IPv6 Knowledge Base

This IPv6 Product Information was derived from many sources, including the Web sites in section 4 below.

Disclaimer: The presence of information about a product in this list does not constitute an endorsement of that product or the manufacturer or any supplier of that product.

This IPv6 product information is divided into the following categories:

1. Network and Network-related Hardware and Software

- 1.1 IP Transport Layer Products (including Switches, Routers, Gateways, and the like)
- 1.2 Infrastructure Services Products (DNS, SMTP, NTP, DHCP, ADC, tunneling mechanisms, and the like)
- 1.3 Network Monitoring and Scanning Products (such as Port Sniffers, Scanners, and the like)
- 1.4 Security Products (Firewall, Intrusion Detection/Prevention, VPN, encryption, and the like)
- 1.5 Network and Traffic Management and Testing Products (such as SNMP, Monitors, Fault Management, and the like)
- 1.6 Authentication Services Products (PKI, TACACS, Radius, LDAP, Microsoft domain controllers, and the like)

2. Computers of all kinds, and the Software that runs on them

- 2.1 Computers and Network Adapaters (including Personal Digital Assistant [PDA], handheld, laptop, desktop, storage, servers, high performance computing [HPC], and visualization computers)
- 2.2 Operating Systems, Queuing Systems, and Utility Software
- 2.3 Wide-area Service Software (software that supports Web, FTP, TFTP, file, NFS, data bases, print services, and the like)
- 2.4 Wide-area Client Software (software that uses services provided by wide-area and infrastructure services software)
- 2.5 IPv6 conversion tools, utility Software, and guidelines [Information for this category is contained in a separate article.]
- 2.6 System and Application Development Products (Libraries, Compilers, Debuggers, et cetera) [Information for this category is contained in a separate article.]
- 2.7 Third Party (COTS, GOTS, Open Source) Software [Information for this category is contained in a separate article.]

3. Other Devices (Like printers, scanners, FAX machines, Terminal Servers, et cetera)

4. IPv6-related Product Information Web sites (references do not imply accuracy of information)

General Information about IP Transport Layer Products: The majority of commercial devices manufactured in 2001 and later will support IPv6, at least to some extent. In 2003 (depending on the vendor) hardware support for IPv6 started to become available. Prior to that time, support tended to be in software, which was functional but prone to slower performance. Even hardware support for IPv6 does not ensure performance equal to IPv4. High-end devices are more likely to support more IPv6 functionality in hardware and at equivalent performance levels than mid-end or low-end devices. Most devices at layers 1 and 2 of the ISO protocol suite (such as switches) were able to support IPv6 even earlier than 2001. Older layer 1/2 devices may have problems with short IPv6 packets (ICMPv6 or MLD snooping, for example). The software drivers for layer 2/3 devices (and above) may still be adding support for IPv6 features, see comments for specific devices below. A device routing both IPv6 and IPv4 protocols typically requires more RAM and special-purpose memory than when routing only one protocol.

NOTE: See the Note in the header of section 1.2 below regarding proxy servers and Application Delivery Controllers (ADC).

1.1 Information about specific IP Transport Layer Products		Date First			
Manufacturer, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Supported	Comments or Additional Information	Related Web Site
Alcatel-Lucent Technologies www.alcatel-	Service Router (SR)	Operating System	Aug-06		
lucent.com	77xx series	(OS) R4.0			
	7950 Extensible	SR OS 8.0r5	May-12		
	Routing System (XRS)				
Arista Networks, Inc. www.aristanetworks.com	Data Center Switch		none	planned, no date set.	
	7xxx series				
Aruba Networks, Inc. www.arubanetworks.com	Access Points		none		

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	MSR1200 Wireless	initial release	Jan-11		
	Mesh Controller				
	Wireless Mobility Controllers		none		
ASUSTek Computer, Inc. www.asus.com	RT-N56U wireless gigabit router	with firmware update			
	RT-N66U wireless	initial release			
	gigabit router				
A10 Networks, Inc. www.a10networks.com	AX Series Application Delivery Switch		Jun-07	A type of proxy server	
	AX Series Server Load Balancer		Jan-08	A type of proxy server	
BLADE Network Technologies, Inc. (formerly	Blade, BladeCenter,	since at least Blade OS	at least since		
Nortel) www.bladenetwork.net	BladeSystem series	6.1	2007		
Troiter) WWW.commentworksinee	RackSwitch series	since at least Blade OS			
		6.1	2007		
Brocade Communication Systems Inc (formerly	BigIron series		mid-2002 via	IPv6 support upgraded in 2004 with hardware	In some cases additional license may be
Foundry Networks) www.brocade.com	F.1Ii	VM-1	software,slow	support in MG-8 and RX series	requuired
	EdgeIron series of Ethernet switches		2002	Layer 2 device	(see above)
	FastIron series	JetCore with VM-4	mid-2002	routing in software only until 2004	(see above)
	NetIron series	IronCore 1.0.00 with VM-1	mid-2002 via software	IPv6 support upgraded in 2004 with hardware support in XMR/MLX/MLXe/IMR/40G series	(see above0
	IronPoint series	200 wireless, others			(see above)
	ServerIron ADX Data Center Switches	12.2	Sep-10	Layer 2 load balancer and proxy server	(see above0
	TurboIron series		none		(see above)
Buffalo Technologies, Inc. www.buffalo.com	Wireless-N Nfiniti™ Dual Band Gigabit Router & Access Point		2006		
	WZR-HP-G300NH, WHR-HP-G300N and WHR-HP-GN	open source OpenWRT firmware from gogoWARE	Jun-05	IPv6 not supported by Buffalo. It uses any gogoWARE tunnel broker, including the free public anon.freenet6.net and broker.freenet6.net brokers	go6.net/4105/description.asp?product_id=172 &category_id=276
Cable Television Laboratories, Inc. (CableLabs)		2.0-IPv6	draft Aug	used by cable modems involved in data	
www.cablelabs.com	Service Interface Specification (DOCSIS)		2007 issued Nov 2011	distribution over cable television system networks	
		3.0 supports 120Mbps upstream and 160Mbps downstream	announced Aug 2006 device support - - May 2008		
		2.0	Oct-10		
Cisco Systems www.cisco.com	Aggregation Services Routers (ASR) 1000 series	all	May-11		
	Application Control Engine (ACE) series	A5(1.0)	Oct-11	load balancer on a blade card for Catalyst routers and switches. A proxy server	
	Application eXtension Platform (AXP)			blade card for ISR series routers	
	cable routers (all)	all	always	Layer 2 device.	
			Page 2 of 40		

	G : D : G :	IOC VD 2.0		T	1
	Carrier Routing System	IOS XR 2.0	Jun-05		
	(CRS) family				
	Catalyst switches (all)	all		Layer 2 device, some do it in software, so	
			First support	performance is slow. Some do not support IPv6	
			2001	multicast MLD snooping because of short	
				packet length	
	Catalyst	12.2(50)SE	Einst summont	Older versions support packet forwarding in	
	35xx/36xx/37xx		First support	software rather than hardware, so performance	
			late 2004	is slow	
	Catalyst 45xx/49xx	12.2(50)SE		Older version (Sup 5) support packet	
		. (3.3)2	First support	forwarding in software rather than hardware, so	
			late 2004	performance is slow. Sup 6-E or 6L-E uses	
			1410 2004	hardware	
	Catalyst 50xx/65xx/	12.2(33)SXI		Only with Sup 32, Sup 720, or 720-3BXL.	
	76xx	12.2(33)3X1		Firewall Services Module (FWSM) not IPv6	
	/OXX		First support		
			late 2002	capable until 2006. Older Supervisor Engines	
				such as Sup 2 support IPv6 in software so	
				packet forwarding slow	
	ESR 10xxx	same as above	First support	See above comment. Only with PRE-2.	
			2004		
	GSR 12xxx	12.0(19)ST1	First support	Features added in 12.0(23)ST. Some not	
				supported until 12.3 T in 2005. See comment	
			Oct 2001	for 14xx/16xx/17xx series roadmap	
	Integrated Services	18xx/28xx/38xx ISR		IOS licence (SP services) must be purchased	
	Router (ISR)			separately to support IPv6. Rare exception to no-	
	original and G2 series			cost upgrade practice	
	originar and 62 series	19xx/29xx/39xx ISR		No hardware support. Software support (only)	
		1)XX/2)XX/3)XX ISK		for IPv6 in recent IOS releases	
	MDS 9000 family	all		Multilayer Storage Servers with SAN-OS 3.x or	
	WIDS 9000 failing	all	2008	later	
	Nexus 7000 series	- 11	2000	DataCenter Switches with NX-OS	
		all	2008		
	terminal server or	500-CS, ASM-CS,		IPv6 support depends on the router the terminal	
	access router	2610XM, et cetera		server is connected to	
	14xx/16xx/17xx	12.2(2)T and later		Initial support. Other features added in	
				12.2(3)T. After 12.2(8), may need to use "atm	
			May-01	scrambling cell-payload" to restore ATM	
			171ay-01	support with IPv6. Some features not supported	
				until 12.3 T in 2005 Mobility in 12.4(20), but	
				varies by model	
	25xx/26xx/27xx	same as above		See above comment. Also, these models tend to	
	36xx/37xx/38xx		May-01	have no/limited IPv6 support, and 16 MB of	
	40xx			PROM is required.	
	3200 series			mobile and wireless access routers. No mobile	
				IPv6 support (seems strange).	
	45xx/47xx	none	May-01	End of life no IPv6 support.	
	AS53xx/AS54xx/	12.2(2)T and later	AS53xx/AS45	See comment for 14xx/16xx/17xx series	
	AS58xx	12.2(2)1 and later		See Comment for 1-ray 10an/1/an series	
	ASJOAX		xx May01,		
	77,,,,,/72,,,,,/75,	12 2(14(T) 11-4.	AS58xx 2004	See comment for 14xx/16/17	
	72xx/73xx/75xx	12.2(14(T) and later	May-01	See comment for 14xx/16xx/17xx series	
	8xx series	12.3.4(XG) and on	In 2004		
3 3	AE1000 wireless	none	Jun-11		
	adapter				

	Wireless-G WRT54G broadband router	open source firmware from Earthlink		IPv6 not supported by LinkSys. It uses an Earthlink network. Not a general solution,	www.research.earthlink.net/ipv6/ www.research.earthlink.net/ipv6/download/ind
	(microcode before R5 only)	Hom Eurumik	May-05	though source code is available.	ex.html
	broadband router (multiple levels of microcode)	open source OpenWRT firmware from gogoWARE	Jun-05	IPv6 not supported by LinkSys. It uses any gogoWARE tunnel broker, including the free public anon.freenet6.net and broker.freenet6.net brokers	go6.net/4105/description.asp?product_id=172 &category_id=276
	Wireless-N E- and EA- series broadband wireless routers	firmware 1.0.02 adds IPv6 support	Jun-11		
Comtrend Corporation us.comtrend.com	CT-xxxx series wireless gateway	initial release	Mar-12		
	WR-xxxx series wireless routers	initial release	Jul-12		
Coyote Point Systems Inc. www.coyotepoint.com	•	EQ/OS 10	Jan-12	A type of proxy server. EQ/OS 10 supports 6-in-4 tunneling to Internet	
	Equalizer E-series Load Balancers		Jan-12	A type of proxy server	
	Equalizer Omnipoint	EQ/OS 10	Mar-12	A type of virtual proxy server	
Dell Force10 Networks, Inc. www.force10networks.com (formerly Force10, Inc.)	Force10 E-series (E1200, E600, E300) switches	Force10 Operating System (FTOS)	first support 2004, 7.x expanded, 7.3.1 Jan-07 multicast		
	Terascale line cards		See above.		
D-Link Corporation/D-Link Systems Inc. www.dlink.com	DIR-615	rev C1 yes rev D no rev E and later yes			www.dlink.com/ipv6
	DIR-632, DIR-645, DIR 657, DIR-825	initial release			
	Unified Service Router (USR) DSR-500N	initial release	Nov-10		
	USR DSR-1000N	initial release	Nov-10		
	xSTtack DES-3582/52		Nov-09		
	xStack DGS-3400		Nov-09		
Enterasys Networks, Inc. www.enterasys.com A Siemens Enterprise Communications Company	Matrix series switches	?	Oct-03	Older products supported IPv6 in software, so performance was slow	
	Matrix series router	?	Oct-03	Older products supported IPv6 in software, so performance was slow	
Extreme Networks www.extremenetworks.com	switch	ExtremeXOS 7.0	Mar-03	Older layer 3 devices support IPv6 in software, so performance is slow	
	BlackDiamond Ethernet switch		mid 2002	See above	
	Summit "I" Ethernet	ExtremeXOS 7.0	mid 2002	Layer 3 device supports IPv6	
	Summit 200 Ethernet switch	ExtremeXOS 7.0		Layer 3 device supports IPv6	

	various older router	none		Most models that precede the use of the 4th	
	models			Generation Networking Silicon System	
				(4GNSS), such as the Summit 48, don't support	
				IPv6	
Hewlett-Packard Development Company, L.P.	Procurve 2520 Layer 2				
Procurve www.procurve.com	Gigabit Ethernet series		Nov-09		
	0.0				
	Procurve 2910 Layer 2				
	Ethernet switch series		Apr-09		
Hughes Network Systems, LLC	select HN satellite				
www.hughes.com	terminal models		Sep-12		
	select HX satellite				
	terminal models		Sep-12		
Internode www.internode.on.net		all		dual-stack home router	
, , , , , , , , , , , , , , , , , , ,	Treceonini Tradition		Sep-10	dual succession forms	
	NetComm NB6Plus4	all	Sep-10	dual-stack home router includes 802.11 b/g	
Juniper Networks www.juniper.net	M series (M-5 through	JunOS 5.1 except no	5.1 late 2002,	Models below M-320 cannot support IPv6 port	
vamper retworks www.jumper.net	` `	multicast initially	7.4 IPsec	mirroring - hardware limitation - doesn't affect	
	320) and 1171 501105		support 4Q	most user sites. "tcp-established" in IPv6 ACLs	
			2005	in 7.4 4Q2006. MIPv6 in 2011	
	ERX series (ERX-310	JunOS 5.x	2003	Mostly used by Asia/Pacific Rim nations.	
		Junos 3.x	Sep-03		
	through ERX-1440)	JunOS 6.4	402004	Cannot support "tcp-established"	
	J2300, J4300, J6300		4Q2004	Cannot support "tcp-established"	
	SRXxxx series	JunOS 10.4	May-10	combined router/security services	
	SRXxxxx series	JunOS 10.4	May-10	combined router/security services	
	T320, T640	Same as for M series	Same as for M	At some future date, will be able to support IPv6	
			series	port mirroring. "tcp-established" in IPv6 ACLs	
				in 7.4 4Q2006. MIPv6 in 2011	
Marconi Systems Inc. www.marconi.com	BXR-5000 service edge		2003		
	router				
	FORE ASX-200BX	all hardware, needs	always	Layer 2 device	
		ForeThought 8.0	ar ay s		
		all hardware, needs	always	Layer 2 device	
		ForeThought 8.0	urways		
	FORE ASX-4000			Layer 2 device	
	multiservice switch-		2003		
	router				
		all hardware, needs	always	Layer 2 device	
		ForeThought 8.0	arways		
	Softswitch XCD5000		Sep-04	digital voice/PBX and Session Initiation	
			5cp-04	Protocol (SIP) server	
Motorola, Inc. www.motorola.com	SURFboard eXtreme	SB6120	Jun 00	DOCSIS 3.0 compliant	
	cable modem		Jun-09		
NEC Corporation www.nec.com	5010, 730, 2010		1997		
	IXxxxx series	5.2.16			
	ProgrammableFlow	V4	Ion 12	OpenFlow IPv6 support	
	Controller		Jan-13		
Netgear, Inc. www.netgear.com	XSM7224S 10Gbps	initial release	Sep-10		
	switch				
	N900 Wireless router	initial release	Jun-12		
Nippon Telephone & Telegraph (NTT)	X-40 router	G7.5			
www.ntt.co.jp/index_e.html					
Nortel Networks Limited	AN/ANH/ARN/ASN	BayRS 12.0			
www.nortelnetworks.com (now part of Avaya,	routers	,	1997 via		
Inc. www.avaya.com)			software		
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	BN/BCN/BLN routers	BayRS 12.0	1997 via software		
	Ethernet Routing Switch 54xx/86xx	BayRS 12.0	1997 via software	Also known as a Passport	
	8660 Service Delivery Module (SDM)		Sep-02	For Passport 8600. Runs Check Point Firewall-1	
Sandvine Incorporated ULC www.sandvine.com	Policy Traffic Switch (PTS) family		Feb-10		
Spirent Communications www.spirentcom.com	Extreme 24xx				spirentcom.com/landing_solutions.cfm?ID=17
Vitesse Semiconductor Corporation www.vitesse.com	Switch-on-a-Chip (SoC) Gigabit Ethernet switches	SparX-II-16	Dec-08		
		SparX-II-24	Dec-08		
Zone Labs, Inc. www.zonelabs.com (A Check Point Software Technologies Ltd. company)	Secure Wireless Router	Z100g		No IPv6 support	
3Com Corporation www.3com.com (an Hewlett Packard Development Company [HP] company)	3xxx, 8xxx, 9xxx	11.0	since 1997	Most available before 2003 do it in software, so performance is slow, later series use hardware	
6WIND www.6wind.com	6WINDGate on all software		since 1996		

General Information about Infrastructure Services Products: This section contains information about software that implements support for or utilities to support protocols for local and remote client software of interest to system and network administrators, such as DDI (DNS, DHCP, and IPAM), Dynamic Host Configuration Protocoll (DHCP), Domain Name Server/Service/ System (DNS), Network Time Protocol (NTP), Internet Protocol Address Management (IPAM), Application Delivery Controllers (ADC), and Simple Mail Transfer Protocol (SMTP). Hardware that supports remote client software (such as tunneling mechanisms) is also included in this section.

NOTE: There is no consistent product nomenclature for proxy servers. The earliest such products were called (reverse) proxy servers. Such products may variously be called an ADC, Application Accelerator (AA), Application Level/Layer Gateway (ALG), or dual-stack ALG (DS-ALG). Application Delivery Switches (ADS), Load Levelers (LL), or Server Load Balancers (SLB)/Load Balancers (LB). A few routers listed in section 1.1 above embed some form of proxy server technology. Some wide-area web servers listed in section 2.3 below may also support some form of proxy serving.

1.2 Information about specific Infrastructure Services Products		Date First	,		
Manufacturer, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Supported	Comments or Additional Information	Related Web Site
Afilias Limited www.afilias.info	flexDNS		Feb-10	DNS management	
Alcatel-Lucent Technologies www.alcatel-lucent.com	VitalQIP 1200 DNS/DHCP server	7.0 (7.0 Build X improves support)	DNS Jul 2006 DHCPv6 Feb 2011		
	DNS Management	initial release		Anti-spam	
Array Networks, Inc. www.arraynetworks.com	APVxxxx series of AppVelocity ADCs	8.2	Jul-11	A type of proxy server	
Blue Coat Systems, Inc. www.bluecoat.com	Blue Coat Proxy SG series	5.5	Mar-10	Secure web gateway. A type of proxy server	
	MACH5 300/600/900/9000	initial release	Feb-11		
BlueCat Networks, Inc. www.bluecatnetworks.com	Adonis 500 DHCP/ DHCPv6 server	2.0	Mar-07		
	Adonis 1000 DHCP/ DHCPv6 server	2.0	Mar-07		
	Proteus 2150 IP Address Management (IPAM) Platform		May-07		
	Proteus 5000 IPAM		May-07		

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Brekeke Software, Inc. www.brekeke.com	Session Initiation Protocol (SIP) Server	v3	Jul-12		
	` /	mama	est. 2Q 2012	formerly owned by Peregrine Systems	varvav nome odv. com
	IPControl, IPControl	none	est. 2Q 2012	IPAM supporting dual-stack and related	www.remedy.com
•	Sapphire		since 2005	services	
Cisco Systems www.cisco.com	DNS/DHCP Manager And Server Suite	3.51g			
	Prime Network Registrar	8.0	Jul-11	integrated DNS, DHCP and IPAM software	
Citrix Systems, Inc. www.citrix.com	Access Gateway		since 2007	A type of proxy server. See the Citrix Blog "Are Citrix Products IPv6 Ready?" http://blogs.citrix.com/2010/07/13/are-citrix-products-ipv6-ready/	
	NetScaler	8.0 enahnced in 9.0	since 2007	A type of proxy server	
Cloudmark, Inc. www.couldmark.com	Cloudmark Authority		Oct-11	message filtering	
	Cloudmark Gateway		Oct-11	MTA	
	Cloudmark Sender Intelligence		Oct-11	Anti-spam	
Dataek Applications, Inc. www.datatekcorp.com			2005	One of the first dedicated-function proxy servers	
Dibbler klub.com.pl/dhcpv6	dibbler DHCPv6	initial release	2007	DHCPv6 client/server for Linux, Windows, and Mac OS X	Also available on sourceforge.net. A tutorial showing use in Windows XP and Linux is available on www.6deploy.eu/hands-on/M_2-stateful-auto-configuration-DHCPv6.pdf
ONS Park LLC www.dnspark.com	DNS park		Jun-11	DNS management	
DNS.COM LLC dns.com	DNS.com	unknown		DNS management	
Dynamic Network Services, Inc. www.dyn.com (formerly www.dyndns.com)	DYN Spring Server		2009	DNS management	
· · · · · · · · · · · · · · · · · · ·	BIG-IP Global Traffic Manager	10.1	Dec-09	A type of proxy server	
	IPv6 Gateway	10.0	Dec-09	A type of proxy server	
FEI-Zyfer Inc. www.zyfer.com	NTPSync XLS Network Time	383	2006		
fproxy aith.eu.org/programs.html	ffproxy	1.4	Aug-03	Filtering HTTP/HTTPS proxy server	
		2.0		IDANA G	
		3.0	Nov-11	open source IPAM software	
gogoWARE gogoware.gogo6.com	Management	HexOS 4.2 and later	Nov-11 Sep-06	A third generation migration broker, supports wired and wireless connectivity	
gogoWARE gogoware.gogo6.com previously Hexago, Inc.)	Management gogoSERVER			A third generation migration broker, supports	
gogoWARE gogoware.gogo6.com previously Hexago, Inc.) HaCi sourceforge.net/projects/haci/	Management gogoSERVER gogoCPE	HexOS 4.2 and later	Sep-06	A third generation migration broker, supports wired and wireless connectivity A dongle to enable easy access to a tunnel broker (hardware version of gogoCLIENT) open source IPAM software	
gogoWARE gogoware.gogo6.com previously Hexago, Inc.) HaCi sourceforge.net/projects/haci/	Management gogoSERVER gogoCPE	HexOS 4.2 and later initial release	Sep-06 2003	A third generation migration broker, supports wired and wireless connectivity A dongle to enable easy access to a tunnel broker (hardware version of gogoCLIENT) open source IPAM software	ipv6.he.net
gogoWARE gogoware.gogo6.com (previously Hexago, Inc.) HaCi sourceforge.net/projects/haci/ Hurricane Electric www.tunnelbroker.net	Management gogoSERVER gogoCPE HaCi Tunnel Broker	HexOS 4.2 and later initial release	Sep-06 2003 Aug-06	A third generation migration broker, supports wired and wireless connectivity A dongle to enable easy access to a tunnel broker (hardware version of gogoCLIENT) open source IPAM software U.Sbased ISP providing IPv4 networks with access to a remote tunnel broker service	ipv6.he.net
gogoWARE gogoware.gogo6.com (previously Hexago, Inc.) HaCi sourceforge.net/projects/haci/ Hurricane Electric www.tunnelbroker.net Incognito Software Inc. www.incognito.com	Management gogoSERVER gogoCPE HaCi Tunnel Broker Address Commander	HexOS 4.2 and later initial release	Sep-06 2003 Aug-06 2005	A third generation migration broker, supports wired and wireless connectivity A dongle to enable easy access to a tunnel broker (hardware version of gogoCLIENT) open source IPAM software U.Sbased ISP providing IPv4 networks with	ipv6.he.net
gogoWARE gogoware.gogo6.com (previously Hexago, Inc.) HaCi sourceforge.net/projects/haci/ Hurricane Electric www.tunnelbroker.net Incognito Software Inc. www.incognito.com	Management gogoSERVER gogoCPE HaCi Tunnel Broker Address Commander DNS Firewall	HexOS 4.2 and later initial release initial release	Sep-06 2003 Aug-06	A third generation migration broker, supports wired and wireless connectivity A dongle to enable easy access to a tunnel broker (hardware version of gogoCLIENT) open source IPAM software U.Sbased ISP providing IPv4 networks with access to a remote tunnel broker service	ipv6.he.net

	Trinzic DDI	6.3	May-11	DNS, DHCP, DHCPv6, IP address management, NTP, RADIUS server, embedded	
				VitalQIP server	
InfoWeapons, Inc. www.infoweapons.com	SolidDNS		Jan-09	Supports IPv6 and DNSSec	
	SolidGate		Apr-10	A type of ALG	
	SolidProxy		Feb-10	A type of proxy server	
Internet Associates, LLC www.internetassociatesllc.com	Internet Protocol address lifecycle (IPal), IPal.net			IPAM software supports IPv4 and IPv6	
Internet Systems Consortium Inc www.isc.org	Address Family Transition Router (AFTR)	initial release	Mar-10	open source DS-lite software	
	Berkeley Internet Name Domain (BIND) server			Starting with 9.4.3-P1, queries via IPv6 are supported (they were supported in some earlier versions, but not reliably). BIND 9.x.x is more CPU intensive than 8.x.x	
		3.1.0 last pure-IPv4 release 4.1.1	Jan-10	To use both v4 and v6, two instances of the daemon are required, one with the '-6' command line option	
	Domain Information Groper (DIG)	same as BIND		DNS lookup and zone transfer tool included in BIND distribution	
IPplan iptrack.sourceforge.net	IPAM and tracking	6.00-BETA1	Dec-10		
Jagornet Technologies LLC. www.jagornet.com	Jagornet	initial release	Jan-11	DHCPv4/v6 server	
KEMP Technologies, Inc. www.kemptechnologies.com	LM-series Load Balancers	6.0	Jan-12	A type of proxy server	
	Virtual Load Balancer	6.0	Jan-12	A virtual proxy server	
Men & Mice www.menandmice.com	Men & Mice Suite	6	2009	integrated DNS, DHCP and IPAM software overlay	
Meinberg Funkuhren www.meinberg.de/english/index.htm	LANTIME/PZF		2005	Network Time Server with integrated DCF77 PZF Correlation Receiver for NTP	
Microsoft Corporation www.microsoft.com		when used with Windows Server 2008 or later	2008	Both A and SRV resource records required. Prefers a DNS that allows dynamic updates	
		5.2 in Windows.NET Server 2003 family		limited support	
	SMB2	released in conjunction with Microsoft Vista	Mar-07		
Milcord LLC wiki.milcord.com	Botnet Threat Intelligence		Mar-07	using Dynamic DNS reconfiguration to combat botnet threats	
Netapplications.com www.loaddns.com formerly LoadDNS Ltd	LoadDNS		2010	DNS management	
Network DOcumentation Tool (NetDOT) https://osl.uoregon.edu/redmine/projects/netdot		initial release	Sep-11		
Network Information Service (NIS) www.linux-nis.org		most do		A descendent of the Sun Yellow Pages (YP) service	
Neustar, Inc. www.neustar.biz	UltraDNS		2008	DNS management	
Nixu Software Ltd. www.nixusoftware.com	NIXU DHCP Server	2.1	w/DHCPv6 since 2010	DHCP and DHCPv6 software	
	NIXU NameSurfer Suite	6.6.2	2010	IPAM software supporting LDAP, RADIUS and TACACS authentication	

		ı	T		
	NIXU NEE		2010	VLAN and Port ID extraction software	
	NIXU Registry Server		2010	TLD and gTLD Registry software	
	NIXU Secure Name Server (SNS)		2009	DNS software	
NLNet Labs www.nlnetlabs.nl/nsd	Name Server Daemon (NSD)	2.0.0	Feb-04	DNS software	
Nominum, Inc. www.nominum.com	Authoritative Name Server (ANS)		Jul-06	DNS software	
	Centris threat aggregation database				
	Dynamic Configuration Server (DCS)		Jun-09	DHCP and DHCPv6 software	
	Vantio Base Server, MDR, NXR				
Nortel Networks Limited www.nortelnetworks.com	Optivity NetID DNS/DHCP server	none			
NTT/Verio www.v6.ntt.net	Machine-to-machine ConnXtion server (m2mx)	all	Nov-05	SIP over IPv6/IPSec-lite with AES tunnel broker	http://www.v6.ntt.net/02e_01m2mx.html
openH323 www.openh323.org			Oct-02	open source H.323 teleconferencing protocol	
phipam sourceforge.net/projects/phpipam	phipam	initial release	Oct-11	open source IPAM software	
Polipo www.pps.jussieu.fr/~jch/software/polipo/	Polipo	0.8	Nov-03	caching proxy server	
Postfix www.postfix.org	postfix	2.0.20 and later with the TLS 1.24 patch. 2.2 native support	early 2004 early 2005		
Radvd www.litech.org/radvd/	Router Advertisement Daemon (Radvd)	initial release	Apr-01	Linus IPv6 daemon	included in GNU, Red Hat, and SuSE Linux distributions
RadWare Ltd. www.radware.com	Alteon Application Switch Operating System	27.0	Nov-10	A type of proxy server	
	AppDirector	2.20	Jul-10	A type of proxy server	
rdnssd-win32 sourceforge.net/projects/rdnssd-win32/	RDNSSD-wind32	initial release	Nov-08	RDNSSD client for Windows	
Roaring Penguin Software, Inc. www.roaringpenguin.com	CanIt series	6.1.x	Aug-09	email filtering, anti-spam, spam blocker software	
	CanIt Reputation List		Jun-10		
Samba www.samba.org	SAMBA	2.2.x partial support,3.2.0 full support,4 with available patch	mid-2002 July 2008	The open source Server Message Block (SMB) variant for UNIX/Linux	See www.ipv6consultancy.com/ipv6blog for v.4 patch
Sendmail Consortium www.sendmail.org	Send Mail	8.10.0	Feb-00		
www.sixxs.com/main		all	1999	European service providing both end-users and ISPs access to a remote tunnel broker	www.sixxs.net/tools/aiccu/brokers/
Spectracom Corporation www.spectracomcorp.com	NetClock/GPS 92xx	3.1.0	Aug-05	Global Positioning System (GPS) network time server	
Symmetricom www.symmetricom.com	SyncServer S200, S250		Oct-05	GPS network time server	
	SyncServer S250		Oct-05	GPS network time server	
The Network Time Protocol www.ntp.org	NTP source code	4.1.80	Oct-03		
Weird Solutions Corporation broadbandprovisioner.com	Broadband Provisioner	4.1	Feb-09	IPAM supporting dual-threaded DHCP and DHCPv6, DOCSIS 3.0, VoIP and IPTV	

William Data System	S	ZEN Application	initial release	Sep-12	A type of ALG for z/OS	
www.willdata.com		Gateway (ZAG)				
Xerocole, Inc.	www.xerocole.com	DNS WorX	initial release	Feb-11	DNS management system incorporating	
					AnswerX, AuthX, SearchGuide, InformX	
4PSA	www.4psa.com	DNS Manager	4.0	Apr-11		
A Rack-Soft, Inc. tra-	demark			Apr-11		
6Connect, Inc.	www.6connect.com	IPAM	initial release	Oct-11		
				OCI-11		

General Information about Network Monitoring and Scanning Products: Both hardware and software that are used for network monitoring and scanning, and other monitoring, scanning devices and software are included in this category.

1.3 Information about specific Network Monitoring and Scannning Products		Date First	Comments or Additional Information	Related Web Site	
Manufacturer, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Supported	Comments of Additional Information	Related Web Site
Arbor Networks Inc. www.arbornetworks.com	flow analysis	5.1	Dec-09	5.5 improved support. Supports IPv6 only when used with the CP-5500 appliance	
	Peakflow X site flow analysis	4.1	Dec-08		
Consiglio Nazionale delle Ricerche Instituto di Informatica e Telematica servizirete.pi.cnr.it	6Mon	2	Jun-12	various network monitoring features, including rogue RA and rogue DHCP detection	
En Garde Systems, Inc. www.engarde.com	IP-Watcher	none			
	T-Sight	none			
eEye Digital Security www.eeye.com (a BeyondTrust Software, Inc. company)	Retina Enterprise Management (REM) Console	none		first promised in late 2007, not yet delivered	
	Retina Network Security Scanner	none		first promised in late 2007, not yet delivered	
	Retina Vulnerability Scanner	none		first promised in late 2007, not yet delivered	
Fidelis Security Systems, Inc. www.fidelissecurity.com	Fidelis Extrusion Prevention System (XPS)	4.2	Dec-07	Deep Packet Inspection engine	
fping www.fping.com	fping	2.4b2_to-ipv6	Jan-02		
GFI Software Ltd. www.gfi.com	GFiLANguard Network Security Scanner	none			
GL Communications, Inc. www.gl.com	PacketScan	2.73.6	May-12	Ethernet/IP/VoIP traffic analyzer	
halfscan6 www.habets.pp.se/synscan/programs.php?prog=		0.2	Jan-02		
Harris Corporation - STAT www.stat.harris.com		none			
Hping www.hping.org	Hping	none		IPv6 on the "to do" list	built into Security Onion
InfoVista S. A. www.infovista.com	VistaDiscovery series	4.2	Jul-10		
	VistaInsight series	5.1	Jun-12		
InMon Corp. www.inmon.com	sFlow Probe	Versions that work with Traffic Sentinal	Page 10 of 40	An inexpensive Gigabit probe that exports Cisco NetFlow and sFlow data as a layer 2	

	T CC C	4.0 (11 -41-		It makes use of embedded instrumentation	
	Traffic Sentinal	4.0 (dual-stack IPv4/IPv6 may not be	Apr-08	within switches and routers: sFlow (RFC 3176),	
Intellipool AB www.intellipool.se	Intillepool Network M Monitor (INM Pro)	none		within switches and routers, si low (RI C 3170),	
International Computer Science Institute www.icsi.berkeley.edu/	Netalyzr		since Jun-09	Not to be confused with Safer Computing's Netalyzer product. Used with permission	
IPerf dast.nlanr.net/Projects/Iperf/	IPerf	1.7.0	Mar-03		
Ipswitch, Inc. www.ipswitch.com	WhatsUp Gold Premium/Standard	11.0	Sep-07		
IPv6calc www.deepspace6.net/projects/ipv6calc.html	IPv6calc		Jun-03	DNS and reverse DNS address translator for IPv4 and IPv6	
Joint Intrusion Detection System (JIDS) developed by Department of Energy, also called		none in mainline distribution	retired June 11, 2004 by DoE,	IPv6 support added by DREN IPv6 pilot 2005	contact ipv6-team@hpc.mil for source modifications
KismetWireless www.kismetwireless.net	Kismet	none		wireless packet sniffer	
Libpcap www.tcpdump.org	libpcap	most do if enabled when built		network packet analysis library	
Marconi Systems Inc. www.marconi.com	Foreview Foundation	none			
NetPeek netpeek.netfirms.com	NetPeek	none			
NetStumbler www.netstumbler.com	NetStumbler	none			
netcat6 www.deepspace6.net/projects/netcat6.html	netcat6	all	2002	open source software	
nmap www.insecure.org/nmap or nmap.org	nmap	6	May, 2012	Version 6 is a major upgrade, with greatly expanded IPv6 support	built into Security Onion
Northwest Performance Software, Inc. www.netscantools.com	NetScanTools	11	Initial support Apr-11	Limited to Ping, WhoIs, and some DNS tools	
Nprobe freshmeat.net/projects/nprobe/	Nprobe	unknown	2004?		
Packet Sniffer www.packet-sniffer.net	Sniffer	none			
	Sniffer Pro	none			
Paessler AG www.paessler.com	PRTG Network Monitor	v9	Oct-11		
Plixer International www.plixer.com	Scrutinizer NetFlow and sFlow analyzer	7.0	Aug-09		
PMAcct Project www.pmacct.net	pmacct	unknown	since 2005	sFlow and NetFlow monitoring	
Procera Networks, Inc. www.proceranetworks.com	PacketLogic Real-Time Enforcement (PRE)		Q1 2011	Deep Packet Inspection engine	
	PacketLogic Intelligence Center		Q1 2011		
Rapid7 LLC www.rapid7.com	Metasploit Framework series	4.2.0	Feb-12	penetration testing tool. Commercial and open source versions available	
	Nexpose series	4.4	Aug-12	vulnerability discovery, detection, verification, risk classification, impact analysis, reporting and mitigation tool	
Renesys Corp. www.renesys.com	Routing Alarms			IPv6 support will be slow in coming from this Corp. according to the comments made at www.renesys.com/blog/2006/03/bashing_ipv6_at_telecomnext.shtml	

	Routing Intelligence				
Softflowd freshmeat.net/projects/softflowd/	softflowd	0.9.6	Sep-04		
ssldump www.rtfm.com/ssldump	ssldump			An SSLv3/TLS network protocol analyzer	
Sun Microsystems www.oracle.com/us/sun/index.html (an Oracle Corporation company)	snoop	part of Solaris 7 and later	support as per Solaris	capture and inspect network packets	
Sunbelt Software www.sunbelt-software.com	Sunbelt Network Security Inspector	none		SNSI is based on the Harris STAT technology	
Super optimized TCP port surveyor www.tuxfinder.com/packages?defaultname=stro	STROBE	1.06 via patch	2003	STROBE locates and describes all listening top ports on one or several hosts	Patch is available at ftp://ftp.bieringer.de/pub/linux/IPv6/strobe/
Tenable Network Security www.nessus.com	3D Tool	none, and none needed		protocol independent	
	Lightening Console	none, and none needed		scheduling and controller for other Tenable products, and NESSUS	
			late 2007 Apr 2013	IPv6 supported when run from Linux controller added support for all Windows versions	
	NESSUS for Windows	4 v supports Windows	all versions	Microsoft Windows-based derivitive of open source NESSUS analyzer	
	Passive Vulnerability Scanner (PVS)	3.8	Dec-12	passive network vulnerability sniffer	
	Security Center	4.6	Dec-12		
Wildpackets Inc. www.wildpackets.com	AiroPeek for Windows	2.0.5	2003		
	EtherPeek for Mac	4.2.1	2002		
	EtherPeek for Windows	6.0	2003		
	EtherPeek NX	1.0	2002		
	OmniPeek	6.8	May-12		
WinFingerPrint winfingerprint.sourceforge.net	winfingerprint	at least 0.5.1		one of few port scanners that does IPv6 UDP	

General Information about Security Products: Firewalls (hardware devices, software, and virtual), Web Application Firewalls (WAF), National Security Agency (NSA)-approved Type 1 encryptors, Virtual Private Network (VPN) tunneling concentrators and client software, intrusion detection/prevention systems (IDS/IPS), anti-virus/anit-malware/spyware/spam, and other security devices and software are included in this category.

1.4 Information about specific Security Products		Date First			
Manufacturer, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Supported	Comments or Additional Information	Related Web Site
AEP Networks, Inc. www.aepnetworks.com	AEP secure encrypted networking products	none			
AnviCom, Inc. www.salientfed.com (formerly Command Information, Inc.)	Assure6	initial release	Jul-09		
	WebKnight WAF for IIS	none			
Astaro Corp. www.astaro.com	Linux Firewall	none			
	IPSec VPN client	none			
	Security Gateway	8	mid-2010		

ALWIL Software a.s. www.avast.com	avast! 4 Home Edition	4.7.892	Feb-07		
	avast! 4 Professional Edition	4.7.892	Feb-07	see above	
AVG Technologies, Inc. www.avg.com (formerly Grisoft Inc.)	AVG Anti-Malware	2011.1112			
,	AVG Anti-Spyware	2011.1112			
	AVG Anti-Virus	2011.1112			
	AVG Internet Security	none			
Barracuda Networks, Inc. www.barracuda.com	Barracude Web Application Firewall	7.6 firmware	Nov-11	Turned off by default	
	Barracude Web Application Firewall Vx	7.6 firmware	Nov-11	Turned off by default	
BitDefender www.bitdefender.com		2009	May-09		
Bit9, Inc. www.bit9.com	Bit9 Parity Suite	none			
Bivio Networks, Inc. www.bivio.net	Bivio 7000		Apr-06	deep packet inspection (DPI) device	
	Bivio Application Services Gateway (ASG)				
Blue Coat Systems, Inc. www.bluecoat.com	MACH5 WAN Optimization	initial release	Feb-11		
	Secure Web Gateway	initial release	Jun-11		
The Bro Project www.bro-ids.org	Bro Network Security Monitor	2.1	Jul-12	IDS product	
Broadweb Corporation dns.broadweb.com	NetKeeper AIDP 6000	all	Apr-05	IDS/IPS product	
Check Point Software Technologies Ltd. www.checkpoint.com	Check Point	VPN-1, Firewall-1	Aug-02	Source code for Firewall-1 is controlled by a foreign company (Israel)	
	GAiA	initial release	Apr-12	GAiA is a single, unified network security OS that combines the SecurePlatform and Nokia's IPSO.	In Greek mythology, Gaia is the mother of all, representing closely integrated parts to form a single, efficient system.
	SecurePLATform (SPLAT)	R60	Jun-05		
	Security Appliances	GAiA R75.40	Apr-12	Many different sizes and configurations	
	Security Gateway Software Blades	GAiA R75.40	Apr-12	Many different sizes and configurations	
CipherTrust, Inc. www.ciphertrust.com	IronMail	none			
Cisco Systems www.cisco.com	Adaptive Security	7.0	early 2005,	modules for PIX-based firewall, VPN, anit-	
	series		varies by module	virus, anti-spyware, and Intrusion Protection Service (IPS), limited IPv6 multicast support	
	AnyConnect SSL VPN	3.5	May-10		
	Engine (ACE) 30 service module	5(1.0)	Oct-11		
	ACE WAF	none	end-of-life announced Aug 2010		

	In 110 1	I			
	Email Security	initial release	beta 2010		
	Appliance (ESA)			T. C. 11 C. 170 C. 170	
	Intrusion Prevention System (IPS) 42xx	6.2	mid 2008	Limited initial IPv6 capability	
	PIX-5xx	7.0	early 2006	first release of Cisco firewall with some IPv6 support	
	Virtual Private Network	4.0.3(F) or 3000		IPv6 tunnels (ISATAP, gogoWARE, et cetera)	
	(VPN) client	. ,	No direct	may work through the VPN once it is	
			support	established. Does not lock IPv6 stack when in	
				use	
	VPN 30xx Concentrator	3000	No direct	IPv6 tunnels (ISATAP, gogoWARE, et cetera)	
			support	will often work through the VPN once it is	
			support	established.	
	Web Security	initial release	beta 2010		
	Applicance (WSA)		00tu 2010		
Citrix Systems, Inc. www.citrix.com	NetScaler Application Firewall	8.0	since 2007	A type of WAF	
Cloudshield Technologies	BladeCenter DPI for the	hardware IP neutral	No intrinsic	No plan for IPv6 support	
www.cloudshield.com	IBM PN41 blade		support		
	CS-2000	hardware IP neutral	No intrinsic	No plan for IPv6 support	
			support		
Computer Associates International, Inc.	Anti-Spam Plus	2007	Feb-07	IPv6 support evolving. See	
www.ca.com	(formerly Qurb)			http://arcserve.com/us/about/content.aspx?cid=1	
	Anti-Spyware	2007	Feb-07	see above	
	Anti-Virus	2007	Feb-07	see above	
	eTrust EZ Firewall Internet Security Suite	none 2007	Feb-07	see above	
	Personal Firewall	2007	Feb-07	see above	
CyberOperations, Inc.	Filter List Manager/Anti		1 00-07	See above	
www.cyberoperations.com	Network Terrorism				
yy	(FLM/ANT)				
	Network Access				
	Compliance (NAC)		Jul-08		
	Control Director				
Dell, Inc. www.dell.com	E-class Network	5.5.1			
(formerly SonicWALL, Inc.)	Security Appliance		May-10		
	(NSA) firewalls		,		
	Global VPN client	4.0.0	none	does not lock IPv6 stack when in use	
	Mobile Connect for	not initially supported			
	Android				
	Mobile Connect for iOS	not initially supported			
	SSL VPN	3.5	Feb-09	IPv6 features supported through the tunnel	
		SonicOS 5.8.1.0		Tr	
	series firewalls		Jun-11		
Econet.com, Inc. www.econet.com	Sentinel IPS series	unknown			
Enterasys Networks, Inc. www.enterasys.com	Enterasys IPS (also	?			
A Siemens Enterprise Communications	known as Dragon IPS)		Dec-10		
Company					
ESET North America www.eset.com	NOD32 Antivirus 4/5		2007		
(a.k.a. ESET spol. s r.o.)					
	Smart Security 4/5		2007		
	Cybersecurity for Mac		2010		
F-secure Inc. www.f-secure.com	Anti-Virus	7.1.2	Mar-09		

	I	T			
	Internet Security 2007			see above	
ForeScout Technologies, Inc.	CounterACT for	7.0 EA	Oct-12		
www.forescout.com	Endpoint Compliance				
	G + AGT C	7 0 F.A	0 + 12		
	CounterACT for	7.0 EA	Oct-12		
	Network Access				
	Control (NAC)	E 4:00.2.0	1 / 2002	4: : 6 11 1 46	
Fortinet, Inc. www.fortinet.com	FortiGate series	FortiOS 2.8	late 2003	antivirus firewall platforms	
	FortiGuard services FortiWeb Web		none	antivirus services A type of WAF	
	Application Security			A type of WAF	
	1000C		none		
FreeBSD.org www.freebsd.org	IPFW also known as			firewall for FreeBSD	
recost.org www.necost.org	IPFIREWALL			inewan for Freedsb	
	IP6FW			IPv6 firewall for FreeBSD	
Future Systems, Inc.	SecuwayGate 6000	FOS v3.0		ii vo iiicwaii ioi i iccibbb	
www.future.co.kr	Security Sale 0000	2 0 0 1 3.0	Sep-05		
F5 Networks, Inc. www.f5.com	big-IP Applications	TMOS 11.1		A type of WAF	
The state of the s	Security Manager		Dec-11		
	(ASM)				
GFI Software www.gfi.com	MailEssentials		Jun-08	anti-span, anti-virus email management	
iMPERVA Inc. www.imperva.com		Suite 9.0		A type of WAF. It runs only on A10 ACOS	
	*		Dec-11	systems	
Intellitatics, Inc. www.intellitatics.com	Intellitatics Advanced	unknown	. 2007		
	Analytics		since 2007		
	Intellitatics Security	unknown	since 2007		
	Manager (ISM)		Since 2007		
International Business Machines	Security Network	4.1			
www.ibm.com/us	Intrusion Prevention		Jul-10		
	System (IPS)				
Internet Security Systems, Inc. www.iss.net	BlackICE PC Protection				
	(formerly known as				
	Defender), BlackICE		none		
	Server, and the older				
	Agent	7		G G. C	
	ISS	7.x	?	Conflicting opinions about ISS IPv6 support have been received.	
	Proventio	20.15	Ives 2002	A signature-based Intrusion Detection System,	
	Proventia	20.13	June 2003,	but as of Nov 04, no signatures or ability to	
			limited largely to tunnels	report IPv6 provided	
	RealSecure Guard,	7.0	tuinicis	Intrusion Detection System	
	Network, Server	7.0	Jun-03	Initiasion Detection System	
IronBee www.ironbee.com	IronBee Web			A type of WAF	
(A Qualsys, Inc. company)	Application Firewall		none	Trippe of Will	
Juniper Networks (formerly Netscreen	IDP-50, -200, -600, -	GigaScreen		Intrusion Detection and Provention (IDP)	
Technologies) www.juniper.net	1100	3.500010011	mid 2006	systems (151)	
""".jumper.net			2000	~, ~	
	IDP Security Module	GigaScreen	mid 2006	use in ISG-2000	
	ISG-1000/2000	ScreenOS 5.4		IPv6, jumbo, & multicast on 5.4r2 fall 2006	
			Oct-06	no IPv6 on ISG-1000 until 6.0	
	NS-204/208	ScreenOS 5.0.0		IPv6 not officially supported after ScreenOS 5.4	
			Jun-05	January and the second	
	NS-25/50	none	See NS-204	See NS-204/208 comment	
	NS-500/500GPRS	ScreenOS 5.0.0	See NS-204	See NS-204/208 comment	

	I			T	
	NS-3x000, NS-5x00	ScreenOS 5.4 limited,		No "transparent mode," only "routing mode,"	
	2G/8G	support in 6.0	1Q2005 (8G	yet RIP is only routing protocol (no OSPFv3).	
			4Q2005)	Simultaneous support for multicast and jumbo	
				frames 5.4 in 4Q2006. Some IPv6 functions still	
	NS-5GT, NS-5GT ADSL	none			
	NS-5XT	ScreenOS 5.4	See NS-204	See NS-204/208 comment	
	Network and Security	2009 1R1	500115 201		
	Manger (NSM)				
	Secure Access (SA)	Junos Pulse (also			
	SA700, SA2000,	known as Network	est. late 2012		
	SA4000, SA6000 SSL	Connect)	est. late 2012		
	VPN				
	Secure Services	ScreenOS 5.4 limited,	0 . 0 .		
	Gateway (SSG)-5/20	support in 6.0	Oct-06		
	Security Threat				
	Response Manager		Oct-09		
	(STRM) series				
	SSG-140/5xx	ScreenOS 5.5 limited,	early 2007 for		
		support in 6.1	140, late 2007		
			for 5xx		
	virtual Gate Way	5.5		integrated firewall protection, intrusion	
	(vGW)			detection, compliance monitoring, security	
	(1011)		. 10	management, and antivirus protection for	
			Aug-12	Virtual Machines (VMs). Originally developed	
				by Altor Networks	
Kaspersky Lab ZAO usa.kaspersky.com	Anti-Virus		2010		
	Anti-Virus for Mac		2010		
	Internet Security		2010		
LogMeIn, Inc. LogMeIn.com	Hamachi	2.1.0.122 Windows		VPN client for Windows, Mac, and most	
		2.1.0.65 Mac	Aug-11	recently Linux	
	vpn.net	initial release		secure hosted VPN site	
			Aug-11		
McAfee, Inc www.McAfee.com	CyberGuard	6.1		Previously a CyberGuard WorldWide product,	
(formerly known as Network Associates, Inc.,	KS1000/1500		est. June 2004	now part of Firewall Enterprise	
now a subsidiary of Intel Corp.)					
	CyberGuard SL3200			Previously a CyberGuard WorldWide product,	
			?	now part of Firewall Enterprise	
	Deckton Firewell	2007		1	
	Desktop Firewall	2007			
	Email Gateway			Previously a Secure Computing product, an	
	(formerly IronMail)			email filter/firewall/encryptor	
	EnterCept family of	none			
	products				
	ePolicy Orchestrator	Jul-09		management component of current DoD Host	
	(ePO)		4.5	Based Security System (HBSS)	
	Firewall Enterprise	7.0.1.00		Previously a Secure Computing product. Cannot	
	(formerly Sidewinder	,	Dec-09	support IPv6 in High Availability configurations	
	G2)		Dec-09	support if vo in ringh Availability configurations	
			1 12		
	Foundstone	none	planned for	previously a Foundstone, Inc. product	
			2007		
	Foundstone Enterprise	May-07		previously a Foundstone, Inc. product	

	Ig. 4.				
	Gauntlet	none			
	Hercules Enterprise	none		previously a Citadel Security Software, Inc.	
	Vulnerability			product	
	Management Suite				
	Hercules Remediation	none		previously a Citadel Security Software, Inc.	
	Manager			product	
	Host Intrusion	V7 path level 9			
	Prevention System	, , pane sever	Jun-11		
	(HIPS)		Juli 11		
	` '	2007			
	internet security suite	2007			
	Network Security	Oct-08		Formerly IntruShield family of products.	
	Platform (NSP) family	000	5.1	Limited IPv6 capability with 4.1 in May 2007	
		limited by mayided			
		limited by provided		Formerly Endeavor Security product	
	Response (NTR)	signatures		Forms only Endogroup Consuits and Just	
	NTR Control Center	limited		Formerly Endeavor Security product	
	Network User Behavior			Also called Enterprise Manager	
	Analysis (UBA) Control				
	Center				
	Network UBA Monitor	2008		Previously a Securify Federal Operations	
	series	2008		product, later a Secure Computing product	
	PC Protection Plus	2007		product, later a Secure Computing product	
	re riotection rius	2007			
	Total Protection	2007			
	UTM Firewall (formerly				
	SnapGear)				
	VirusScan Plus	2007			
	VirusScan Enterprise	2007			
		2007		see above	
Metaneworks Technologies, Inc.	MTP-1G 1 Gigabit			non-blocking real time parallel hardware	
www.metanetworks.org	IDS/IPS		Nov, 2005	Intrusion Detection/Prevention System	
	MTP-10G 10 Gigabit			non-blocking real time parallel hardware	
	IDS/IPS		Nov, 2005	Intrusion Detection/Prevention System	
Microsoft Corporation www.microsoft.com		none		originally developed by Whale	
1	Gateway (IAG)			Communciations. Superceded by Forefront	
	(120)			UAG	
	Forefront Security for	SP1		requires Exchange Server 2007 SP1 or later	
	Exchange Server		Jul-09	200, 521 0. 1001	
			341-07		
	Forefront Threat	none		Product at end of development life cycle. No	
	Management Gateway	none		IPv6 functionality planned.	
	(TMG)			11 to fanctionality planned.	
	` '	limited support in SP1,		requires 64-bit Server 2008 or later. Product at	
	Access Gateway	support only when used with	Oct-11 SP1	end of development life cycle. No IPv6 functionality planned.	
	(UAG)	DirectAccess		runctionality planned.	
	Internet Cornection			refer to section 2.2 Windows VD autor	
	Internet Connection	Windows XP SP1/SP1a	Jul-03	refer to section 2.2 Windows XP entry	
	Firewall (ICF)	51 1/5F 1a			

	1	1		_	,
	Internet Security and	none		for windows 2000 Server through Windows	
	Acceleration (ISA)			2003 Server, but not Server 2008	
	Server Standard and				
	Enterprise				
	Proxy Server	none		Windows NT 4.0 application	
	Virtual PC/ Server	PC 2007		Earlier versions support IPv6, but not in	
		Server 2005 R2	Feb-07	Windows Vista or Windows Server 2008.	
			1 60-07	Superceded by XP mode built-in to Windows 7	
				Professional/Ultimate	
	Windows Firewall	Windows XP SP2		refer to section 2.2 Windows XP entry	
	Windows Live OneCare	1.5	Nov-06		
ModSecurity www.modsecurity.org	,	2.60		A type of WAF	
(a TrustWave SpiderLabs company) (formerly Breach Security)	Application Firewall		Jun-11		
Mu Dynamics www.mudynamics.com	Mu-4000 Security	all	. 06	Updates support USGv6 test profiles	
(formerly known as Mu Security)	Analysis Platform		Apr-06		
Mykonos Software www.mykonossoftware.com (A Juniper Networks company)	Mykonos Web Security		none	A type of WAF	
m0n0.ch/wall	m0n0wall firewall	1.3	Dec-09	FreeBSD based firewall appliance	
NGDN 1 G	G F GI	0.2		UDIT 1 ID 6 + 1 1	
NCP Network Communications Product	Secure Entry Client	9.3	Nov-11	VPN locks IPv6 stack when in use	
engineering, Inc. www.ncp-e.com NetCitadel LLC www.fwbuilder.org	Firewall Builder	3.0.4.794		GUI configuration manager for multiple	
			Apr-09	firewalls	
NetFilter www.netfilter.org	IPtables	1.3.8	Jun-07	Linux firewall	
	IP6tables	initial release		configure IPv6 rules in Iptables	
NetGear www.netgear.com	VPN Client software	none		does not lock IPv6 stack when in use	
NetScout Systems, Inc. www.netscout.com	Adaptive Session Intelligence (ASI)	initial release	Nov-10	real-time Deep Packet Analysis (DPA) engine	
	nGenius Service Assurance Solution		Oct-10		
Next Generation Security Software Ltd.	NGSSniff	none		Packet analysis	
Www.ngssoftware.com					
	NGSSquirreL series	none		Multi-vendor database security auditing	
	OraScan	none		Oracle database security auditing	
	Typhon III	none		Security audit and protection	
NFR Security www.nfr.com (A	Sentivist Intrusion	4.0 (and before)	mid-2002	IPv6 scanning capability expanded w/5.0.	
Check Point Software Technologies Ltd.	Prevention System (IPS)				
company)	ID2 ID5 ID5	capabilities)	mid-2006	D. I. ID.G. is Is a second control of	
Nokia www.nokia.com	IP3xx, IP5xx, IP7xx,	IPSO 3.6	. 2001	Based on IP Switching Operating (IPSO) system	
(A Check Point Software Technologies Ltd. company)	IP12xx		since 2001		
Norse Corporation www.norse-corp.com	IPViking eCommerce	initial release	2010	real-time IP address risk assessment	
	IPViking Enterprise (IPVE)	initial release	2010	real-time IP address threat assessment	
Nortel Networks Limited	Secure IP Services	none			
www.nortelnetworks.com	Gateways products				
Open Door Networks, Inc. www.opendoor.com	Doorstop X Firewall		2.0	Apple Macintosh OS X firewall	
	Contivity Multi-OS VPN client	none		does not lock IPv6 stack when in use	
Open Information Security Foundation www.openinfosecfoundation.org/	Suricata	initial release	Jul-10	open source multi-threaded IDS/IPS	built into Security Onion
			Page 18 of 40		

Open Vulnerability Assessment Scanner (VAS)	OpenVAS	3.0.0	Dec-09		
www.openvas.org			Dec-09		
Palo Alto Networks, Inc.	/ /	v 3.0	Jun-09	enterprise firewalls	
www.paloaltonetworks.com	4000 Firewalls		Juli-09		
Panda Security	AntiVirus		2010		
www.pandsecurity.com			2010		
	AntiVirus+Firewall		2010		
	ClientShield		2010		
	Internet Security		2010		
Purdue University	LiSt of Open Files		1 0/0	lists information about any open files. Supports	
ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/	(LSOF)		when O/S	most Linux distributions, several UNIX versions	
			supports IPv6		
RealVNC Ltd. www.realvnc.com	realVNC Enterprise	4.1.7	4 05	VPN locks IPv6 stack when in use	
	Edition		Aug-05		
	realVNC Personal	4.1.2	1 05	VPN locks IPv6 stack when in use	
	Edition		Jun-05		
Sguil sguil.sourceforge.net	Sguil	all		console to monitor network security and events	built into Security Onion
					, and the second
Solera Networks, Inc.	DeepSee DS-x150		. 2000	network traffic capture software	
www.soleranetworks.com	forensics software		since 2008	-	
Sophos Ltd. www.sophos.com	Client Firewall	1.5	Aug-11		
	Firewall	none			
Sourcefire, Inc. www.sourcefire.com	ClamAV	0.94	G 00	www.clamav.net. Open source	
(a Cisco Systems, Inc. company)			Sep-08	antivirus/antimalware software	
	Next Generation	initial release	B 44		
	Firewall (NGFW)		Dec-11		
	Next Generation	initial release			
	Intrusion Prevention		Feb-12		
	System (NGIPS)				
	SNORT	2.8.0 basic support	9/1/2007		built into Security Onion
		2.8.4 improved	4/8/2009		
	Sourcefire Secure	none	not		
	Socket Layer (SSL)		documented as		
	appliance		of Jun-10		
	Sourcefire 3D System	all models	Jun-11	commercial IPS/IDS descendant of SNORT	
Squert www.squertproject.org	Squert		all	query-driven viewer for Sguil database	built into Security Onion
SRI International, Inc. www.bothunter.net	BotHunter	all	u	network-based malware infection diagnosis	2 11 11 11 11 11 11 11 11 11 11 11 11 11
ora memuanan, me. www.souramer.mee	Bottiantor			system	
SRI International www.sri.com	Emerald net♦IDS			The Emerald tool suite IPv4 version is free to	Contact Jonathon Cory
ord international www.sii.com	Intrusion Detection			government organizations, and the IPv6 version	<pre><jonathon.cory@sri.com> (650)859-4121 for</jonathon.cory@sri.com></pre>
	System		Nov, 2005	may become so, awaiting market demand	more information.
	System			may become so, awarting market demand	more information.
StoneSoft Corp. www.stonesoft.com/us	StoneGate Firewall	5.2	Jun-10	VPN built-in. Improved support in 5.3	
Stonesoft Corp. www.stonesoft.com/us	StoneGate FIFWall StoneGate IPS	4.3	Jun-10 Jun-08	vi iv built-iii. Improved support iii 3.3	
	StoneGate Management		Juli-08		
	Center Center	٠.٥.٠	Jun-08		
	StoneGate SSL VPN	1.1.0	Mar-08		
Symantic Corporation	NetProwler		1VIa1-00		
	netriowiei	none			
www.symantec.com	Nantan 260	1	Ech 07		
	Norton 360	2007	Feb-07		
	Norton AntiVirus	2007	Feb-07	N. ID.	
	Norton AntiVirus			No IPv6 support	
	Corporate Edition	2007			
	Norton Internet Security	2007	Feb-07		

	N. (D. 1			NI ID (
	Norton Personal Firewall			No IPv6 support	
	Norton Utilities			No IPv6 support	
		none		The IT to support	
	Endpoint Protection	10110		Incompatible with IPv6. By default blocks all	
	(SEP) series			IPv6; canNOT configure to allow IPv6	
	SystemWorks			No IPv6 support	
TCPwrapper	TCPwrapper	7.6-ipv61		The II ve support	hints on its use at
ftp://ftp.porcupine.org/pub/security/index.html	T of wapper	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Jun-01		ftp://ftp.porcupine.org/pub/security/hints-and-tips.html
TechGuard Security, LLC www.techguard.com	PoliWall	Mxx and Gxx series	Nov-10	network security appliance	
The Firewall Tooklik www.fwtk.org	FTWK	none in mainline, Linux patches		previously known as the TIS Firewall toolkit	
TippingPoint Technologies, Inc. www.tippingpoint.com (an HP company)		initial release	Oct-10		
	Intrusion Prevention Systems (IPS)	210E/2500N/5100N series	Jan-09		
	Security Management Systems (SMS)		Jan-09		
Trend Micro Incorporated us.trendmicro.com	AntiVirus	none			
	AntiVirus with AntiSpyware	2007	Feb-07		
	(PC-cillin) Internet Security	2009	Feb-09		
	ScanMail for Exchange	10.0	Aug-10		
Third Brigade, Inc. www.thirdbrigade.com	Deep Security 4	none		host-based IPS	
Tripwire Inc. www.tripwire.com	Tripwire Enterprise	none	in 2012?	configuration assessment and auditing	
	Tripwire for Servers	none	see above	configuration assessment and auditing	
	vWire	none	see above	virtualization assessment and auditing	
Tufin Software Technologies Ltd. www.tufin.com	Tufin Security Suite	R12-3	Jun-12	security policy manager	
VeEX Inc. www.veex.com	MX, EX test equipment		Jan-11		
	Ethernet test equipment		Jan-11		
Vidder, Inc. www.vidder.com	application VPN	initial release	2005		
WebScurity, Inc. www.webscurity.com	webApp.secure		none	A type of WAF	
Zone Labs, Inc. www.zonelabs.com	ZoneAlarm, ZoneAlarm	8.0			
(A Check Point Software Technologies Ltd. company)	Pro		2008		

General Information about Network and Traffic Management and Testing Products: Both hardware and software that are used to manage, test, or control the configuration or performance characteristics (including load balancing and rate limiting) of a network infrastructure or computers attached to that network infrastructure are included in this category.

1.5 Information about specific Network and Traffic Management and Testing Products			Date First		
Manufacturer, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Supported	Comments or Additional Information	Related Web Site
	IPv6 Routing Emulation	E7885A		Both IPv4 and IPv6 emulation of many	
we.home.agilent.com	Software			protocols supported. Requires use of E37882a IPv4 software as well.	
	NOV 16 16 0 1	1.0		IF V4 SOITWAIC AS WEII.	
	N2X Multi-Service	1.0			
	tester				

Alcatel-Lucent Com.	Alcatel Webview	varies		network element manager for use with	
www.alcatel-lucent.com				OmniSwitch 7000 series hardware	
	Omnivista 2000 Net- work Management	varies		network management software for use with Alcatel OmniSwitch hardware	
Alert Logic, Inc. www.alertlogic.com	Log Manager		Feb-11		
	Threat Manager		Feb-11		
ArcSight Inc.	Enterprise Security	5.0		The version of IP used for communications	
www.arcsight.com	Manager (ESM)			should not have a significant effect on ESM	
	Network Configuration Manager (NCM)	4.1	May-07		
ASPath Tree http://carmen.ipv6.tilab.com/ipv6/tools/ASpath- tree	ASPath-Tree	4.2		BGP4+ path display tool	
BreakingPointSystems, Inc. www.breakingpointsystems.com (formerly www.breakingpointlabs.com)	BreakingPoint Elite	all	Jul-09	Simultaneous dual-stack IPv6/IPv4 device testing	
Brocade Communication Systems Inc (formerly Foundry Networks) www.brocade.com	IronView	3.0	since 2007	Support date depends on the module	
ByteSphere Technologies, LLC www.bytesphere.com	OidView SNMP MIB Browser	3.1	May-08		
	Jaguar SX	Community Edition	Jan-09	network fault monitoring system	
Cacti www.cacti.net	network performance graphing software		none		
Cheops-NG cheops-ng.sourceforge.net	Cheops next generation (Cheops-NG)	none		network mapping and monitoring tool	
Cisco Systems www.cisco.com	CiscoWorks	multiple modules	late 2004 (3.0) into 2005 (4.0)	Support date depends on the module. See the Related Web Site comment for 14xx/16xx/17xx routers in Section 1.1	
	Netflow	12.2 S	est. in 2005		
	Analyzer	5.0	Dec-05		
Codenomicon www.codenomicon.com	DEFENSICS		since 2006	network test tool	
	Test Suites		many since 2006	suite of protocol-by-protocol test tools	
Communication Devices International (CDI) Limited www.commdevices.co.uk	Distributed Database Manager (DDM)			IPv6 support planned but no definite date	
	Packet Generator		Jun-05		
Computer Associates International, Inc. www.ca.com	eHealth suite	6.2	Jul-11	Formerly a Concord Communicatoins, Inc. product. With limitations as documented by vendor	
	NetMaster Network Management for TCP/IP	11.6	Jan-09		
	SPECTRUM Infrastructure Manager	9.0.0.0.1	Dec-09		
	Fault Manager	8.1	2008		
	Unicenter Network Management Suite	7.x	Mar-03		
Cricket cricket.sourceforge.net	Cricket	1.0.4			
Dartware, LLC www.intermapper.com	InterMapper	5	May-08 Page 21 of 40		
<u> </u>			Page 21 0140		

	1	1	1	1	
Dell, Inc. www.dell.com	C	1.0.0		Out-of-band network management device for	
	Access Controller		Jan-09	Dell PowerEdge servers	
	(iDRAC 6) - Express &		Juli-07		
	Enterprise				
Defense Research and Engineering Network	Simple Packet			A simple translator that converts a file	
(DREN), ipv6-team@hpc.mil	Translator (SPT)		Nov, 2005	containing IPv4 packets into a file containing	
			1407, 2003	IPv6 packets. Useful in testing other IPv6	
				software.	
Easy-IP AS www.easy-ip.net	Easy-IP	6.0.1	Aug-11	IPAM software	
	Easy-IPv6	1.0	Jun-11	IPAM software	
EMC Corporation www.emc.com	LEGATO NetWorker	7.5	Dec-08		www.legato.com
	Ionix Management		Jan-08	previously System Management ARTS	
	Suite		Jan-08	Incorporated [SMARTS] In-charge	
	Navisphere		I 00		
	Management Suite		Jan-08		
Eracent Enterprise Asset Management	Enterprise AM	none		clientless Enterprise asset inventory and	
www.eracent.com				configuration assessment for IPv6 transition	
				planning	
EtherApe etherape.sourceforge.net	EtherApe	0.9.1	2007?	graphical network monitor	
Ethereal www.ethereal.com	Ethereal	0.9.16		multi-protocol analyzer, replaced by Wireshark	
			since 1999	in 2006	
EXFO Electro-Optical Engineering Inc.	FTB-8510B (up to 1	initial version		field-portable test equipment	
www.exfo.com	Gbit/s)		19-Nov-08	portuois test equipment	
	FTB-8510G (up to 10	initial version		field-portable test equipment	
	Gbit/s)	initial version	19-Nov-08	portuoio test equipment	
	IQS-8510B (up to 1			laboratory test modules	
	Gbit/s)		19-Nov-08	laboratory test modules	
	IQS-8510G (up to 10			laboratory test modules	
	Gbit/s)		19-Nov-08	laboratory test modules	
Flow-Tools www.splintered.net/sw/flow-tools/	flow-tools	none			
1 10W 10015 WWW.Spillitered.Hed 5W/110W 10015/	now tools	none			
Fluke Corporation	Networks OptiView III	5 3			
www.flukenetworks.com	Integrated Network	0.0	Oct-08		
	Analyzer		000		
Genie Network Resource	Genie Advanced Traffic	Δ 7			
Management(GenieNRM) Inc.	Mining (GenieATM)	7.7	Feb-07		
www.genienrm.com	immig (Gemeritivi)		1 60-07		
Gigamon, Inc. www.gigamon.com	GigaVUE-series			Switch which aggregates, replicates, filters and	
Giganion, inc. www.giganion.com	Giga v OL-scries		Oct-08	divides traffic flows	
	GigaSMART		Nov-10	Packet slicer	
Hewlett Packard Development Company		5.1	1107-10	1 acket sheer	
www.hp.com	Intelligent Management	5.1			
www.np.com	Center (IMC) series		Oct-11		
	Center (IIVIC) series				
	FlexManagement				
	ProCurve Manager Plus		Jan-09		
	(PCM+) series		Jan-07		
		6.4			
	Center (previously	0.1	Nov-03		
	OpenView)		1101-03		
IDEAL Industries Networks, Inc.	-	II		Active hand-held LAN tester	
		11	May-12	Active nanu-netu LAIV (CS(C)	
www.idealindustries.com (a division of IDEAL Industries, Inc.)	1		1v1ay-12		
International Business Machines	Tivoli NetView	53B		TCP/UPD bandwidth performance	similar to than but much later dayslamment
www.ibm.com/us	1 IVOII NELVIEW	JJD acc	Oct-07	_	similar to ttcp but much later development
www.ibiii.com/us			Page 22 of 40	measurement tool	
			. 5		

InterWorking Labs, Inc. www.iwl.com	Maxwell TCP/IP Test Environment	initial release	Dec-04		
	SilverCreek SNMPv3 test suite	7.3	Oct-03		
IPv6Suite ctieware.eng.monash.edu.au/twiki/bin/view/Sim ulation/IPv6Suite	IPv6Suite	1.1	Aug-01	IPv6 protocol and network simulator	caia.swin.edu.au/talks/040901A/040901A.pdf
ip6sic ip6sic.sourceforge.net	IPv6Suite			A tool for integrity checking an IPv6 stack implementation (open source)	
Infrastructure Solutions, Inc. www.isiisi.com	ISI-Snapshot	7.4	Aug-11	discover and inventory network-attached equipment	
IXIA www.ixiacom.com	IxCHARIOT	5.1		Now supports IPv6 multicast and QoS (formerly known as NetIQ Chariot)	
	IxANVL IPv6 test suite			Other products support traffic generation and topology emulation	
Kratos Defense & Security Solutions, Inc. www.kratosnetworks.com	dopplerVUE	2.2	Nov-10	small-to-medium business network management software	
	NeuralStar	9.7	Nov-10	enterprise network management software	
Lantronix, Inc. www.lantronix.com	ManageLinx	initial release	Sep-10	Remote Access of Firewall Protected	
	SecureLinx SpiderDuo	initial release	Sep-10	Remote-KVM with Local Access	
Laurent Constantin www.laurentconstantin.com/en/netw/netwox	NetWOX Network Toolbox		Jan-04	utility scripts to test for may IPv6 vulnerabilities, including firewall rule enforcement	www.net-security.org/dl/articles/sendip6.pdf Also www.linuxsecurity.com/content/view/117356/4 9/
Lumeta Corporation www.lumeta.com	IPSonar		Jul-04	wide-area and local-area network topology mapping and discovery toolsest	
	MapViewer		Jul-04	viewer for IPSonar maps	
MCI, Inc. (now Verizon Business)	Customer Network	yes. First version		only available to users of the MCI very high	
www.mci.com	Information Console	unknown		performance Backbone Network Service	
	(CNIC)			(vBNS+) network	
Metasploit Project www.metasploit com	Metasploit Foundation	2.0	2004 (?)	packaged exploit test suite	
Monolith Technology Holdings, LLC www.monolith-software.com	Event Manager Suite		Jan-10	unified infrastructure management software	
	Metric Manager		Jan-10		
Multi Router Looking Glass	MRLG/Perl scripts	multiple versions	before 2002	IPv6 support on systems supporting IPv6	wiki.version6.net/LG
	MRLG/PHP	multiple versions	late 2003	IPv6 support on systems supporting IPv6	freshmeat.net/projects/mrlg4php/
Multi Router Traffic Grapher (MRTG) mrtg.hdl.com	MRTG tool	2.10.13			
Nagios Network Monitor www.nagios.org	Nagios (previously known as NetSaint)	1.2 with 1.4 plugin module	Mar-03	Use thewith-ipv6 command line option to configure IPv6 support	
National Laboratory for Applied Network	Active Measurement				watt.nlanr.net
Research (NLANR) www.nlanr.net	Program (AMP)				sd.wareonearth.com/woe/amp.htm
Naval Research Laboratory - District of	MGEN			Traffic generator and analysis tool for both	
Columbia mgen.pf.itd.nrl.navy.mil				IPv4 and IPv6 (open source)	
Naval Research Laboratory - District of	NETwork TestIng and	0.5		Network environment simulator	
Columbia nettion.pf.itd.nrl.navy.mil	Operational eNvironment		2004 (?)		
netForensics, Inc. www.netforensics.com	Cinxi One	none		combined SIM and log management	
	Security Information Management (SIM) One	none			
Netgear, Inc. www.netgear.com	NMS200 ProSafe Network Management System	initial release	Sep-10		

	ı		1		
NET-SNMP www.net-snmp.org	net-snmp (previously known as ucd-snmp)	5.0.6	2002 in Japan -	-	
	known as ucu-simp)		later in U.S.		
NDPMon ndpmon.sf.net	Neighbor Discover Protocol Monitor	base version	mid-2006	NDP monitor is similar to ArpWatch for IPv4. open source software	
NetIQ Corporation www.netiq.com	NetIQ network management solutions	none			
	NetIQ Vulnerability Manager	none		formerly known as VigilEnt Security Manager	
NfDump sourceforge.net/projects/nfdump/	NfDump	unknown	since 2006		
	NfSen	unknown	since 2006		
NIKSUN Incorporated www.niksun.com	NetVCR 2005		2005	Traffic recorder and analysis tool	
nttcp sd.wareonearth.com/~phil/net/ttcp/	New ttcp (nttcp)	1.47	Sep-02		ttcp and nuttcp also referenced
NTOP www.ntop.org	NTOP	3.0	May-04		
Objective Systems Integrators, Inc.	NETeXPERT Virtual	planned for 6.3			
www.osi.com (formerly an Agilent product)	Service Manager (VSM)		est. 1Q2010		
OpenBSD Packet Filter	IPFILTER (IPF)	4.8		firewall for FreeBSD, NetBSD, OpenBSD, SunOS, HP/UX, and Solaris. In OpenBSD 5.1, the pf will support NAT64	
	Packet Filter (PF)	since OpenBSD 2.7		A network tool with analysis, firewall and NAT capabilities. Also in FreeBSD	
OpenNMS www.opennms.org	Open Network Management Software		June 2011 (mostly)		www.opennms.org/wiki/IPv6_Support gives details of IPv6 support
OPNET Technologies, Inc. www.opnet.com	IT Guru Network Planner	11.0	May-05	IT and Service Provider (SP) versions similar except SP version can model MPLS networks	
	IPv6 Planning and Operations module for Guru Network Planner	initial release	Sep-07	add-on to Guru Network Planner products	
	Modeler	10.5	May-04	The DISA Network Warfare Simulator (NETWARS) uses OPNET Modeler	www.disa.mil/main/prodsol/netwars/index.html and www.opnet.com/products/library/netwars_mod els.html
	Netmapper	initial release	May-09		
	SP Guru Network Planner	11.0	May-05	IT and Service Provider (SP) versions similar except SP version can model MPLS networks	
Packet Capture Library (Pcap)	PCAP dll	4	Feb-07	generic name for library used for packet capture and analysis, Linux/UNIX PCAP, WinPcap, et cetera	www.winpcap.org
PWI, Inc. www.privacyware.com	PrivateFirewall	7.0	Jun-11		
	ThreatSentry	4.0	unknown	IIS Web Application Firewall	
QoSient, LLC www.qosient.com	Argus	3.0	Dec-07	A real time distributed non-blocking flow monitor	
	Gargoyle	under active development	Dec 2007 (est)	Contact carter@quosient.com for information on IPv6 capabilities	
RANCID www.shrubbery.net/rancid	RANCID	2.3.1		remote router configuration management	
Round Robin Database tool	RRDTool			IPv6 supported if the version of MRTG used	
people.ee.ethz.ch/~oetiker/webtools/rrdtool				supports it	
Saint Corp. www.saintcorporation.com	Security Auditor's Integrated Network Tool (SAINT)	5.7.2 limited support	Mar-05	a commercial descendant of SATAN	
	[-:01(011111)		Page 24 of 40		

	webSAINT	I	1	C	
	**	1.0		for individual rather than corporate use	1 11: 4 9 2 2 0 2
Scapy www.secdev.org/projects/scapy	Scapy	1.0	Aug-05	multi-purpose packet manipulation and analysis tool written in Python	built into Security Onion
	Secure64 DNS				
	Authority, Cache, Server		May-09		
	ETM System product suite	none			
	ETM Voice Firewall, ETMAudit, ETMView	none		Perviously known as TeleWall, TeleAudit, TeleView	
	SendIP	1.2	Nov-00	open source software to generate arbitrary IP packets	
	diversifEye			Integrated network, application and security	
www.shenick.com	, and the second		Dec-07	attack emulation and performance assurance test system	
	servicEye		Dec-07	Network, application and security attack test monitoring system	
5	Denika Performance Trender	4.0	Nov-03	IPv6 supported if the version of MRTG used supports it	
	Address Manager	3.0	June 2011 (mostly)		
	Netflow Traffic Analyzer	support promised "real soon now"			
	Network Configuration Manager (NCM)	6.1	Jan-11		
	Orion Network Performance Monitor (NPM)	10.2	Nov-11		
	Avalanche suite of test result reporting software	7.0	May-05		
	AX4000, Smartbits, Test Center suites of test software		Oct-03	Tests wide variety of conformance/ capability features of IPv6 communications devices	
	Mobility 2500 Performance Tester		Oct-03		
	ThreatEx suite of network attack test software		Nov-05		
	COBIA Unified Network Platform (UNP)		planned. No date	opensource security management framework	
	Safe Access		Nov-10		
	Strata Guard		planned. No date		
	Vulnerability Management System (VAM)		planned. No date		
Symantec Corporate www.symantec.com	Intruder Alert (ITA)	none			
	NetRecon	none			
	Network Security 7100		limited		

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	www.dopplerVUE.com	dopplerVUE	all	2008		
TCPdump	www.tcpdump.org	TCPDump	most do if enabled		network packet analysis tool for Unix/Linux,	
			when built		using libpcap	
		WINDump			corresponding tool for Microsoft Windows	win6.jp/WinDump/index.html
Testing Technologic www.testingtech.co		Ttworkbench	TTsuite-IPv6	Sep-08		
The Icinga Project	www.icinga.org	Icinga	1.3.0	Feb-11	a later fork of the Nagios Network Monitor	
WireShark		wireshark	0.99.1 and later	Jul-06	multi-protocol analyzer, successor to Ethereal in	
www.wireshark.org				(estimated)	2006	
Zenoss, Inc.	www.zenoss.com	Zenoss Enterprise		Aug-11		
ZyXEL Communica	ations Corp.	P660HN Series	initial release	Jan-11		
www.us.zyxel.com		ADSL2+ gateways		Jan-11		
		VSG Series VDSL2 combo-WAN gateways	initial release	Jan-11		
		ZyWall-200	initial release	Sep-04	Discontinued. ZyXEL later products support IPv6	

General Information about Authentication Services Products: The protocols used to provide authentication services (for example, Remote Access Dial-In User Service [RADIUS], terminal access controller access control system [TACACS] and the newer [incompatible] TACACS+, and Kerberos) are often updated to include IPv6 support months or years before products implementing the updated standards become available. Public Key Infrastructure [PKI] products are no exception to this trend, but there are multiple academic and limited commercial IPv6-capable implementations of various tools that use PKI (typically in of European origin), though they are not yet mature enough to reliably interoperate.

1.6 Information about specific Authentication Services Products		Date First			
Manufacturer, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Supported	Comments or Additional Information	Related Web Site
Alcatel-Lucent Technologies www.alcatel-	NavisRadius	none			
lucent.com	Authentication Server				
Cisco Systems www.cisco.com	Secure Access Control Server (ACS)	12.3(2)T	2001		
IEA Software www.iea-software.com	RadiusNT	none			
Interlink Networks www.interlinknetworks.com	RAD-series	none			
Juniper Networks www.juniper.net/welcome_funk.html	Odessy Access Client	none		previously a Funk Software, Inc. product	
	Steel-belted RADIUS (SBR)	5.0 Carrier 7.0	Mar-05 Sep-08	previously a Funk Software, Inc. product	
OpenLDAP www.openldap.org	slapd	2.0.0			
OpenSSh www.openssh.org	OpenSSh client and server	3.6.1p2	2000	Only when installed on a system that supports IPv6	
Masschusetts Institute of Technology (MIT) web.mit.edu/kerberos/www/	Kerberos Key Distribution Center (KDC) and application servers	1.2.7		Limited but useful support in the KDC and application servers (see section 2.5 for client information)	
	Kerberos	1.3		After modifications by the HPCMP including hardware preauthentication, KDC and application servers support IPv6	https://www.hpcmo.hpc.mil/security/kerberos/
RSA Security www.rsasecurity.com (The Security Division of EMC, Inc.)	Authentication Manager (formerly known as the Access Control & Encryption (ACE) server)	none		under discussion internally, IPv6 support date not established	
SSh www.ssh.com	Tectica products	2.x	Page 26 of 40	Pre-commercial 1.x products supported IPv6, and SSh has since then	

The FreeRADIUS Project www.freeradius.org	FreeRADIUS	0.8.1 2.0.0 and later 2.1.9	2007 2010	If For Red Hat Linux use freeradius 2 RPM vice	clients- ipv4 and clients = clients-ipv6 both needed
Winsend winsend.sourceforge.net/	Winsend library	initial release			www.hpi.uni- potsdam.de/fileadmin/hpi/FG_ITS/papers/Trust _and_Security_Engineering/2012_Rafiee_ICO IN.pdf

General Information about all kinds of Computers and Network Adapters (including Personal Digital Assistant [PDA], handheld, laptop, desktop, storage, servers, high performance computing [HPC], and visualization computers): Commercial computers in use today support IPv6 at the hardware level. IPv6 limitations arise from one piece of hardware (the network adapter or network interface card [NIC]), and the operating system and network driver (if separately supplied by the network adapter vendor). Support for Ethernet bonding (also known as NIC teaming) is an examaple of one of the few remaining areas where IPv6 support is currently lagging. For systems with an embedded network adapter, either wired or wireless (such as a PDA, laptop, or IP-capable cell phone) it can sometimes be hard to distinguish between the adapter and the system. It is generally the case that the operating system and network driver is more important than the network adapter in determining whether IPv6 is supported. Operating systems are discussed in section 2.2.

2.1 Information about specific C	2.1 Information about specific Computers and Network Adapters		Date First		
Manufacturer, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Supported	Comments or Additional Information	Related Web Site
Apple Computers (Macintosh) www.apple.com				Any Macintosh that will run OS X with an Ethernet adapter made after 1999.	
Asynchronous Transfer Mode (ATM) adapters, any speed	Most support IPv6 encapsulated over ATM			The network driver as well as the network adapter must support IPv6, particularly if the network adapter vendor provides the driver.	
Ethernet adapters that support only 10 Mbits/sec and were made during or before 1998	various			IPv6 support not generally predictable. Research and replace if it is not certain that IPv6 is supported.	
Ethernet adapters that support 10/100 Mbits/sec (or greater) or were made after 1998	various			Almost all support IPv6. Exceptions and limitations of OS specific drivers as noted in the following section.	
Fiber Distributed Data Interface (FDDI)				This is generally older technology, and the device drivers can cause problems.	
Fibrechannel (or fiberchannel)	Most support IPv6 over fibrechannel			The IETF standards for IPv6 support over fibrechannel were finalized in Apr 2004, so only drivers after that date will have IPv6 support	
IEEE 1394 (firewire) adapters	Most support IPv6			RFC3146 finalized 2001, so drivers much before that date unlikely to support IPv6	
High-Performance Parallel Interface (HiPPI)				This is generally older technology, and if supported the device drivers can cause	
InfiniBand Architecture	Internet Protocol over Infiniband (IPoIB)			IPv6 support is included in the standards, but need not be implemented by vendors	
network attached storage (NAS) or direct attached storage (DAS)				These devices are most frequently used within an installation, so wide-area IPv6 communication is not an issue	
Nokia www.nokia.com (a Check Point Software Technologies Ltd. company)	9210, 9210i PDA	none		(uses Symbian OS Series 60)	
	9300, 9500 PDA	Feb-04		tri-band cell phones with built-in camera (9500) (uses Symbian OS v7.0)	
storage attached network (SAN)				IPv6 support depends on the vendor, no general trends are apparent	

Synchronous Optical NETwork/Synchronous	Most support IPv6		RFC3572 finalized 2003, so drivers much	
Digital Hierarchy (SONET/SDH)			before that date unlikely to support IPv6. Layer	
			2 generally does fine, but short packets may be a	
			problem in some drivers	

General Information about Operating Systems, Queuing Systems, and Utility Software: As of 2005, most commercial and open-source operating systems provide basic IPv6 support -- see comments for specific products below. Support for mobility, security (IPSec, IKE or IKEv2, and other security features), and autoconfiguration (dynamic DNS and DHCPv6) may still be limited, as noted below.

2.2 Information about specific Operating Systems, Queuing Systems, and Utility Software					
Manufacturer, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Date First Supported	Comments or Additional Information	Related Web Site
Accelerated Technology	Nucleus IPv6	1.2	Nov-04		
www.acceleratedtechnology.com					
	Nucleus RTOS				
Altair Engineering, Inc www.altair.com	Portable Batch System (PBS) Pro and Open PBS	none	expected in 2008, not delivered	formerly Veridian PBS	www.pbspro.com
Apple Computers (Macintosh) www.apple.com	ios	initial release. On by default. Cannot be disabled in iOS 4	Jan-08	Used by iPod, iPhone, iPad devices. DHCPv6 in iOS 4. iOS 4.2 may not fallback from IPv6 to IPv4 correctly. WiFi-only MIPv6 until LTE added in 6.0. Supports privacy addressing by default	
	OS 9.x	none			
	OS X	10.1 or later. On by default in 10.2. 10.3 or later too strongly preferred IPv6. Fixed in 10.6.5	2002	10.3 and later has relatively mature IPSec support. No DHCPv6 until 10.7. Privacy addressing on by default in 10.7. In IPv6-only environments, DNS CNAME processing fails. Behavior of Java and 6to4 discouraged IPv6 use in versions prior to 10.6.5	
Atempo www.atempo.com	TIMEnavigator	none			
Berkeley Software Distribution UNIX (BSD UNIX) www.bsd.org	various distributions, such as FreeBSD, OpenBSD, NetBSD, et cetera	FreeBSD 2.7, NetBSD 1.5, OpenBSD 2.7, BSD/OS 4.0	varies with the distribution, as early as 1998	too numerous to mention, but KAME project www.kame.net is worth mentioning since it supports some other versions/varities of BSD UNIX	
(formerly known as Research In Motion (RIM) Ltd.)	Blackberry	10	Mar-13		
Cray Computers, Inc. www.cray.com	Linux on XD1	built into Linux			
	MTA-2	MTX (derived from BSD4.4)		The front end subsystem can be configured to support IPv6	
	UNICOS on X-MP, Y-MP, C-90, T-90, J-90	none		IPv6 support announced but never released	
	UNICOS on SV1, SV1ex,T3E,T3E-l200	none		IPv6 support announced but never released	
	UNICOS on X1, X1E	mp 3.0.30 with CNS 1.4	4Q 2005, by request only	limited support (no IPSec, for example) The Cray Network Subsystem (CNS) can also be configured to provide some support.	
	UNICOS/Ic on XMT, XT3, XT4	1.3.0	4Q 2005, by request only	limited support	
	UNICOS/ls on XT3	1.3.0	4Q 2005, by request only	limited suport	
Google, Inc. www.google.com	Chrome OS	initial release	Jul-09 Page 28 of 40		

Hewlett Packard Development Company	AlphaServer SC	none			h18002.www1.hp.com/alphaserver/sc/
www.hp.com	Inpliasor ver se	none			in 10002. www.inp.com/aiphaserven/se/
	Compaq Tru64 (formerly DIGITAL EQUIPMENT CORP)	5.1B limited support	early 2001	5.2 has better IPv6 support	h10026.www1.hp.com/netipv6/Ipv6.htm
	HP-UX	11i (sometimes known as 11.11). On by default beginning with 11iV2	Aug-01	Generally useful. IPSec supported but does not interoperate with other vendors yet (also needs Transport Optional Upgrade Release (TOUR) 2.0)	h10026.www1.hp.com/netipv6/Ipv6.htm
	NonStop	Release Version Update (RVU) G06.20	Jun-03	Also needs TCP/IPv6 1.0 or later. IPSec support early in 2005	h10026.www1.hp.com/netipv6/Ipv6.htm
	OpenVMS	5.1. On by default beginning with 8.3	Jun-01	Also needs TCP/IP services 5.1 or later. No firm date for IPSec support	h10026.www1.hp.com/netipv6/Ipv6.htm
	OpenView Omniback II	planned, none yet			www.openview.hp.com
	Palm OS 6.1 (Cobalt)	6.1	2005	Individual manufactures may not enable support on their platform	formerly Palmsource, Inc.
	WebOS	initial release		enabled by default	formerly Palmsource, Inc.
International Business Machines www.ibm.com/us	Application System/400 (AS/400) or OS/400	later called the I Series (i5/OS)	Jun-02	On by default. Expanded support in V5R4	
	AIX	4.3. On by default beginning with 4.6	late 1996	1997 first IPSec support, progressive expansion of support	www-306.ibm.com/software/os/zseries/ipv6/
	Hardware Performance Monitor (HPM) Toolkit	none		AIX 4.3.3 with the <i>PMAPI</i> kernel extension loaded, or AIX 5.1 with the <i>bos.pmapi</i> loaded	www.alphaworks.ibm.com/tech/hpmtoolkit
	LoadLeveler	none		See comments for PSSP below	
	MVS)	(obsolete as of 2004)	May-00	required additional packages to support IPv6	
	Parallel System Support Program (PSSP)	none		IPv4 addresses (only) must be retained internally on any SP-attached or clustered system. AIX supports IPv6 for external communications	
	Tivoli Storage Manager	5.1	Apr-03	IPv6 supported when run under AIX	1.4
	z/OS (replaced OS/390)	1R4.0 (obsolete as of March, 2007). On by default	Sep-02		In OS/390 was supported in V2R6 eNCS
Jungo, Ltd. www.jungo.com (an NDS Group, Ltd. company)	OpenRG	6	May-12	Residential gateway firmware	
Linux-derived open-source systems www.linux.org/dist, including the following (to name just a few):		The Linux kernel had support starting with 2.1.8, but 2.4.8 preferred minimum. On by default beginning in 2.6	1996	any recent distribution provides relatively good support of most IPv6 features, not necessarily including security or multicast routing. Starting with kernels released after Nov 2008 (2.6.27 or later), Linux supports ICMPv6, DHCPv6, MIB support and IPSec	
	Debian GNU-based	1.2.9			people.debian.org/~csmall/ipv6/
	Fedora-based	Core 1		IPv6 resolvers weak	fedora.redhat.com
	Gentoo-based	2.4			www.gentoo.org/doc/en/ipv6.xml
	Mandriva-based(was Mandrake)	8.0			www.mandrivaliniux.com/en/community
	Red Hat Desktop,Enterprise WS	3.0		IPv6 sockets not supported. NFS via IPv6 not supported until 6.0	www.redhat.com/rhel/desktop

	Red Hat Enterprise	5.2		On some platforms, configuring both IPv6 and jumbo packets causes system hangs	www.redhat.com/rhel/
	Slackware-based	7			www.slackware.com
	SuSE/Novell-based	7.1			www.suse.com
	Ubuntu-based	2.6.8			www.ubuntu.com
Microsoft Corporation www.microsoft.com	Windows 95, 98, ME, NT4	none		Limited support available via third party addons, multiple (now outdated) sources	for Windows 95/98/Me, www.trumpet.com.au/ipv6.htm For windows NT4, MSRIPv6 1.4 research.microsoft.com/msripv6/msripv6.htm
	Windows 2000	SP4 with technology preview (tpipv6- 001205)	2001	Limited support, hard to install, not production quality. Useful only for tests and educational purposes. Results unstable	msdn.microsoft.com/downloads/sdks/platform/t pipv6.asp, and read the FAQ (which describes how to install under SP4). May no longer be available from Microsoft. Contact ipv6- team@hpc.mil for a copy
	Windows Home Server (WHS), WHS Power Pack 1 (PP1)	base version	WHS 2007, WHS PP1 2008	Built on Windows .NET Server 2003 SP2 codebase. IPv6 is off by default	
	Windows Mobile CE .NET also known as (aka) Compact Edition (CE) later named Embedded CE aka Embedded Compact 7	4.1	mid 2003	VPN and IPSec/L2TP added in 4.2. MIPv6 in 6. Other flavors of Embedded include Handheld 7 and Standard 7	
	Windows Phone	7 initial release	2010		
		8 initial release	2012		
	Windows Pocket PC 2000 aka Windows Mobile (5.2 and later) aka Windows Phone (6.5 and later)	2003	late 2003		
	Windows Server 2008 (formerly Long-horn) DataCenter, Enterprise and Standard (all w/ and w/o Hyper-V), Hyper-V Server (x64 only), and Web Server 2008	base version	Mar-08	see comments for Windows Vista	
	Windows Server 2008 R2 (x64 only by default, configurable as 32-bit)	base version	during 2010	Clustering uses IPv6 for internal communications. Lacks mobile IPv6 support	
	Windows Server 2012	base version	Sep-12	See above. Now with IPAM built-in	
	Windows Vista Embedded, Starter, Home Basic, Home Premium, Business, Ultimate, Enterprise (x64 and x86)	base version	commercial Nov 2006, consumer Jan 2007	IPv6 on by default. Teredo for Active Directory clients, ISATAP and 6to4 tunneling on by default. Can function in an IPv6-only environment (a first for Windows). Virtualization only in Enterprise and Ultimate. Generally better IPSec support. Lacks mobility support	

	Embedded, Home, Media Center Edition 2005, Professional, Professional x64, Tablet PC Windows 2000 Server, Advanced Server,	SP1/1a with Internet Connection Firewall (ICF) and Advanced Networking Package (ANP), or SP2/3 and Windows Firewall (WF)	Jul-03	Limited support. No DHCPv6. DNS via IPv4 only. ICF does not support IPv6 unless ANP is installed (and only then does it filter IPv6 packets). WF does filter IPv6 packets. No support for jumbo packets. Limited IPSec support (no IKE nor encryption, for example). IPSec implementation does not interoperate with other vendors well. Tunneling not easily turned off. Only supports correspondent node mobility	DHCPv6 can be added using dibbler. Additional information at technet.microsoft.com/en-us/network/bb530961.aspx
	Basic, Starter, Home Premium, Professional, Ultimate, Enterprise (x64 and x86), Slate	base version	Jul-09	IPv6 on by default. Teredo for Active Directory clients, ISATAP and 6to4 tunneling on by default. Can function in an IPv6 native environment (like Vista). XP Mode only in Enterprise and Ultimate. Lacks mobility support	
	Windows 8 RT, 8, 8 Pro, 8 Enterprise	base version	Oct-12	See above	
	Windows.NET Server 2003 Enterprise, Enterprise x64, Datacenter, Datacenter	base version with ICF and ANP, or Basic Firewall (in Routing and Remote Access). SP1 replaces ICF with Windows Firewall (WF)		IPv6 is installed by default, but not enabled on any interfaces. Dynamic DNS also on by default (not always desirable). IPv6 jumbogram support very limited. In base version, ICF with ANP and Basic Firewall do not filter IPv6 packets. In SP1, Windows Firewall does filter IPv6 packets and blocks all by default. Internet Key Exchange (IKE) and Encapsulating Security Payload (ESP) headers with encryption for IPSec not supported. Only supports correspondent node mobility	ologies/ipv6/default.mspx also see www.microsoft.com/technet/prodtechnol/wind owsserver2003/technologies/security/ws03mng
MontaVista Software, Inc.	Carrier Grade	5.0			
	Mobilinux	5.0		supports Freescale Semiconductor, Intel, Texas Instruments, Open Handset Alliance Android, and others	
Novell Inc. www.novell.com	Netware	6.1	mid-2001	Enables IPv6 support for most software that uses Netware Loadable Modules (NLM)	
	server virtualization support for Linux		Jun-06	Supports IPv6 on multiple virtual server images running under Linux. Supports multicast and multi-MAC servers.	
Open Handset Alliance www.openhandsetalliance.com (previously Google, Inc.)		IPv6 in initial release. Stable support in 2.2. 4.0 supports privacy addressing by default.	Nov-07	When embedded in commercial products (like tablets) IPv6 support is usually disabled. Such products will support IPv6 with a rebuilt ("rooted") kernel. When embedded in smartphones IPv6 support may be enabled Limitations: No support for IPv6 addresses as literal URLs per RFC 2732. No DHCPv6 Supported only over WiFi interface until 4.0. 4.0 won't function in an IPv6-only environment over WiFi interface.	

0 117	lo 1/2	0.615		1 1 1 D 1 1 C (1/DC)	
OpenVZ	OpenVZ	2.6.15	Jun-06	creates Virtual Private Server (VPS)	
www.openvz.org	- 4			environments in Linux	
Palmsource, Inc. www.palmsource.com	Palm OS 5, Garnet	none			
	Palm OS 6.1 (Cobalt)	6.1	2005	Individual manufactures may not enable support on their platform	
Platform Computing Inc. www.platform.com (an IBM company)	Load Sharing Facility (LSF), LSF HPC	7.0	Nov-06		
A - 27	File Transfer Agent (FTA)	unknown			
QNX Software Systems Ltd www.qnx.com		6.3.2			
(a subsidiary of Blackberry Ltd.)			Jun-08		
Qualcomm, Inc. www.qualcomm.com/brew	· ·	3.1.5		Later versions have better support for IPv6	
	Environment for		May-06		
	Wireless (BREW)				
Silicon Graphics, Inc. www.sgi.com	OpenGL VizServer	none			
	IRIX	6.5.19 or later		beta version in 6.5.13f, no IPSec	
Storage Technology Corporation	Application Storage	none		No direct support for IPv6. Client systems	
www.storagetek.com	Manager (ASM),			accessing an ACSLS Manager tape library may support IPv6.	
	Automated Cartridge	none		No direct support for IPv6. Client systems	
	System Library			accessing an ACSLS Manager tape library may	
	Software (ACSLS)			support IPv6.	
	Manager			support if vo.	
	SANtricity Software	none			
	Suite	none			
	Virtual Transport Manager (VTM)	none			
Sun Microsystems	Java Software Standard	1.4.2 Solaris, Linux;		version 1.5 provides improved IPv6 support for	java.sun.com
www.oracle.com/us/sun/index.html	Edition Development	1.5 for Windows XP		Solaris, Linux	
(an Oracle Corporation company)	Kit	SP1 and later			
1 1 2/	Solaris	On by default		Solaris 10 supports both IPSec and IKE	
	2 2 - 41 - 12	beginning with 8.7			
		and later includes	2000		
		limited IPSec			
Symbian Ltd. www.symbian.com	Series 60	OS v6.x	none		
Symbian Etc. www.symbian.com	Series 80	OS v7.x and following		IDC as also summented	
	Series 80	OS V/.x and following	Mar-03	IPSec also supported	
The Globus Alliance www.globus.org	Globus Toolkit	3.2.1		software to support grid computing across wide area networks	www.cs.ucl.ac.uk/staff/sjiang/webpage/How-to-IPv6- in-GT4.htm
	XIO library	any version (but not the older IO library)			
	GRAM library	3.2 and later			
Tizen Project, a Linux Foundation Project	Tizen	2.0	Sep-12		
www.tizen.org	Clarator Com 1	.1			
VERITAS Software Corporateion www.veritas.com	related products	planned in version 5.0	2006Q1		
	NetBackup and related products	5.1		The client can communicate with the server via either IPv4 or IPv6	
	Volume Manager			Does not depend on IP - either will work	
VMware, Inc. www.vmware.com	vSphere Hypervisor ESX, ESXi	4.0	May-09	disabled by default	
Wind River www.windriver.com	,	6.0	Feb-04	Individual manufactures may not enable support	
			- •••	on their platform	

General Information about Wide-Area Service Software: This section contains information about software that implements a protocol or service such as Web, FTP, TFTP, file, NFS, data bases, or print services for remote client software. Similar software that is sold bundled with hardware is listed in Section 1.2 above.

NOTE: See the Note in the header of Section 1.2 above regarding proxy servers and Application Delivery Controllers (ADC).

2.3 In	formation about specific	Wide-Area Service Sof	ftware	D (E' (
Manufacturer, V	endor or Developer	Make, Model, or Series	First Version with IPv6 support	Date First Supported	Comments or Additional Information	Related Web Site
Apache Jakarta Project		Java Serverlet HTTP	5.0			
jakarta.apache.org		Server				
Apache Software Foun	dation www.apache.org	HTTP Server	1.3.6 with patches, 2.0.14 built in, 2.0.51 Windows support		There are problems for web pages built with pre- 5.0.0 PHP and 2.0.x, virtual hosts on IPv6 addresses are broken in versions until 2.0.28, 2.0.43 or later recommended due to vulnerabilities in earlier versions	
		mod_proxy and related modules	tracks HTTP server support since 2.0		Reverse proxy server	
		Traffic Server	2.0.0 3.2 full support	May-10 Jun-12	Originally developed by Yahoo! Inc.	
Apple, Inc. www.apple	e.com/mac/facetime/	FaceTime	none		Not supported	
Asterisk (a Digium, Inc. sponso	www.asterisk.org red company)	Scalable Communications Framework (SCF)	1.8	Oct-10	telephony/audio/RTP/SIP server	
Blackberry, Inc.	us.blackberry.com	Blackberry Enterprise Server	at least through v5.0		Won't work when installed on IPv6-enabled computer	
Cisco www.cisco.com/en/US tml	/products/ps7060/index.h	TelePresence		Feb-12		
Ekiga	www.ekiga.org	Ekiga Softphone	3.2	Feb-11		
		Ekiga Video Conferencing (formerly known as Gnomemeeting)			any version using IPv6-capable openH323	
Google wv	ww.google.com/talk	Google Talk	uncertain		some configuratoins support IPv6-only (only) connections	
Green Hills Software, I www.ghs.com	Inc.	INTEGRITY RTOS with IPLITE	178B	Nov-04	embedded IP protocol stack software. IPSec also available	
		INTEGRITY RTOS with IPNET	178B	Nov-04	embedded IP protocol stack software	
Icecast www.icecast.org		Icecast	1.3.12	2003		
International Business www.ibm.com/us	Machines	DB2 Universal Database (UDB, nee DB2)	9	Jun-06		www- 128.ibm.com/developerworks/db2/library/techa rticle/dm- 0606ahuja2/index.html
		DB2 Express-C	none		free version for Linux and Windows (only)	
		Information Management System (IMS)	8	Oct-02	Also needs z/OS v 1.4 released Agu 2002	www-306.ibm.com/software/data/database/
		Informix	not known			www-306.ibm.com/software/data/database/
		Lotus Domino	6.x	some support on some OS	SMTP, POP3, IMAP, LDAP, HTTP for Linux, AIX, and Solaris (but not Windows)	
IP2Location.com w	ww.ip2location.com	IP2Location Open Source modules	various depending on source language	Nov-10 Page 33 of 40		

	Iman o d			1	
		various depending on	Nov-10		
	modules	source language			
Microsoft Corporation www.microsoft.com	Exchange server		May-07	Only supported on Server 2008 (64-bit version)	
		known as "12")		with both IPv4 and IPv6 enabled. 2007 SP3	
	T t t T C t	6.0.1: 1.1	7.0 :4	required for use on Server 2008 R2	
		6.0 limited support,	7.0 with	Generally good support, but 6.0 doesn't support	
	Server (IIS)	7.0 has full support	Windwos	IPv6 addresses as literal URLs per RFC 2732,	
	IZ M	1: 1 + C ID (Server 2008	7.0 supports ipv6-literal.net	
		relies on host for IPv6		installs on Windows Server 2003 or later and Volume Licensed editions of Windows 7	
	Server (KMS) for Office keys	support		Volume Licensed editions of windows /	
		1: 1 . C ID (
	KMS for Windows keys	support		installs only on Windows Server 2003 or later	
	Lync Server 2010		none		
	(formerly OCS 2010)				
	Lync Server 2013	initial release			
	Media Services 9 Series	part of Server 2003	none		
	Meeting Space	(part of Vista)	see Vista	requires the use of IPv6	
			schedule		
	NetMeeting	phased out with XP.		Netmeeting not supported on x64 server family	
		Use Live Meeting or		products	
		Meeting Space			
	Office 365		none		
	Office Communications		none		
	Server (OCS) 2007				
	Office Live Meeting,	initial release	Oct-07	Office Communicator 2007 requires Office	
	Office Communicator			Communications Server 2007	
	2007				
		2007 Office System	Jan-07		
		(previously known as			
		Office 2007)			
		Office 2010			
	Structured Query	Server 2005 (formerly			
	Language (SQL)	code-named Yukon)	Nov-05		
		GOT G 2005		C : C W' 1 (1)	
		SQL Server 2005 Express	Nov-05	free version for Windows (only)	
		SQL Server 2008	Mar-08		
	Windows Server Update Services	3.0 SP2	Sep-10		
	MaxDB (previously	none as of 7.5			
	known as SAP DB)				
Network Applicances, Inc. www.netapp.com	Data ONTAP network	7.3.3	M 10		
	appliance		May-10		
	NetCache	5.5		Supports IPv6 HTTP, SOCKS, FTP over HTTP,	
			Jun-03	FTP over TCP, Gopher, and Tunnel (SSL) for	
				Web requests	
Network File System wiki.linux-nfs.org	NFS	0.4 for NFSv4	Mar. 05	only for specific Linux versions, kernel 2.6.9 or	nfsv4.bullopensource.org/doc/nfs ipv6.php
			Mar-05	later	msv4.builopensource.org/doc/nts_ipv6.php
Objectivity, Inc. www.objectivity.com	Objectivity/DB database	10	Mar-10		
			14141-10		
ooVoo LLC www.oovoo.com/home.aspx	ooVoo VOIP	none		Not supported	

	Τ~	I			
Oracle Corporation www.oracle.com	Communications	7 Update 1			
	Message Server		Dec-08		
	(formerly Java System		Dec-08		
	Messaging Server)				
	Converged Application	4.0 on a few platforms.		Oracle Japan has supported IPv6 in 9i since	
	Server (based on	not on Solaris.		Sept 2003, but only in Japan	
	WebLogic server 10g	11gR1 wider support	Aug-08		
	release 3)	rigiti wider support			
	rerease s)	11g Express Edition		free version for Linux and Windows (only)	
		(nee Database XE)	Jun-09	free version for Linux and windows (only)	
	D1 Cit-				
	Developer Suite	none			
	E-Business Suite	11i.5.10 with patches	May-08		
		12.0 with Sun Java RE			
	HTTP Server	10.1.2.0.2			www.oracle.com/technetwork/database/enterpr
			Aug-05		ise-edition/oracledatabase-ipv6-sod-132278.pdf
	MySQL (formerly	4.0.x data structures		some data structure support in 4.x, but IPv6	
	MySQL AB)	6.4.1 transport		transport not supported until 6.x, features may	
			Jul-04	be hard to find. Many packages that use MySQL	
				(Apache for one) do support IPv6 w/o MySQL	
PostgreSQL www.postgresql.com	PostgreSQL	7.4.x		IPv6 broken in AIX version	
The PHP Group www.php.net	PHP: Hypertext	5.0.0		earlier versions had partial IPv6 support	
The TTI Group www.php.net	Preprocessor (PHP)	5.0.0	Jul-04	carrier versions had partial if vo support	
Rhino Software, Inc. www.rhinosoft.com	FTP Voyager client	Voyager 16.0	Oct-12		
Rillio Software, Inc. www.filliosoft.com	Serv-U FTP server	12.0	Jan-12		
Riverbed Technology www.riverbed.com	Stingray Traffic	12.0	Jan-12	A trump of many gamyan	
				A type of proxy server	
(formerly Zeus Technology)	Manager (includes Zeus				
	Load Balancer				
	functionality)				
	Traffic Manager family			includes Zeus embedded IP protocol stack proxy	
				server functionality	
Sandia National Laboratories	Massively Parallel SCP			IPv6 support provided by the SSh used to	
www.sandia.gov/MPSCP/mpscp_design.htm	(MPSCP)		Jun-05	perform actual file transfers	
Skype www.skype.com/intl/en-us/home (A Skype	none		No support announced for IPv6, but expected	
Microsoft Corporation company)				after Skype 6.0	
Socket Secure (SOCKS) protocol	SOCKS	version 5		protocol that supports transport layer IPv6/IPv4	www.socks.permeo.com/TechnicalResources/P
***			Apr-01	network proxies (See RFCs 1928 and 3089)	rotocolDocuments.asp
			r	r	r
Squid www.squid-cache.org	Squid	3.0STABLE1	Oct-08		
Stunnel www.stunnel.org	Stunnel	4.x	IPv6 support	universal SSL wrapper	
www.stuffiel.org	Stainier	1,11	uncertain	with the same of t	
Sun Microsystems	Java System Web	6.1, possibly earlier	uncertain		
www.oracle.com/us/sun/index.html		0.1, possibly earlier			
	Server (formerly Sun				
(an Oracle Corporation company)	ONE)	1.0		1 11 110	
Treck Inc. www.treck.com	Elmic Voyager	1.0		embedded IP protocol stack software	
	Turbo Treck	3.0 and 4.0		embedded IP protocol stack software	
Unicoi Systems, Inc www.unicoi.com	Fusion Net IPv6		Dec-05	embedded IP protocol stack software	
VideoLAN	VideoLAN server	0.8.4	1-Nov-05	Open source streaming video media server	
www.videolan.org			1-1107-03	(Legacy status. VLC media player preferred)	
	VLC media player	1.0.0	1-Jul-09	Open source streaming video media server	

General Information about Wide-area Client Software: This section contains information about remote client software. Email clients can typically support the use of IPv6, it is the servers (for POP or IMAP, typically) that may not. Most email clients and web browsers that run under UNIX or Linux will support the use of IPv6, for example, when installed on a system that supports it and communicating with a server that supports it.

	2.4 Information about specif	ic Wide-area Client Soft	ware	D (E')		
Manufactur	er, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Date First Supported	Comments or Additional Information	Related Web Site
Apple Computers	(Macintosh) www.apple.com	Safari	1.2.1	2003	Prefers IPv4 for dual-stack servers, however, can use IPv6	
Cygwin	cygwin.com	Cygwin/X	1.7	Dec-09		
Cygwin/X	x.cygwin.com	Cygwin/X	1.5.12-1 IPv6 extension 0.21	Nov-04	immature IPv6 support currently	win6.jp/Cygwin/
FileZilla	filezilla.sourceforge.net	FileZilla	2.2.8	Jun-05	IPv6 support added by DREN IPv6 pilot 2005	contact ipv6-team@hpc.mil for source modifications
gogoWARE (previously Hexag	gogoware.gogo6.com go, Inc.)	gogoCLIENT	initial release	Jun-05	tunnel broker client software	
Google, Inc	www.google.com	Chrome browser	initial release	Sep-08		
Hummingbird Ltd	l. www.hummingbird.com	X Exceed	9.0	Jan-04		
International Busi www.ibm.com/us		Lotus Notes, Domino Web Access (iNotes)	6.x	some support on some OS	IPv6 support for Linux, AIX, and Solaris (but not Windows)	
Konqueror	www.konqueror.org	Konqueror	2.2			
Lynx	lynx.browser.org	Lynx	2.8.4dev.7	2002		
Masschusetts Insti web.mit.edu/kerbe	itute of Technology (MIT) eros/www/	Kerberos clients (telnet, ftp, kinit, klist, kdestroy, krb5.exe)	1.3			
Microsoft Corpora	ation www.microsoft.com	Microsoft Network (MSN) Messenger	limited capability	since 2001	dead end. (Use Skype 6.0 or later)	
		Exchange 2000 Server Instant Messaging client	4.6 and before	none	dead end. (Use Skype 6.0 or later)	
		Internet Explorer	4.01 and later	since 2001	Generally good support, but IPv6 addresses as literal URLs per RFC 2732 (version 5.5 did) not supported until IE 7.x. Then both IPv6 literal addresses [enclosed in square brackets] and scoped addresses [enclosed in square brackets with the scope-id following a percent-encoded percent character "%25scope-id"]	
		Media Player	9	since 2001		
		Outlook	2003	2003	IPv6 support included but not very useful since Exchange 2007 pre-SP1 doesn't support IPv6	
		Outlook Express	none	2003	dead end. No IPv6 support planned	
		Windows Messenger	5.0 and later	none	comes as part of Windows XP (Use Skype 6.0 or later)	
		Windows Live Messenger	w/Office Communications Server 2007	2007	dead end. (Use Skype 6.0 or later)	
The Mozilla Orga	nization www.mozilla.org	Firefox	0.8	Feb-04	It requests AAAA records even when there is no IPv6 connectivity, causing timeouts	
		Mozilla suite	1.4	2003	Not supported under windows until 1.6	
		Thunderbird	0.5	2003	In Thunderbird, LDAP and IPv6 didn't mix until 2.0	

Mutt www.mutt.org	Mutt	1.4.1	2003	See General Information above. Other clients include ELM, MUSH, PINE, SLRN	
Netscape Communications Corporation www.netscape.com	Navigator	6.x	2003		
Opera Software ASA www.opera.com	Opera	7.20b(final)	2003	fair support, but versions prior to 10.50 under Microsoft Windows had problems with IPv6, no OS X support until 9.0	
PuTTY: A free SSh/Telnet client www.chiark.greenend.org.uk/~sgtatham/putty/	PuTTY	0.58		Since 2008 support has been consistent	unfix.org/projects/ipv6
Qualcomm Inc www.eudora.com	Eudora	none			
StarNet Communications www.starnet.com	X-Win32	v8	Jul-06		
Tera Term Pro hp.vector.co.jp/authors/VA002416/teraterm.htm l		2.1	1999		A patch for IPv6 support is needed, at win6.jp/TeraTerm/index.html
University College London (UCL) Network and Multimedia Research Group www- mice.cs.ucl.ac.uk/multimedia/overview/	Multicast Backbone (MBONE) conferencing applications	version varies with application	2001	Robust Audio Tool (RAT) and VIdeoConferencing Tool (VIC) are among the tools supporting multicast IPv6	
VideoLAN www.videolan.org	VideoLAN client	0.8.4	1-Nov-05	Open source streaming video media client and standalone media player	
XFree86 Project, Inc www.xfree86.org	X-windows system	4.4.0			
X.Org Foundation www.x.org	X-windows system	X11 R6.6			

General Information about IPv6 conversion tools, utility Software, and guidelines: Information about products in this category that support IPv6 is maintained in a separate IPv6 Knowledge Base article "Application Conversion Tools".

ĺ	2.5 Information about IPv6 conversion	out IPv6 conversion tools, utility Software, and guidelines		Date First		
	Manufacturer, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Supported	Comments or Additional Information	Related Web Site

General Information about System and Applications Development Products (Libraries, Compilers, Debuggers et cetera): Information about products in this category that support IPv6 is maintained in a separate IPv6 Knowledge Base article "IPv6 Applications Software".

2.6 Information about specific System	2.6 Information about specific System and Application Development Products				
Manufacturer, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Date First Supported	Comments or Additional Information	Point of Contact

General Information about Third Party (COTS, GOTS, Open Source) Software: Information about products in this category that support IPv6 is maintained in a separate knowledge base article TPv6 Applications Software".

2.7 Information about specific Third Party Software		Date First			
Manufacturer, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Supported	Comments or Additional Information	Point of Contact

General Information about Other Devices (Like videoconference equipment, audio/video (A/V) controllers, printers, scanners, FAX machines): Many products manufactured outside the United States can support IPv6. A few of the products available for purchase in the United States are shown below.

3. Information about specific Other Devices			Date First		
Manufacturer, Vendor or Developer	Make, Model, or Series	First Version with IPv6 support	Supported	Comments or Additional Information	Related Web Site

			-	,	
American Power Conversion Corp.	UPS Network	APC Operating	Feb-10	IPv6-enabled Uninterruptible Power Supply	
www.apc.com	Management Card 2	System 5.1.1		(UPS) controller	
(a Schneider-Electric company)					
Apple Computers (Macintosh) www.apple.com	AirPort	4.x through 5.6,		Tends to set up 6to4 tunnels when	
		dropped in 6.0,		inappropriate. Unhappy when IPv6 turned off.	
		reappeared in 6.1		4.2 improved link local configuration. 5.2 fixed	
				6to4 problem	
	AirPort Extreme	all. On by default	Jan-07	See AirPort comments above	
	Time Capsule	all. On by default	Jan-07	See AirPort comments above	
Axis Communications www.axis.com/us/	Network Camera	223M	Dec-06		
		P1311	Dec-08	H.264 compliant	
Buffalo Technologies, Inc. www.buffalo.com	AirStation WLI-U2-		Feb-07		
	SG54HP			wireless access point signal/speed booster	
Crestron Electronics, Inc. www.crestron.com	CEN-SWPOE-24	Core 3 O/S	Oct-10	24-port managed power over Ethernet (PoE)	
, , , , , , , , , , , , , , , , , , ,	MC3 A/V controller	Core 3 O/S	Oct-10	, and the second	
Cyclades Corp. www.cyclades.com	Cyclades-PC300, -			Depends on the equipment it is installed in	
, r	PC400, -Y, -Z		no specific	The state of the s	
	terminal servers		support		
Digi International www.digi.com	Portserver terminal			IPv6 support planned but not scheduled	
2.81 monatona www.a.g.toom	servers		none	in to support planned out not sometime.	
	EtherLite terminal		none	IPv6 support planned but not scheduled	
	servers		none		
Hewlett Packard Development Company	JetDirect 635n network		mid-2005	Provides IPv6 for any HP peripheral with an	
www.hp.com	card		IIII u- 2003	Enhanced Input/Output (EIO) slot	
Lacunary Ltd. www.ipv6buddy.com	IPv6 Buddy	all		external numeric keypad with : and :: keys	
Marconi Systems Inc. www.marconi.com	Virtual Presence (ViPr)			Based on recent RADVISION SIP development	
	Desktop Terminal		Sep-04	toolkit updates. Native IPv6, no dual-stack	
	•		•		
	ViPr Conference Room			Based on recent RADVISION SIP development	
	System		Sep-04	toolkit updates. Native IPv6, no dual-stack	
			1	,	
Microsoft Corporation www.microsoft.com	Xbox 360	none			
1	Xbox One		initial release	limited; static IPv6 addresses not supported	
Nintendo www.nintendo.com	DS, DS3	none			
	Gamecube	none			
	Wii, Wii U	none			
Panasonic Communications Co., Ltd	BB-HCM311A	1.64		network-attached camera with built-in	
www.panasonic.com	HX-HCM280v6			webserver (outdoor, wireless, and zoom models	
	HX-HCM230v6		Aug-04	will be available later)	
	(and more)			"In so uvanasio iator)	
	C3 Series devices	w/DA-NS320 module			
	C3 Belles devices	W/DA-N3320 module	Nov-05		
	(at least 5 models)	w/DA-NS320 module	Nov-05		
Polycom Network Systems www.polycom.com	HDX xxxx series	2.0.5_J	Mor 00		
			Mar-09		
	MGC-25, -50, -100	unknown	mid 2007	support via application layer gateway (ALG)	
			mid-2007		
	RealPresence solutions	unknown	Ion 11		
			Jan-11		
	VSX-series	unknown	mid-2007	native support in hardware	
SEH Computertechnik GmbH	Internal Print Server	PS107			
www.seh-technology.com	(Print Server for		Dec-08		
	EPSON Type B Port)				
Silex Technology www.silexamerica.com	Pricom H-260U		2003	Provides IPv6 for any HP peripheral with an	
				EIO slot. Available in United States	

		SX3100 Printer Server	1.2	Jul-04	Provides IPv6 for any parallel port printer	
		SX3100 Printer Server	1.2	Jul-04	First print server officially certified by IPv6	
		TCP/IP Model			Forum under IPv6 Ready Logo Phase 1 program	
Sony Corporation of Ar	merica www.sony.com	Playstation	Portable (PSP)	none		
			2	May-01	requires external broadband adapter	
			3	none		
			4	initial release	limited; static IPv6 addresses not supported	
TANDBERG		Tandberg Management	Version 11.9.1	Oct-08		
www.tandberg.com		Suite				
Vidyo, Inc.	www.vidyo.com	Vidyo Conferencing		May-12		
		suite				
Vytek Corporation	www.vytek.com	TelAlert Messaging event notification system		no specific support	Depends on the equipment it is connected to	

General Information about IPv6-related Product Information Web sites: These Web sites provide lists of IPv6-enabled products. Sme of the above product information in the above listing was obtained from them. This list does not attempt nor promise to be comprehensive

4. Information about specific IPv6-related Product Information Web sites (in alphabetical order)	Comments or Additional Information
www.antd.nist.gov/usgv6/products.html	A list of Suppliers Declarations of Conformity (SDOCs) for products tested by laboratories accredited under the National Institute for Standards and Technology (NIST) U.S. Government standards for IPv6 (USGv6) program
https://aplits.disa.mil	list of equipment on the DoD Approved Product List maintained and tested by Joint Interoperability Test Command and other Centers of Excellence. (The web site does not require a PKI certificate for access, even though it does ask for one.)
en.wikipedia.org/wiki/Comparison_of_IPv6_application_support	comprehensive IPv6 application and patch database
gogonet.gogo6.com/	Extensive set of information and pointers to IPv6 reference information, supported by Hexago,
helpdesk.wisc.edu/ns/page.php?id=11691	UW-Madison IPv6 Application Compatibility List, including network management tools
ipv6.niif.hu/m/ipv6_apps_db	comprehensive IPv6 application and patch database maintained by the NIIF/HUNGARNET
labs.ripe.net/Members/marco/content-ipv6-cpe-survey	RIPE (European) survey of Customer Premises Equipment (CPE) routers that support IPv6. Published June 2010 with a link to more recent surveys
sectools.org	A comprehensive listing of security/attack tools maintained by the insecure.org Nmap developer
www.cert.org/archive/pdf/aia-handbook.pdf	Comprehensive list of tools from the Carnegie Mellon CERT that aid in detecting signs of network or system intrusion, in Advanced Information Assurance (AIA) Handbook
www.dns.net/dnsrd/	DNS Resources Directory, with pointers to books, software, and training for establishing and running a Domain Name Server (DNS), whether IPv4 or IPv6
www.deepspace6.net/docs/ipv6_status_page_apps.html	Comprehensive list of Linux related software, including network management software
www.euro6ix.com/main/index.php	Reports on Euro6IX groupware and distributed applications porting experience, along with a number or documents on network management and IPv6 features evaluation
www.foundstone.com/us/resources-free-tools.asp	A listing of free security software tools provided by McAfee/Foundstone, including forensic, scanning, IDS, and stress testing tools
www.ipv6forum.org/modules.php?op=modload&name=Web_Links&file=index	IPv6 Forum (comprehensive implementations, applications, and related information)
www.ipv6ready.org	IPv6 Forum validation program for IPv6 tested products (IPv6 ready logo). Many of the products listed are not readily available in the United States.
www.ipv6-to-standard.org/	IPv6 information web site about IPv6 related applications, products, services, and web sites. Very comprehensive though reduced update frequency after 2008
www.moonv6.org/project/	Multi-vendor, multi-national effort led by DoD Joint Interoperability Test Command to test commercial IPv6 products. Various papers on this page show tests and products (as of June, 2011, no longer active)

System Administration Networking and Security (SANS) Institute	Lengthy list of papers on many security-related topics. Search for IPv6 or special interest key
www.sans.org/reading_room	words
www.ultratools.com/tools/home	A listing of free DNS software tools provided by NeuStar, Inc., including IPv6 analysis tools
University of Amsterdam System and Network Engineering OS3 Archive of Master's Theses	Lengthy list of papers on many security-related topics. Search for IPv6 or special interest key
https://www.os3.nl/archive/research_projects	words
Wiretapped Computer Security Software etc.	Comprehensive archive of software and information covering the areas of host, network and
www.wiretapped.net	information security. In particular, look under the Network subheading.
IBM Software	A summary of IPv6 compliance status in IBM software products
www-01.ibm.com/software/info/ipv6/compliance.jsp	