IETF RFCs Supported by Cisco NX-OS Unicast Features

This appendix lists the IETF RFCs supported in Cisco NX-OS. For information on each RFC, see www.ietf.org.

BGP RFCs

RFCs	Title
RFC 1997	*BGP Communities Attribute*
RFC 2385	*Protection of BGP Sessions via the TCP MD5 Signature Option*
RFC 2439	*BGP Route Flap Damping*
RFC 2519	*A Framework for Inter-Domain Route Aggregation*
RFC 2545	*Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing*
RFC 2858	*Multiprotocol Extensions for BGP-4*
RFC 2918	*Route Refresh Capability for BGP-4*
RFC 3065	*Autonomous System Confederations for BGP*
RFC 3392	*Capabilities Advertisement with BGP-4*
RFC 4271	*A Border Gateway Protocol 4 (BGP-4)*
RFC 4273	*Definitions of Managed Objects for BGP-4*
RFC 4456	*BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP)*
RFC 4486	*Subcodes for BGP Cease Notification Message*
RFC 4724	*Graceful Restart Mechanism for BGP*
RFC 4893	*BGP Support for Four-octet AS Number Space*
RFC 5004	*Avoid BGP Best Path Transitions from One External to Another*
RFC 5396[1]	*Textual Representation of Autonomous System (AS) Numbers*
RFC 5549	*Advertising IPv4 Network Layer Reachability Information with an IPv6 Next Hop*
RFC 5668	*4-Octet AS Specific BGP Extended Community*

RFCs	Title
draft-ietf-idr-add-paths-08.txt	*Advertisement of Multiple Paths in BGP*
draft-ietf-idr-bgp4-mib-15.txt	*BGP4-MIB*
draft-kato-bgp-ipv6-link-local-00.txt	*BGP4+ Peering Using IPv6 Link-local Address*

1. RFC 5396 is partially supported. The asplain and asdot notations are supported, but the asdot+ notation is not.

First-Hop Redundancy Protocol RFCs

RFCs	Title
RFC 2281	*Hot Standby Redundancy Protocol*
RFC 3768	*Virtual Router Redundancy Protocol*

IP Services RFCs

RFCs	Title
RFC 786	*UDP*
RFC 791	*IP*
RFC 792	*ICMP*
RFC 793	*TCP*
RFC 826	*ARP*
RFC 1027	*Proxy ARP*
RFC 1591	*DNS Client*
RFC 1812	*IPv4 routers*
RFC 4022	*TCP-MIB*
RFC 4292	*IP-FORWARDING-TABLE-MIB*
RFC 4293	*IP-MIB*

IPv6 RFCs

RFCs	Title
RFC 1981	*Path MTU Discovery for IP version 6*
RFC 2373	*IP Version 6 Addressing Architecture*
RFC 2374	*An Aggregatable Global Unicast Address Format*
RFC 2460	*Internet Protocol, Version 6 (IPv6) Specification*
RFC 2461	*Neighbor Discovery for IP Version 6 (IPv6)*
RFC 2462	*IPv6 Stateless Address Autoconfiguration*
RFC 2464	*Transmission of IPv6 Packets over Ethernet Networks*
RFC 3152	*Delegation of IP6.ARPA*

RFCs	Title
RFC 3162	*RADIUS and IPv6*
RFC 3513	*Internet Protocol Version 6 (IPv6) Addressing Architecture*
RFC 3596	*DNS Extensions to Support IP version 6*
RFC 4193	*Unique Local IPv6 Unicast Addresses*

IS-IS RFCs

RFCs	Title
RFC 1142	*OSI 10589 Intermediate system to intermediate system intra-domain routing exchange protocol*
RFC 1195	*Use of OSI IS-IS for routing in TCP/IP and dual environment*
RFC 2763, RFC 5301	*Dynamic Hostname Exchange Mechanism for IS-IS*
RFC 2966, RFC 5302	*Domain-wide Prefix Distribution with Two-Level IS-IS*
RFC 2972	*IS-IS Mesh Groups*
RFC 3277	*IS-IS Transient Blackhole Avoidance*
RFC 3373, RFC 5303	*Three-Way Handshake for IS-IS Point-to-Point Adjacencies*
RFC 3567, RFC 5304	*IS-IS Cryptographic Authentication*
RFC 3784, RFC 5305	*IS-IS Extensions for Traffic Engineering*
RFC 3847, RFC 5306	*Restart Signaling for IS-IS*
draft-ietf-isis-igp-p2p-over-lan-06.txt	*Internet Draft Point-to-point operation over LAN in link-state routing protocols*

OSPF RFCs

RFCs	Title
RFC 2328	*OSPF Version 2*
RFC 2370	*The OSPF Opaque LSA Option*
RFC 2740	*OSPF for IPv6*
RFC 3101	*The OSPF Not-So-Stubby Area (NSSA) Option*
RFC 3137	*OSPF Stub Router Advertisement*
RFC 3623	*Graceful OSPF Restart*
RFC 4552 (partial support)	*Authentication/Confidentiality for OSPFv3*
RFC 5709	*OSPFv2 HMAC-SHA Cryptographic Authentication*
draft-ietf-ospf-ospfv3-graceful-restart-04.txt	*OSPFv3 Graceful Restart*

Per-Hop Behavior RFCs

RFCs	Title
RFC 2597	*Assured Forwarding PHB Group*
RFC 3246	*An Expedited Forwarding PHB*

RIP RFCs

RFCs	Title
RFC 2082	*RIP-2 MD5 Authentication*
RFC 2453	*RIP Version 2*