



IPv6 RFCs

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> |

| RFCs | Title |
|-------------|--|
| RFC 2402 | <i>IP Authentication Header</i> |
| 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> |

| RFCs | Title |
|-------------|---|
| 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> |
| 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> |

| RFCs | Title |
|-------------|--|
| 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> |
| 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> |

| RFCs | Title |
|-------------|--|
| 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> |
| 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> |

| RFCs | Title |
|-------------|--|
| 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> |
| 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> |

| RFCs | Title |
|-------------|--|
| 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> |
| 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> |

| RFCs | Title |
|-------------|--|
| 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> |