













IPv6 Brief History
 Fall 1992 – IPv4 addresses will run out someday Oct 1993 – DHCP – RFC 1531 – easier IPv4 address management Dec 1993 – IPng – RFC 1550 – basic specification for next version IP May 1994 – NAT – RFC 1631 – temporary solution before IPng available Dec 1995 – RFC 1883 – Basic specifications of IPv6 Feb 1996 – RFC 1918 – Private Iv4 addresses
• Dec 1998 – RFC 2460 – Full IPV6 defined • May 2005 – RFC 3927 – APIPA (IPv4)
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Address	types	
Address Type	IPv4	IPv6
Unicast - One-to-one communication	Yes	Yes
Broadcast - One-to-many communication local	Yes	<u>No</u>
Multicast - One-to-many communication local/remote	Yes	Yes
Anycast - One-to-many communication nearest	Yes	Yes
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Address Type	IPv4	IPv6
Default Route	0.0.0/0	::/0
Unspecified	0.0.0/32	::/128
Loopback	127.0.0.1/8	::1/128
Multicast	224.0.0.0/4	ff00::/8
Link-Local	169.254.0.0/16	fe80::/10
Global Unicast	All others	2000::/3
Unique Local	10.0.0.0/8 172.16.0.0/12 192.168.0.0/16	fc00::/7 (assigned from fd00::/8)
Documentation	192.0.2.0/24 198.51.100.0/24 203.0.113.0/24	2001:db8::/32

l	IPv6 well known multicast addresse				
	Address	Description	Scope		
	ff01::1	All nodes address	Interface-local		
	ff02::1	All nodes address	Link-local		
	ff01::2	All routers address	Interface-local		
	ff02::2	All routers address	Link-local		
	ff05::2	All routers address	Site-local		
	ff02::4	DVMRP routers	Link-local		
	ff02::5	OSPF drothers	Link-local		
	ff02::6	OSPF designated routers	Link-local		
	ff02::9	RIPng routers	Link-local		
	ff02::a	EIGRPv6 routers	Link-local		
	ff02::d	All PIM routers	Link-local		
	ff02::16	ALL MLDv2 routers	Link-local		
	ff02::1:2	DHCPv6 servers/agents	Link-local		
	ff02::1:3	DHCPv6 servers/agents	Site-local		
	ff02::1:ffxx:xxxx	Solicited node address	Link-local		
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Address Autoconfiguration Method	ICM RA (Ty Fla M Flag	IPv6 pe 134) ags O Flag	ICM RA (Ty ICMPv6 Prefix A Flag	Pv6 pe 134) Option x Info L Flag	Prefix Derived from	Interface ID Derived from	Other Configuration Options	# of IPv6 Addr
Link-Local (always configured)	N/A	N/A	N/A	N/A	Internal (fe80::)	M-EUI-64 or Privacy	Manual	1
Manual	Off	Off	Off	On	Manual	Manual	Manual	2 (LL, Manual)
SLAAC	Off	Off	On	On	RA	M-EUI-64 or Privacy	Manual	3 (LL, IPv6, IPv6 temp
Stateful (DHCPv6)	On	N/R	Off	On	DHCPv6	DHCPv6	DHCPv6	2 (LL, DHCPv6)
Stateless DHCPv6	Off	On	On	On	RA	M-EUI-64 or Privacy	DHCPv6	3 (LL, IPv6, IPv6 temp
Combination Stateless & DHCPv6	On	N/R	On	On	RA and DHCPv6	M-EUI-64 or Privacy and DHCPv6	DHCPv6	4 (LL, IPv6, IPv6 temp DHCPv6)

	IPv6 Stateful (DHCPv6) proc	ess	
RA_no_O-flag_still-ge	t-all-DHCPv6-other-Info_HP-3500_061720	012_1315-pcap (Wireshark 1.8.2 (SVN Re	v 44520 from	n /burk-1.8)}
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3 13:13:17	fe80::223:47ff:fec1:6140	fe80::f10c:df5f:1fc2:2bee	DHCPV6	184 Advertise
4 13:13:18	fe80::f10c:df5f:1fc2:2bee	ff02::1:2	DHCPV6	192 Request XI
5 13:13:18	fe80::223:47ff:fec1:6140	fe80::f10c:df5f:1fc2:2bee	OHCPV6	184 Reply XID:
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Using Wireshark to view IPv6 pkts

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Profile: IPv6	Switch to	Bluetooth IPv6 in Wireshark v1.5 - Copyright 6 • Computer History	© 2016 Jeffrey L. Carrell Museum • June 13-16, 2016 37	

Packet	annotation
Right click packet, select	Packet Comment
<pre>fe80::c5d:1d09:36ec:4c66 ; fe80::c5d:1d09:36ec:4c66 ; 2001:db8:1ab:ha5e::2000 re (560 bits), 76 bytes capt [4:a9:fa (00:0c:29:14:a9:fa) 6, Src: fe80::c5d:1d09:36ec </pre>	Mark/Unmark Packet Ctrl+M Ignore/Unignore Packet Ctrl+D Set/Unset Time Reference Cast T Time Shift Ctrl+Shift+T Packet Comment Edit Resolved Name Apply as Filter • Prepare a Filter • Prepare a Filter • Colonze Conversation • SCTP • Follow • Copy • Protocol Preferences • Decode As Show Packet in New Window

151 0.000	23:15:01.324	fe80::c5d:1d09:36e	c:4c65 Ff0	2112	ICMPV6	70 Router Solicitation
52.0.000	23:15:01.324	Fe80::c5d:1d09:36e	c:4c66 ff8	Wireshark - Packet Comment	7 X	90 Multicast Listener F
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54 0.285	23:15:01.616	1489;11	(Ff0	1st Router Solicitation seen	110 Houter Advertisemen	
55 0.211	23:15:01.827	fe80::c5d:1d09:36e	c:4c66 Hf0			90 Multicast Listener
60 0,029	23:15:09.933	fe88::c5d:1d89:36e	c:4c66 ff0	90 Mult	90 Multicast Listener	
61 0.004	23:15:09,937	fe80::c5d:1d09:36e	c:4c66 ff0			90 Multicast Listener
62 0.000	23:15:09:938	+e80::c5d:1d09:36e	c:4c66 +f0	A		90 Multicast Listener
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