApp 5.5)
 NetApp NetCache C760 os 4.x
 NetApp NetCache running OS 5.4R2
 NetBSD 1.0 big endian arch
 NetBSD 1.0 i386
 NetBSD 1.0 little endian arch
 NetBSD 1.1 - 1.2.1 little endian arch
 NetBSD 1.2 - 1.2.1 big endian arch
 NetBSD 1.3 - 1.3.3 big endian arch
 NetBSD 1.3 - 1.3.3 little endian arch
 NetBSD 1.3H (after 19980919) or 1.3I (before 19990119) little endian arch
 NetBSD 1.3H-1.5 big endian arch
 NetBSD 1.3I through 1.6
 NetBSD 1.5.2 running on a Commodore Amiga (68040 processor)
 NetBSD 1.5_ALPHA i386
 NetBSD 1.6
 NetBSD 1.6 BETA 4 i386 (20020630 snapshot)
 NetBSD 1.6.1 (Alpha)
 NetBSD 1.6.2 (X86)
 NetBSD 1.6.2 - 2.0_BETA or Avocent Switchview net KVM switch
 NetBSD 1.6ZC (SPARC)
 NetBSD 1.6ZD
 netbsd 1.6ZH - 2.0RC4
 NetBSD/Alpha 1.5.2 on a DEC 3000/300 LX
 Netgear DG824M WAP
 Netgear FM114P/REPOTEC IP515H Router & Print Server
 Netgear FVL328 vpn/firewall/router
 Netgear PS101 print server
 Netgear PS110 print server
 NetJet Version 3.0 - 4.0 Printer
 IPAD (Internet Protocol Adapter) Model 5000 or V.1.52
 Broadband Router (Farralon Netopia or Compatible Systems 900i)
 Netopia 4541/R7100 DSL router
 Netopia DSL router
 Netopia R5300 Router
 Netopia Cayman 3346 DSL router
 Netopia Cayman 3300-series router/WAP or Radware Web Server Director load balancer
 Netscreen 5GT Plus running ScreenOS 4.0.0r5.3
 Netscreen 5XP firewall+vpn (OS 3.0.1r2)
 Netscreen 5XP firewall+vpn (os 4.0.3r2.0)
 NetScreen-100
 NetSilicon NetARM running ThreadX 2.0
 Network Systems router NS6614 (NSC 6600 series)
 Nexland ISB Pro800 Turbo Cable/DSL router
 NeXT Mach
 NeXTStep/OpenStep 4.2 (Intel)
 NeXTStep 1.0-3.3 or OpenStep 4.0-4.2 (Intel)
 NeXTStep 3.3 or OpenStep 4.1
 NIB 450-E printer network interface
 Nokia M1122 DSL Router
 Nokia Rooftop Wireless Router model R240A
 Nokia IP530 Network Appliance (IPSO 3.4-3.4.2)
 Nokia IPSO 3.7 running CheckPoint FW-1
 Nokia IPSO 3.2-3.5 Running Checkpoint Firewall-1 or NG FP2
 Nokia IPSO 3.2-4.3.1-FCS5 Running checkpoint FW1
 Nokia IPSO 3.6 running CheckPoint FW-1 NG FP2
 Nokia N-Gage v4.03 phone running Symbian OS 6.1
 Nortel Networks BayStack switch
 Nortel Networks Passport 1100 switch
 Nortel Networks Passport 8600 routing switch sw 3.3.0.0
 Nortel CallPilot 100 voicemail system, 3Com Superstack 3 switch, Enterasys switch, HP TopTools remote control card, or Cisco 1538M hub
 Nortel Passport 4400 Series multiservice access switch
 Nortel Networks CVX1800 RAS. Software version 2.02
 Novell NetWare 3.12 - 5.00
 Novell NetWare 3.12 or 386 TCP/IP
 NetWare 4.11 SP7- 5 SP3A BorderManager 3.5
 NetWare 4.11 SP8a - NetWare 5 SP4
 Novell NetWare 4.11-5.0SP5
 NetWare 5.0 SP 3a
 NetWare 5.1 SP3
 Novell NetWare 5.0 with Border Manager
 Novell NetWare 5.00.09 SP06
 Novell NetWare 5.1 SP5
 Novell NetWare 5.1 SP5 with Groupwise
 Novell NetWare 5.1-6.0
 Novell NetWare 5.1SP4 - 6.0
 Novell NetWare 5.1SP5 - 6.5
 Novell NetWare 5.x
 NetWare 6.5 SP2
 Novell NetWare 6 SP1
 Novell NetWare 6 SP2
 Novell NetWare 6.0 SP3
 Novell Netware 6.0 SP4
 NSG 500 router. OS version 7.6.1 (<http://www.nsg.ru>)
 OkiData 20nx printer with OkiLAN ethernet module
 Okidata 7200 Printer
 Okidata OKI C5100 Laser Printer
 Okidata OKI C7200 Printer
 OpenBSD 2.7/SPARC or NFR IDS Appliance (12/10/00)
 OpenBSD 2.1 - 2.3/SPARC
 OpenBSD 2.1/x86
 OpenBSD 2.2 - 2.3
 OpenBSD 2.6 with all available patches as of roughly Feb01
 OpenBSD 2.6-2.8
 OpenBSD 2.6-2.8
 OpenBSD 2.8 (x86)
 OpenBSD 2.9-beta through release (x86)
 OpenBSD 2.9-stable
 OpenBSD Post 2.4 (November 1998) - 2.5
 OpenBSD 3.0 or 3.3
 OpenBSD 3.0 SPARC with pf "scrub in all"
 OpenBSD 3.0-STABLE (x86)
 OpenBSD 3.1 (x86)
 OpenBSD 3.1 on an Alpha
 OpenBSD 3.2 (x86)
 OpenBSD 3.2 with pf scrub and no-df
 OpenBSD 3.3
 OpenBSD 3.3 x86 with pf "scrub in all"
 OpenBSD 3.4 (X86)
 OpenBSD 3.4 - 3.6
 OpenBSD 3.4 x86
 OpenBSD 3.4 x86 with pf "scrub in all"
 OpenBSD 3.4-BETA

OpenBSD 3.5 (SPARC)
 OpenBSD 3.5 with pf "scrub in all"
 OpenBSD 3.6 x86 with pf "scrub in all"
 Pace digital cable TV receiver
 Packet Engines PowerRail 5200 router version 2.6.0r10 - 16 Sep, 1999
 Packet8 DTA310 VoIP/POTS gateway
 Packeteer PacketShaper 4000 v4.1.3b2 2000-04-05
 pSOS embedded IP stack, such as Packeteer IP-PacketShaper 2000 V3.1
 PalmOS 3.5.1 on m100 PDA
 Panasonic IP Technology Broadband Networking Gateway, KX-HGW200
 Panasonic DP-3520 multi-function printer
 Panasonic panafax DX2000 SuperG3 fax machine
 PCS Intus 3100 time management device
 Pelco Network Camera
 Perle JetStream 8500 Serial/Access Server, v 2.6.0
 Phillips ReplayTV 5000 DVR
 Pigtail Express VoIP phone (runs VxWorks)
 Pirelli Microbusiness ADSL router
 Pitney Bowes photocopier, Konica printer/fax/scanner, or Toshiba E-Studio16 printer
 Planet WAP 1950 Wireless Access Point
 Polycom ViewStation
 Polycom ViewStation 512K videoconferencing system
 PolyCom ViewStation video-conferencing system (firmware v7.2)
 PowerShow NetworKam webcam
 Proteon OpenRoute 3.0 gt series router
 Proxim Stratum MP wireless bridge
 Proxim 8571 802.11a Access Point
 QMS Magicolor 2200 DeskLaser printer
 QNX 4.24 - 4.25 realtime embedded OS
 QNX 6.00 realtime embedded OS (x86)
 Quanterra seismic data acquisition system running OS/9 V2.4 on 68K
 Quantum Snap server 4100
 Quantum Snap Server Network Storage Box
 Racal 7100 Host Security Module 1.05 / 5.05
 Radware Content Inspection Director v2.10.03
 Raptor firewall 5.03 on NT 4
 Raptor Firewall 6 on Solaris 2.6
 Cisco 1538M HUB running Cisco 1538M EES (1.00.00) or Assured Access Technology ISAS Switch Release-2.3.0 or Thomson Multimedia RCA DCM245 Cable Modem
 RCA/Thomson cable modem DCM-235/245
 Redback SMS 1800 router
 Redback SMS 1800/10000 router or Thomson TMC 390 cable modem
 Redback SMS500 Redback Networks router AOS Release 5.0.4.0
 Redback SMS 1000-2000 DSL Router
 Ricoh Aficio AP4500 Network Laser Printer
 Ringdale RP21 Print server
 Rio Karma mp3 player
 RoadLanner broadband router BRL-04FW 6.15.02r Build 0091 L:01
 Rockwell Spectrum 100 POTS switcher release 7.2
 Savin 9927 Copier
 SCO OpenServer 5.0.5
 SCO OpenServer 5.0.7
 SCO OpenServer Release 5
 SCO Open Desktop 2.0
 SCO UNIX release 3.2
 SCO UnixWare 2.01
 SCO UnixWare 2.1
 SCO UnixWare 2.1.2
 SCO UnixWare 7.0.0 or OpenServer 5.0.4-5.0.6
 SCO UnixWare 7.1.0 - 7.1.1 (x86)
 SCO UnixWare 7.1.0 x86
 SCO UnixWare 7.1.1
 Secure Computing SECUREZone Firewall Version 2.0
 Secure Computing Sidewinder firewall 3.2 update 4
 Secure Computing Sidewinder firewall 5.2.1.06
 Sega Dreamcast game console
 Sequent DYNIX/PTX 4.4.2
 Sequent DYNIX/ptx 4.4.6 x86
 Sequent DYNIX/ptx V4.2.1
 Sequent DYNIX/ptx V4.4.6
 SGI IRIX 5.2
 SGI IRIX 5.3
 SGI IRIX 6.2
 SGI IRIX 6.2 - 6.5
 SGI IRIX 6.4 - 6.5.3m # Lamont Granquist (again :)
 SGI IRIX 6.5
 SGI IRIX 6.5 (MIPS)
 SGI IRIX 6.5 Origin2
 SGI IRIX 6.5-6.5.15m
 SGI IRIX 6.5.14
 SGI IRIX 6.5.15m on SGI O2
 SGI IRIX 6.5.20m
 SGI IRIX 6.5.7f-6.5.8f
 SGI IRIX 6.5.7f-6.5.8f
 Sharp DIGITAL Imager (copier) AR-507
 Sharp Network Printer AR-337
 Shiva AccessPort Bridge/Router Software V 2.1.0 or 3Com HiPer Access Router Card hardware V1.0.0 software V4.1.59
 Shiva LanRover/8E Version 3.5
 Siemens Santis 50 wireless adsl router
 Siemens Speedstream 2602 DSL/Cable router
 Siemens HICOM 300 Phone switch (PBX)
 Siemens HICOM Phone switch (PBX)
 Siemens S7-400 programmable logic controller
 Siemens HiCom 300E business phone system Release 6.5
 ReliantUNIX-Y 5.44 B0033 RM600 1/256 R10000
 Siemens Reliant UNIX 5.45B20
 Siemens RM200-C40 running ReliantUNIX-N 5.45
 Siemens SINIX-N 5.41C0005
 Siemens SINIX-N 5.43C3002
 Siemens SINIX-Y 5.43B0045
 Siemens SINIX-Y 5.43C4001
 Sipura SPA-1000 or SPA-2000 POTS<->VOIP gateway
 SMC Barricade SMC7004VR2.0EU DSL router
 Panasonic network camera or SMC WAP
 SMC Barricade DSL Router/Modem/Wireless AP
 SMC Barricade Router, firmware 1.94a
 SMC Barricade Wireless Broadband Router (firmware R1.93e)
 Smoothwall Linux-based firewall 2.2.23
 Softek Digi One serial device server
 Sonicwall Pro 200 firewall
 SonicWALL 4060 firewall
 SonicWall SOHO firewall, Enterasys Matrix E1, or Accelerated Networks VoDSL, or Cisco 350 Access Point
 SonicWall SOHO-3 firewall
 SonicWall/10 firewall
 PS2 Linux 1.0 on Sony PS2 game console
 Sony PlayStation 2 Performance Analyser
 SONY NewsOS 6.1.2
 Sony Ericsson P800 mobile phone, Symbian OS v7.0
 Speedstream 5871 DSL router
 Spirent AX4000 Network Testing Tool
 StackTools StackTos 1.0 embedded networking OS
 Stratus VOS Release 14.3.1ae
 Sun StorEdge T3 Storage Array
 Sun Solaris 2.3 - 2.4
 Sun Solaris 2.4 w/most Sun patches (jumbo cluster patch, security patches, etc)
 Sun Solaris 2.5, 2.5.1

Sun Solaris 2.6
 Sun Solaris 2.6 (SPARC)
 Sun Solaris 2.6 - 7 with tcp_strong_iss=0
 Sun Solaris 2.6 - 7 with tcp_strong_iss=2
 Sun Solaris 2.6 - 7 x86
 Sun Solaris 2.6 - 8 (SPARC)
 Sun Solaris 8
 Sun Trusted Solaris 8
 Sun Solaris 9
 Sun Solaris 9 with TCP_STRONG_ISS set to 2
 Sun RSC (Remote System Control card) v1.14 (in Solaris 2.7)
 Sun SunOS 4.0.3
 Sun SunOS 4.1.1 - 4.1.4 (or derivative)
 Sun SunOS 4.1.3_U1 + ISI RFC1323 mods from ISI
 Symantec Enterprise Firewall v7.0.4 (on Solaris 8)
 Symantec Enterprise Firewall 7.0 running on Windows 2000 SP2
 Symbol/Spectrum24 wireless AP
 Systech RCS/3182 Ethernet serial port server (firmware 06D)
 Tahoe OS 1.2.1 running on Tahoe router
 Tainet WANpro 2000i broadband router
 Talaris 1794 Printstation
 Tally 9112 Printer
 Tandberg X-terminal
 Tandem NSK D39
 Tandem NSK D40
 Tektronix Phaser 350 printer
 Tektronix Phaser 560 printer
 Tektronix Phaser printer
 Tektronix/Xerox Phaser printer
 Telebit NetBlazer router version 3.0
 Telebit NetBlazer router Version 3.05
 Telebit NetBlazer router Version 3.1
 Telindus 11xx ADSL Router
 Telocity (DirectTVDSL) Gateway x2 Model
 Telos Zephyr Xstream v2.71p ISDN/POTS/Ethernet audio transceiver
 CPV Telsey broadband + voip residential gateway
 Teltrend (aka Securicor 3net) Router
 Terayon Tj715x cable modem
 Thales WebSentry HSM Crypto Accelerator
 Thomson Speed Touch 510 or 610i *DSL modem
 Toshiba TR650 ISDN Router
 Toshiba estudio 4511 Multifunction Copier/Fax/Scanner/Printer
 Turtle Beach AudioTron 100 network MP3 player or Microsoft Windows 98SE
 Turtle Beach AudioTron network MP3 player
 US Robotics Total Control NETServer Card
 US Robotics broadband router (model #8000-02)
 US Robotics USR8022 broadband wireless router (WAP)
 MOTOROLA VANGUARD 320 IP router running OS version 5.4
 Motorola Vanguard 320 multi-protocol network access device V5.5 - 5.6
 VersaNet ISP-Accelerator(TM) Remote Access Server
 Virtual Access LinXpeed Pro 120 router running Software 7.4.33CM
 WatchGuard Firebox 700 firewall
 Watchguard Firebox II version 7.00
 WatchGuard Firebox SOHO V.5-V.6 firewall
 Watchguard Firebox X700
 WuT Web Thermometer
 Wooksung TelePhoSee WVP-2100 teleconference system
 WTI Internet Power Switch 1.01
 WTI Network Power Switch v3.02
 WYSE Winterm terminal server
 XCD Xconnect print server, firmware version CC8S-3.58 (98.09.21)
 Xerox 8830 Plotter
 Xerox Document Centre 440 w/ CentreWare Internet Services
 Xerox Document Centre ColorSeries 50
 Xerox DocuPrint C55
 Xerox Docuprint N2125 network printer
 Xerox DocuPrint N24/N32/N40 Network Laser Printer
 Xerox DocuPrint N40
 xMach free distributed OS version 0.1 current
 Xylan OmniSwitch 5x/9x Ethernet switch, Xylogics Annex-III Comm server R10.0, or Hitachi HI-UX/WE2
 Xylogics Micro Annex ELS terminal server x7.1.8
 Xylogics Remote Annex 4000 terminal server running LynxOS realtime OS
 Xyplex Network 9000 terminal server
 Xyplex Terminal Server CSERV-20 software v6.0.4
 Xyplex Terminal Server v6.0.2S5
 Xyplex 1600 terminal server running MAXserver V6.0.2 firmware
 Xyplex Maxserver 1600 Terminal Server
 Zcomax Wireless Access Point XI-1500
 ZoomAir IG-4165 wireless gateway (WAP)
 Hardware: Zyxel Prestige broadband router
 Zyxel 944S Prestige router
 ZyXEL P480 ISDN router running ZyNOS v2.42(O.00)
 Zyxel Prestige 642R-11 ASDL router running ZyNOS
 ZyXEL Prestige 643 router
 ZyXEL Prestige 700/Netgear MR314 broadband router
 Zyxel ZyNOS based broadband router (ZyNOS) or Intel Express ISDN router
 Zyxel ZyWALL 1 firewall
 Zyxel ZyWALL 50 (ZyNOS 3.52)