



IPv6 RFCs

Last Updated: January 23, 2013

Standards and RFCs

RFCs	Title
RFC 1195	<i>Use of OSI IS-IS for Routing in TCP/IP and Dual Environments</i>
RFC 1267	<i>A Border Gateway Protocol 3 (BGP-3)</i>
RFC 1305	<i>Network Time Protocol (Version 3) Specification, Implementation and Analysis</i>
RFC 1583	<i>OSPF version 2</i>
RFC 1772	<i>Application of the Border Gateway Protocol in the Internet</i>
RFC 1886	<i>DNS Extensions to Support IP version 6</i>
RFC 1918	<i>Address Allocation for Private Internets</i>
RFC 1981	<i>Path MTU Discovery for IP version 6</i>
RFC 2080	<i>RIPng for IPv6</i>
RFC 2281	<i>Cisco Hot Standby Router Protocol (HSRP)</i>
RFC 2332	<i>NBMA Next Hop Resolution Protocol (NHRP)</i>
RFC 2373	<i>IP Version 6 Addressing Architecture</i>
RFC 2374	<i>An Aggregatable Global Unicast Address Format</i>
RFC 2375	<i>IPv6 Multicast Address Assignments</i>
RFC 2401	<i>Security Architecture for the Internet Protocol</i>
RFC 2402	<i>IP Authentication Header</i>



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RFCs	Title
RFC 2404	<i>The Use of Hash Message Authentication Code Federal Information Processing Standard 180-1 within Encapsulating Security Payload and Authentication Header</i>
RFC 2406	<i>IP Encapsulating Security Payload (ESP)</i>
RFC 2407	<i>The Internet Security Domain of Interpretation for ISAKMP</i>
RFC 2408	<i>Internet Security Association and Key Management Protocol</i>
RFC 2409	<i>Internet Key Exchange (IKE)</i>
RFC 2427	<i>Multiprotocol Interconnect over Frame Relay</i>
RFC 2428	<i>FTP Extensions for IPv6 and NATs</i>
RFC 2460	<i>Internet Protocol, Version 6 (IPv6) Specification</i>
RFC 2461	<i>Neighbor Discovery for IP Version 6 (IPv6)</i>
RFC 2462	<i>IPv6 Stateless Address Autoconfiguration</i>
RFC 2463	<i>Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification</i>
RFC 2464	<i>Transmission of IPv6 Packets over Ethernet</i>
RFC 2467	<i>Transmission of IPv6 Packets over FDDI</i>
RFC 2472	<i>IP Version 6 over PPP</i>
RFC 2473	<i>Generic Packet Tunneling in IPv6 Specification</i>
RFC 2474	<i>Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers</i>
RFC 2475	<i>An Architecture for Differentiated Services Framework</i>
RFC 2492	<i>IPv6 over ATM</i>
RFC 2545	<i>Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing</i>
RFC 2590	<i>Transmission of IPv6 Packets over Frame Relay Specification</i>
RFC 2597	<i>Assured Forwarding PHB</i>
RFC 2598	<i>An Expedited Forwarding PHB</i>

RFCs	Title
RFC 2640	<i>Internet Protocol, Version 6 Specification</i>
RFC 2684	<i>Multiprotocol Encapsulation over ATM Adaptation Layer 5</i>
RFC 2697	<i>A Single Rate Three Color Marker</i>
RFC 2698	<i>A Two Rate Three Color Marker</i>
RFC 2710	<i>Multicast Listener Discovery (MLD) for IPv6</i>
RFC 2711	<i>IPv6 Router Alert Option</i>
RFC 2732	<i>Format for Literal IPv6 Addresses in URLs</i>
RFC 2765	<i>Stateless IP/ICMP Translation Algorithm (SIIT)</i>
RFC 2766	<i>Network Address Translation-Protocol Translation (NAT-PT)</i>
RFC 2858	<i>Multiprotocol Extensions for BGP-4</i>
RFC 2893	<i>Transition Mechanisms for IPv6 Hosts and Routers</i>
RFC 3056	<i>Connection of IPv6 Domains via IPv4 Clouds</i>
RFC 3068	<i>An Anycast Prefix for 6to4 Relay Routers</i>
RFC 3095	<i>RObust Header Compression (ROHC): Framework and Four Profiles: RTP, UDP, ESP, and Uncompressed</i>
RFC 3107	<i>Carrying Label Information in BGP-4</i>
RFC 3137	<i>OSPF Stub Router Advertisement</i>
RFC 3147	<i>Generic Routing Encapsulation over CLNS</i>
RFC 3152	<i>Delegation of IP6.ARPA</i>
RFC 3162	<i>RADIUS and IPv6</i>
RFC 3315	<i>Dynamic Host Configuration Protocol for IPv6 (DHCPv6)</i>
RFC 3319	<i>Dynamic Host Configuration Protocol (DHCPv6) Options for Session Initiated Protocol (SIP) Servers</i>
RFC 3392	<i>Capabilities Advertisement with BGP-4</i>
RFC 3414	<i>User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)</i>

RFCs	Title
RFC 3484	<i>Default Address Selection for Internet Protocol version 6 (IPv6)</i>
RFC 3513	<i>Internet Protocol Version 6 (IPv6) Addressing Architecture</i>
RFC 3576	<i>Change of Authorization</i>
RFC 3587	<i>IPv6 Global Unicast Address Format</i>
RFC 3590	<i>Source Address Selection for the Multicast Listener Discovery (MLD) Protocol</i>
RFC 3596	<i>DNS Extensions to Support IP Version 6</i>
RFC 3633	<i>DHCP IPv6 Prefix Delegation</i>
RFC 3646	<i>DNS Configuration options for Dynamic Host Configuration Protocol for IPv6 (DHCPv6)</i>
RFC 3697	<i>IPv6 Flow Label Specification</i>
RFC 3736	<i>Stateless DHCP Service for IPv6</i>
RFC 3756	<i>IPv6 Neighbor Discovery (ND) Trust Models and Threats</i>
RFC 3759	<i>RObust Header Compression (ROHC): Terminology and Channel Mapping Examples</i>
RFC 3775	<i>Mobility Support in IPv6</i>
RFC 3810	<i>Multicast Listener Discovery Version 2 (MLDv2) for IPv6</i>
RFC 3846	<i>Mobile IPv4 Extension for Carrying Network Access Identifiers</i>
RFC 3879	<i>Deprecating Site Local Addresses</i>
RFC 3898	<i>Network Information Service (NIS) Configuration Options for Dynamic Host Configuration Protocol for IPv6 (DHCPv6)</i>
RFC 3954	<i>Cisco Systems NetFlow Services Export Version 9</i>
RFC 3956	<i>Embedding the Rendezvous Point (RP) Address in an IPv6 Multicast Address</i>
RFC 3963	<i>Network Mobility (NEMO) Basic Support Protocol</i>
RFC 3971	<i>SEcure Neighbor Discovery (SEND)</i>
RFC 3972	<i>Cryptographically Generated Addresses (CGA)</i>

RFCs	Title
RFC 4007	<i>IPv6 Scoped Address Architecture</i>
RFC 4075	<i>Simple Network Time Protocol (SNTP) Configuration Option for DHCPv6</i>
RFC 4087	<i>IP Tunnel MIB</i>
RFC 4091	<i>The Alternative Network Address Types (ANAT) Semantics for the Session Description Protocol (SDP) Grouping Framework</i>
RFC 4092	<i>Usage of the Session Description Protocol (SDP) Alternative Network Address Types (ANAT) Semantics in the Session Initiation Protocol (SIP)</i>
RFC 4109	<i>Algorithms for Internet Key Exchange version 1 (IKEv1)</i>
RFC 4191	<i>Default Router Preferences and More-Specific Routes</i>
RFC 4193	<i>Unique Local IPv6 Unicast Addresses</i>
RFC 4214	<i>Intra-Site Automatic Tunnel Addressing Protocol (ISATAP)</i>
RFC 4242	<i>Information Refresh Time Option for Dynamic Host Configuration Protocol for IPv6 (DHCPv6)</i>
RFC 4282	<i>The Network Access Identifier</i>
RFC 4283	<i>Mobile Node Identifier Option for Mobile IPv6</i>
RFC 4285	<i>Authentication Protocol for Mobile IPv6</i>
RFC 4291	<i>IP Version 6 Addressing Architecture</i>
RFC 4292	<i>IP Forwarding Table MIB</i>
RFC 4293	<i>Management Information Base for the Internet Protocol (IP)</i>
RFC 4302	<i>IP Authentication Header</i>
RFC 4306	<i>Internet Key Exchange (IKEv2) Protocol</i>
RFC 4308	<i>Cryptographic Suites for IPsec</i>
RFC 4364	<i>BGP MPLS/IP Virtual Private Networks (VPNs)</i>
RFC 4382	<i>MPLS/BGP Layer 3 Virtual Private Network (VPN) Management Information Base</i>

RFCs	Title
RFC 4443	<i>Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification</i>
RFC 4552	<i>Authentication/Confidentiality for OSPFv3</i>
RFC 4594	<i>Configuration Guidelines for DiffServ Service Classes</i>
RFC 4601	<i>Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification</i>
RFC 4610	<i>Anycast-RP Using Protocol Independent Multicast (PIM)</i>
RFC 4649	<i>Dynamic Host Configuration Protocol for IPv6 (DHCPv6) Relay Agent Remote-ID Option</i>
RFC 4659	<i>BGP-MPLS IP Virtual Private Network (VPN) Extension for IPv6 VPN</i>
RFC 4724	<i>Graceful Restart Mechanism for BGP</i>
RFC 4798	<i>Connecting IPv6 Islands over IPv4 MPLS Using IPv6 Provider Edge Routers (6PE)</i>
RFC 4818	<i>RADIUS Delegated-IPv6-Prefix Attribute</i>
RFC 4861	<i>Neighbor Discovery for IP version 6 (IPv6)</i>
RFC 4862	<i>IPv6 Stateless Address Autoconfiguration</i>
RFC 4884	<i>Extended ICMP to Support Multi-Part Messages</i>
RFC 4885	<i>Network Mobility Support Terminology</i>
RFC 4887	<i>Network Mobility Home Network Models</i>
RFC 5015	<i>Bidirectional Protocol Independent Multicast (BIDIR-PIM)</i>
RFC 5059	<i>Bootstrap Router (BSR) Mechanism for Protocol Independent Multicast (PIM)</i>
RFC 5072	<i>IPv6 over PPP</i>
RFC 5095	<i>Deprecation of Type 0 Routing Headers in IPv6</i>
RFC 5120	<i>M-ISIS: Multi Topology (MT) Routing in Intermediate System to Intermediate Systems (IS-ISs)</i>
RFC 5130	<i>A Policy Control Mechanism in IS-IS Using Administrative Tags</i>

RFCs	Title
RFC 5187	<i>OSPFv3 Graceful Restart</i>
RFC 5213	<i>Proxy Mobile IPv6</i>
RFC 5308	<i>Routing IPv6 with IS-IS</i>
RFC 5340	<i>OSPF for IPv6</i>
RFC 5460	<i>DHCPv6 Bulk Leasequery</i>
RFC 5643	<i>Management Information Base for OSPFv3</i>
RFC 5838	<i>Support of Address Families in OSPFv3</i>
RFC 5844	<i>IPv4 Support for Proxy Mobile IPv6</i>
RFC 5845	<i>Generic Routing Encapsulation (GRE) Key Option for Proxy Mobile IPv6</i>
RFC 5846	<i>Binding Revocation for IPv6 Mobility</i>
RFC 5881	<i>Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop)</i>
RFC 5905	<i>Network Time Protocol Version 4: Protocol and Algorithms Specification</i>
RFC 5969	<i>IPv6 Rapid Deployment on IPv4 Infrastructures (6RD) -- Protocol Specification</i>
RFC 6105	<i>IPv6 Router Advertisement Guard</i>
RFC 6620	<i>FCFS SAVI: First-Come, First-Served Source Address Validation Improvement for Locally Assigned IPv6 Addresses</i>

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