

# **IETF RFCs Supported by Cisco NX-OS Unicast Features**

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#### **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

RFCs	Title
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 <sup>1</sup>	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
RFC 7606	Revised Error Handling for BGP Update Messages
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

<sup>&</sup>lt;sup>1</sup> RFC 5396 is partially supported. The asplain and asdot notations are supported, but the asdot+ notation is not.

# **First-Hop Redundancy Protocols RFCs**

RFCs	Title
RFC 2281	Hot Standby Redundancy Protocol
RFC 3768	Virtual Router Redundancy Protocol
RFC 5798	Virtual Router Redundancy Protocol (VRRP) Version 3 for IPv4 and IPv6

### **IP Services RFCs**

RFCs	Title
RFC 786	UDP
RFC 791	IP .
RFC 792	ICMP

RFCs	Title
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 2464	Transmission of IPv6 Packets over Ethernet Networks
RFC 3152	Delegation of IP6.ARPA
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
RFC 4862 (replaced RFC 2462)	IPv6 Stateless Address Autoconfiguration

#### **IS-IS RFCs**

RFCs	Title
RFC 1142	OSI 10589 intermediate system to intermediate system intro-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
RFC 4205, RFC 5307	IS-IS Extensions in Support of Generalized Multi-Protocol Label Switching
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 5709	OSPFv2 HMAC-SHA Cryptographic Authentication
draft-ietf-ospf-ospfv3-graceful-restart-04.txt	OSPFv3 Graceful Restart

### **RIP RFCs**

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

RIP RFCs