



Huawei
S27&S37&S57&S67
Standard and Protocol Comply Table

Issue **01**
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S27&S37&S57&S67 Standard and Protocol Comply Table

Standard Classification	Standards Organization	Standard Number	Standard title	S27	S37EI	S37SI	S5700LI	S5700SI	S5700EI	S5710EI	S57HI	S67EI	Notes
AAA													
	IETF	RFC 2138	Remote Authentication Dial In User Service (RADIUS)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC 2139	RADIUS Accounting	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC 2618	RADIUS Authentication Client MIB	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC 2620	RADIUS Accounting Client MIB	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC 2865	Remote Authentication Dial In User Service (RADIUS)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC 2866	RADIUS Accounting	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC 2869	RADIUS Extensions	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC2903	Generic AAA Architecture	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC2904	AAA Authorization Framework	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC2905	AAA Authorization Application Examples	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC2906	AAA Authorization Requirements	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	draft-grant-tacacs-02	TACACS+	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC3575	IANA Considerations for RADIUS (Remote Authentication Dial In User Service)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC 3576	Dynamic Authorization Extensions to Remote Authentication Dial In User Service (RADIUS)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
ARP													
	IETF	RFC 0826	Ethernet Address Resolution Protocol	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC 1027	Using ARP to Implement Transparent Subnet Gateways	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC 1042	A Standard for the Transmission of IP Datagrams over IEEE 802 Networks	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BFD													
	IETF	draft-ietf-bf-d-base-05	Bidirectional Forwarding Detection	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-base-06	Bidirectional Forwarding Detection	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-base-07	Bidirectional Forwarding Detection	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-base-09	Bidirectional Forwarding Detection	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-v4v6-1h-op-04	BFD for IPv4 and IPv6 (Single Hop)	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-v4v6-1h-op-05	BFD for IPv4 and IPv6 (Single Hop)	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-v4v6-1h-op-07	BFD for IPv4 and IPv6 (Single Hop)	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-v4v6-1h-op-08	BFD for IPv4 and IPv6 (Single Hop)	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-v4v6-1h-op-09	BFD for IPv4 and IPv6 (Single Hop)	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-v4v6-1h-op-10	BFD for IPv4 and IPv6 (Single Hop)	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-multihop-06	BFD for Multihop Paths	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-multihop-07	BFD for Multihop Paths	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-multihop-08	BFD for Multihop Paths	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-mpls-02	BFD For MPLS LSPs	x	x	x	x	x	✓	✓	✓	x	
	IETF	draft-ietf-bf-d-mpls-03	BFD For MPLS LSPs	x	x	x	x	x	✓	✓	✓	x	
	IETF	draft-ietf-bf-d-mpls-07	BFD For MPLS LSPs	x	x	x	x	x	✓	✓	✓	x	
	IETF	draft-ietf-bf-d-generic-02	Generic Application of BFD	x	✓	x	x	x	✓	✓	✓	✓	
	IETF	draft-ietf-bf-d-generic-03	Generic Application of BFD	x	✓	x	x	x	✓	✓	✓	✓	



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	IETF	draft-ietf-bfd-generic-04	Generic Application of BFD	x	√	x	x	x	√	√	√	√	
	IETF	draft-ietf-bfd-generic-05	Generic Application of BFD	x	√	x	x	x	√	√	√	√	
BGP													
	IETF	RFC1105	Border Gateway Protocol BGP	x	√	x	x	x	√	√	√	√	obsoleted by RFC1163,RFC1267
	IETF	RFC1163	A Border Gateway Protocol (BGP)	x	√	x	x	x	√	√	√	√	obsoletes RFC1105/obsoleted by RFC1267
	IETF	RFC1164	Application of the Border Gateway Protocol in the Internet	x	√	x	x	x	√	√	√	√	obsoleted by RFC1268
	IETF	RFC1265	BGP Protocol Analysis	x	√	x	x	x	√	√	√	√	
	IETF	RFC1266	Experience with the BGP Protocol	x	√	x	x	x	√	√	√	√	
	IETF	RFC1267	A Border Gateway Protocol 3 (BGP-3)	x	√	x	x	x	√	√	√	√	obsoletes RFC1105,RFC1163
	IETF	RFC1268	Application of the Border Gateway Protocol in the Internet	x	√	x	x	x	√	√	√	√	obsoletes RFC1164/obsoleted by RFC1655
	IETF	RFC1269	Definitions of Managed Objects for the Border Gateway Protocol:Version 3	x	√	x	x	x	√	√	√	√	Obsoleted by RFC4273
	IETF	RFC1397	Default Route Advertisement in BGP2 and BGP3 Version of the Border Gateway Protocol	x	√	x	x	x	√	√	√	√	
	IETF	RFC1403	BGP OSPF Interaction	x	√	x	x	x	√	√	√	√	obsoletes RFC1364
	IETF	RFC4364	BGP/MPLS IP Virtual Private Networks	x	√	x	x	x	√	√	√	√	Updates RFC2547
	IETF	RFC4456	BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP)	x	√	x	x	x	√	√	√	√	obsoletes RFC1966,RFC2796
	IETF	RFC4382	MPLS/BGP Layer 3 Virtual Private Network (VPN) Management Information Base	x	√	x	x	x	√	√	√	√	
	IETF	RFC4486	Subcodes for BGP Cease Notification Message	x	√	x	x	x	√	√	√	√	
	IETF	RFC1654	A Border Gateway Protocol 4 (BGP-4).	x	√	x	x	x	√	√	√	√	obsoleted by RFC1771
	IETF	RFC1655	Application of the Border Gateway Protocol in the Internet	x	√	x	x	x	√	√	√	√	obsoletes RFC1268/obsoleted by RFC1772
	IETF	RFC1656	BGP-4 Protocol Document Roadmap and Implementation Experience	x	√	x	x	x	√	√	√	√	obsoleted by RFC1773
	IETF	RFC1773	Experience with the BGP-4 protocol (obsoletes RFC 1656)	x	√	x	x	x	√	√	√	√	
	IETF	RFC1774	BGP-4 Protocol Analysis	x	√	x	x	x	√	√	√	√	
	IETF	RFC1965	Autonomous System Confederations for BGP	x	√	x	x	x	√	√	√	√	Obsoleted by RFC3065
	IETF	RFC1966	BGP Route-Reflection	x	√	x	x	x	√	√	√	√	obsoleted by RFC4456/updated by RFC2796
	IETF	RFC 1997	BGP Community Attribute	x	√	x	x	x	√	√	√	√	
	IETF	RFC2283	Multiprotocol Extensions for BGP-4	x	√	x	x	x	√	√	√	√	obsoleted by RFC2858
	IETF	RFC 2385	TCP MD5	x	√	x	x	x	√	√	√	√	
	IETF	RFC 4271	A Border Gateway Protocol 4 (BGP-4)	x	√	x	x	x	√	√	√	√	obsoletes RFC1771
	IETF	RFC4272	BGP Security Vulnerabilities Analysis	x	√	x	x	x	√	√	√	√	
	IETF	RFC4273	Definitions of Managed Objects for the Fourth Version of Border Gateway Protocol (BGP-4)	x	√	x	x	x	√	√	√	√	
	IETF	RFC4274	BGP-4 Protocol Analysis	x	√	x	x	x	√	√	√	√	
	IETF	RFC4275	BGP-4 MIB Implementation Survey	x	√	x	x	x	√	√	√	√	
	IETF	RFC4276	BGP 4 Implementation Report	x	√	x	x	x	√	√	√	√	
	IETF	RFC4277	Experience with the BGP-4 Protocol	x	√	x	x	x	√	√	√	√	
	IETF	RFC1772	BGP basic functions support	x	√	x	x	x	√	√	√	√	
	IETF	RFC 1998	An Application of the BGP Community Attribute	x	√	x	x	x	√	√	√	√	
	IETF	RFC 2842	Capabilities Advertisement with BGP-4	x	√	x	x	x	√	√	√	√	obsoleted by RFC3392
	IETF	RFC 2858	Multiprotocol Extensions for BGP-4	x	√	x	x	x	√	√	√	√	obsoletes RFC2283/obsoleted by RFC4760
	IETF	RFC 2918	Route Refresh Capability for BGP-4	x	√	x	x	x	√	√	√	√	
	IETF	RFC 3392	Support BGP capabilities advertisement	x	√	x	x	x	√	√	√	√	obsoletes RFC2842



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	IETF	RFC 2545	BGP support IPV6	x	√	x	x	x	√	√	√	√	
	IETF	RFC 2547	BGP/MPLS VPNs	x	√	x	x	x	√	√	√	√	
	IETF	RFC 1657	basic BGP4 MIB	x	√	x	x	x	√	√	√	√	obsoletes by RFC4273
	IETF	RFC 1700	Assigned Numbers	x	√	x	x	x	√	√	√	√	
	IETF	RFC 1771	A Border Gateway Protocol 4 (BGP-4)	x	√	x	x	x	√	√	√	√	obsoletes RFC1654/obsoleted by RFC4271
	IETF	RFC 2270	Using a Dedicated AS for Sites Homed to a Single Provider	x	√	x	x	x	√	√	√	√	
	IETF	RFC 4905	Encapsulation Methods for Transport of Layer 2 Frames over MPLS Networks	x	√	x	x	x	√	√	√	√	
	IETF	RFC5065	Autonomous System Confederations for BGP	x	√	x	x	x	√	√	√	√	Obsoletes: RFC3065
	IETF	RFC5396	Textual Representation of Autonomous System (AS) Numbers	x	√	x	x	x	√	√	√	√	
	IETF	RFC5492	Capabilities Advertisement with BGP-4	x	√	x	x	x	√	√	√	√	Obsoletes: RFC3392
	IETF	RFC5668	4-Octet AS Specific BGP Extended Community	x	√	x	x	x	√	√	√	√	
DHCP													
	IETF	RFC 0951	Bootstrap Protocol	√	√	√	√	√	√	√	√	√	(Updated by RFC1395, RFC1497, RFC1532, RFC1542)
	IETF	RFC1533	DHCP Options and BOOTP Vendor Extensions Class-identifier	√	√	√	√	√	√	√	√	√	
	IETF	RFC 1534	Interoperation Between DHCP and BOOTP	√	√	√	√	√	√	√	√	√	
	IETF	RFC 1542	Clarifications and Extensions for the Bootstrap Protocol	√	√	√	√	√	√	√	√	√	
	IETF	RFC 2131	Dynamic Host Configuration Protocol.	√	√	√	√	√	√	√	√	√	
	IETF	RFC 2132	DHCP Options and BOOTP Vendor Extensions	√	√	√	√	√	√	√	√	√	
	IETF	RFC 3046	DHCP Option82	√	√	√	√	√	√	√	√	√	
	IETF	RFC3396	Encoding Long Options in the Dynamic Host Configuration Protocol (DHCPv4)	√	√	√	√	√	√	√	√	√	
DNS													
	IETF	RFC 1034	Domain Names - Concepts and Facilities	√	√	√	√	√	√	√	√	√	
	IETF	RFC 1035	Domain Names - Implementation and Specification	√	√	√	√	√	√	√	√	√	
Ethernet													
	IETF	RFC0826	Ethernet Address Resolution Protocol: Or converting network protocol addresses to 48-bit Ethernet address for transmission on Ethernet hardware (ARP)	√	√	√	√	√	√	√	√	√	
	IETF	RFC1042	A Standard for the Transmission of IP Datagrams over IEEE 802 Networks	√	√	√	√	√	√	√	√	√	
802.1x													
	IETF	RFC2284	PPP Extensible Authentication Protocol (EAP)	√	√	√	√	√	√	√	√	√	
	IETF	RFC2716	PPP EAP-TLS Authentication Protocol	√	√	√	√	√	√	√	√	√	
	IETF	RFC2246	TLS Protocol	√	√	√	√	√	√	√	√	√	
	IETF	RFC3748	Extensible Authentication Protocol (EAP)	√	√	√	√	√	√	√	√	√	
MFF													
	IETF	RFC4562	MAC-Forced Forwarding	√	√	√	√	√	√	√	√	√	
MPLS VPN													
	IETF	RFC 2764	A Framework for IP Based Virtual Private Networks.	x	x	x	x	x	x	√	√	x	
	IETF	RFC 2796	BGP Route Reflection - An Alternative to Full Mesh IBGP	x	x	x	x	x	x	√	√	x	Obsoletes RFC1996
	IETF	RFC 2917	A Core MPLS IP VPN Architecture	x	x	x	x	x	x	√	√	x	
	IETF	RFC 2918	Route Refresh Capability for BGP-4	x	x	x	x	x	x	√	√	x	
	IETF	RFC 3031	Multiprotocol Label Switching Architecture	x	x	x	x	x	x	√	√	x	
	IETF	RFC 5036	LDP Specification	x	x	x	x	x	x	√	√	x	
	IETF	draft-marti-ni-2circuit-encap-mpls-xx.txt	Encapsulation Methods for Transport of Layer 2 Frames Over IP and MPLS Networks	x	x	x	x	x	x	√	√	x	



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	IETF	draft-marti-12circuit-trans-mpls-xx.txt	Transport of Layer 2 Frames Over MPLS	x	x	x	x	x	x	√	√	x	
	IETF	RFC4664	Framework for Layer 2 Virtual Private Networks (L2VPNs)	x	x	x	x	x	x	√	√	x	
	IETF	RFC4665	Service Requirements for Layer 2 Provider-Provisioned Virtual Private Networks	x	x	x	x	x	x	√	√	x	
	IETF	RFC3270	Multi-Protocol Label Switching (MPLS) Support of Differentiated Services	x	x	x	x	x	x	√	√	x	
	IETF	RFC3469	Framework for Multi-Protocol Label Switching (MPLS)-based Recovery	x	x	x	x	x	x	√	√	x	
	IETF	RFC3443	Time To Live (TTU) Processing in Multi-Protocol Label Switching (MPLS) Networks	x	x	x	x	x	x	√	√	x	Updates RFC3032
	IETF	RFC3479	Fault Tolerance for the Label Distribution Protocol (LDP)	x	x	x	x	x	x	√	√	x	
	IETF	RFC3032	MPLS Label Stack Encoding	x	x	x	x	x	x	√	√	x	updated by RFC 3443,RFC 4182
	IETF	RFC3036	LDP Specification	x	x	x	x	x	x	√	√	x	
	IETF	RFC3037	LDP Applicability	x	x	x	x	x	x	√	√	x	
	IETF	RFC4182	Removing a Restriction on the use of MPLS Explicit NULL	x	x	x	x	x	x	√	√	x	updates RFC 3032
	IETF	draft-ietf-mpls-lsp-ping-version-09.txt/RFC 4379	Detecting Multi-Protocol Label Switched (MPLS) Data Plane Failures	x	x	x	x	x	x	√	√	x	updates RFC 1122
	IETF	RFC4906	Transport of Layer 2 Frames Over MPLS	x	x	x	x	x	x	√	√	x	
	IETF	RFC4221	Multiprotocol Label Switching (MPLS) Management Overview	x	x	x	x	x	x	√	√	x	
	IETF	RFC3811	Definitions of Textual Conventions (TCs) for Multiprotocol Label Switching (MPLS) Management	x	x	x	x	x	x	√	√	x	
	IETF	RFC1186	Definitions of Textual Conventions (TCs) for Multiprotocol Label Switching (MPLS) Management	x	x	x	x	x	x	√	√	x	
	IETF	RFC3215	LDP State Machine	x	x	x	x	x	x	√	√	x	
	IETF	RFC3988	Maximum Transmission Unit Signalling Extensions for the Label Distribution Protocol	x	x	x	x	x	x	√	√	x	
	IETF	draft-ietf-mpls-lsp-extensions-00.txt ==== RFC3988 2005-12-07	MTU Signalling Extensions for LDP	x	x	x	x	x	x	√	√	x	
	IETF	RFC4447	Pseudowire Setup and Maintenance Using the Label Distribution Protocol (LDP)	x	x	x	x	x	x	√	√	x	
	IETF	RFC4448	Encapsulation Methods for Transport of Ethernet over MPLS Networks	x	x	x	x	x	x	√	√	x	
	IETF	RFC5082	The Generalized TTL Security Mechanism (GTSM)	x	x	x	x	x	x	√	√	x	Update RFC3682
	IETF	draft-ietf-mpls-lsp-mib-09	Definitions of Managed Objects for the Multiprotocol Label Switching, Label Distribution Protocol (LDP)	x	x	x	x	x	x	√	√	x	
	IETF	MPLS-MPLS-EXTENSION-MIB	This MIB contains private managed object and notification trap definitions for the Multiprotocol Label Switching (MPLS)	x	x	x	x	x	x	√	√	x	
	IETF	draft-ietf-mpls-icmp-08	ICMP Extensions for Multiprotocol Label Switching	x	x	x	x	x	x	√	√	x	
	IETF	draft-decrene-mpls-lsp-interarea-a-04.txt	LDP extension for Inter-Area LSP	x	x	x	x	x	x	√	√	x	
	IETF	draft-ietf-mpls-remote-lsp-ping-00	Proxy LSP Ping	x	x	x	x	x	x	√	√	x	
PWE3													
	IETF	RFC3916	Requirements for Pseudo-Wire Emulation Edge-to-Edge (PWE3)	x	x	x	x	x	x	√	√	x	
	IETF	RFC3985	PWE3 Architecture	x	x	x	x	x	x	√	√	x	
	IETF	RFC4385	Pseudowire Emulation Edge-to-Edge (PWE3) Control Word for Use over an MPLS PSN	x	x	x	x	x	x	√	√	x	
	IETF	RFC4446	IANA Allocations for Pseudowire Edge to Edge Emulation (PWE3)	x	x	x	x	x	x	√	√	x	
	IETF	draft-ietf-pwe3-control-protocol-15.txt	Pseudowire Setup and Maintenance Using the Label Distribution Protocol (LDP)	x	x	x	x	x	x	√	√	x	
	IETF	draft-marti-pwe3-pw-switching-00.txt	Pseudo Wire Switching	x	x	x	x	x	x	√	√	x	
	IETF	draft-ietf-pwe3-vccv-03.txt	Pseudowire Virtual Circuit Connectivity Verification (VCCV): A Control Channel for Pseudowires	x	x	x	x	x	x	√	√	x	
	IETF	draft-ietf-12vpn-vpls-ls	Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling	x	x	x	x	x	x	√	√	x	



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			Hornig. Apr-01-1984. (Format: TXT=5697 bytes) (Also: STD0041) (Status: STANDARD)										
	IETF	RFC0950	Internet Standard Subnetting Procedure	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC0951	Bootstrap Protocol (Updated by RFC1395, RFC1497, RFC1532, RFC1542)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1071	Computing the Internet Checksum	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1122	Requirements for Internet Hosts - Communication Layers.	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1141	Incremental updating of the Internet checksum	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1144	Compressing TCP/IP headers for low-speed serial links. V. Jacobson. Feb-01-1990. (Format: TXT=120959, PS=534729, PDF=255616 bytes) (Status: PROPOSED STANDARD)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1200	IAB official protocol standards	✓	✓	✓	✓	✓	✓	✓	✓	✓	obsoletes RFC1140/obsoleted by RFC1250
	IETF	RFC1206	FYI on Questions and Answers: Answers to commonly asked "new Internet user" questions.	✓	✓	✓	✓	✓	✓	✓	✓	✓	obsoletes RFC1177/obsoleted by RFC1325
	IETF	RFC1207	FYI on Questions and Answers: Answers to commonly asked "experienced Internet user" questions	✓	✓	✓	✓	✓	✓	✓	✓	✓	Also FYI0007
	IETF	RFC1208	Glossary of networking terms	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1210	Network and infrastructure user requirements for transatlantic research collaboration:	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1211	Problems with the maintenance of large mailing lists	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1216	Gigabit network economics and paradigm shifts	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1219	On the assignment of subnet numbers.	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1242	Benchmarking terminology for network interconnection devices	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1250	IAB Official Protocol Standards	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1537	Common DNS Data File Configuration Errors	✓	✓	✓	✓	✓	✓	✓	✓	✓	obsoleted by RFC1912
	IETF	RFC1624	Computation of the Internet Checksum via Incremental Update	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1878	Variable Length Subnet Table For IPv4	✓	✓	✓	✓	✓	✓	✓	✓	✓	obsoletes RFC1860
	IETF	RFC1918	Address Allocation for Private Internets	✓	✓	✓	✓	✓	✓	✓	✓	✓	obsoletes RFC1627, RFC1597
	IETF	RFC1930	Guidelines for creation, selection, and registration of an Autonomous System (AS)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC2267	Network Ingress Filtering: Defeating Denial of Service Attacks which employ IP Source Address Spoofing	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC2270	Using a Dedicated AS for Sites Homed to a Single Provider	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC2285	Benchmarking Terminology for LAN Switching Devices	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC2519	A Framework for Inter-Domain Route Aggregation	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC2544	Benchmarking Methodology for Network Interconnect Devices	✓	✓	✓	✓	✓	✓	✓	✓	✓	obsoletes RFC1944
	IETF	RFC2680	A One-way Packet Loss Metric for IPPM	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC2681	A Round-trip Delay Metric for IPPM	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC2694	DNS extensions to Network Address Translators (DNS_ALG)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC3086	Definition of Differentiated Services Per Domain Behaviors and Rules for their Specification	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC3587	An Aggregatable Global Unicast Address Format	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC3636	Definitions of Managed Objects for IEEE 802.3 Medium Attachment Units (MAUs).	✓	✓	✓	✓	✓	✓	✓	✓	✓	obsoletes: RFC2668, RFC1515
	IETF	RFC4223	Reclassification of RFC1863 to Historic	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IPv6													
	IETF	RFC1886	DNS Extensions to Support IP version 6	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	draft-ietf-n gtrans-isat ap-20.txt	Intra-Site Automatic Tunnel Addressing Protocol(ISATAP)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1887	An Architecture for IPv6 Unicast Address Allocation	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	IETF	RFC1970	Neighbor Discovery for IP Version 6 (IPv6)	✓	✓	✓	✓	✓	✓	✓	✓	✓	obsoleted by RFC2461
	IETF	RFC2373	IP Version 6 Addressing Architecture	✓	✓	✓	✓	✓	✓	✓	✓	✓	obsoletes RFC1884/obsoleted by RFC3513



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Standard Classification	Standards Organization	Standard Number	Standard title	S27	S37EI	S37SI	S5700LI	S5700SI	S5700EI	S5710EI	S57HI	S67EI	Notes
	IETF	RFC2473	Generic Packet Tunneling in IPv6 Specification	√	√	√	√	√	√	√	√	√	
	IETF	RFC2374	An IPv6 Aggregatable Global Unicast Address Format	√	√	√	√	√	√	√	√	√	obsoletes RFC2073/obsoleted by RFC3587
	IETF	RFC2474	Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	√	√	√	√	√	√	√	√	√	
	IETF	RFC2375	An Architecture for Differentiated Services	√	√	√	√	√	√	√	√	√	
	IETF	RFC2452	MIB for TCP6	√	√	√	√	√	√	√	√	√	
	IETF	RFC2460	Internet Protocol, Version 6 (IPv6) Specification	√	√	√	√	√	√	√	√	√	
	IETF	RFC2461	Neighbor Discovery for IP Version 6 (IPv6)	√	√	√	√	√	√	√	√	√	
	IETF	RFC2462	IPv6 Stateless Address Auto configuration	√	√	√	√	√	√	√	√	√	
	IETF	RFC2463	Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification	√	√	√	√	√	√	√	√	√	obsoletes RFC2073/obsoleted by RFC3587
	IETF	RFC2464	Transmission of IPv6 Packets over Ethernet Networks	√	√	√	√	√	√	√	√	√	
	IETF	RFC2465	Management Information Base for IP Version	√	√	√	√	√	√	√	√	√	
	IETF	RFC2466	MIB for ICMP6	√	√	√	√	√	√	√	√	√	
	IETF	RFC2545	BGP support IPv6	√	√	√	√	√	√	√	√	√	
	IETF	RFC2553	Basic Socket Interface Extensions for IPv6	√	√	√	√	√	√	√	√	√	
	IETF	RFC2711	IPv6 Router Alert Option	√	√	√	√	√	√	√	√	√	
	IETF	RFC2893	Transition Mechanisms for IPv6 Hosts and Routers	√	√	√	√	√	√	√	√	√	
	IETF	RFC2992	Analysis of an Equal-Cost Multi-Path Algorithm	√	√	√	√	√	√	√	√	√	
	IETF	RFC3056	Connection of IPv6 Domains via IPv4 Clouds	√	√	√	√	√	√	√	√	√	obsoletes RFC2373
	IETF	RFC3363	Representing Internet Protocol version 6 (IPv6) Addresses in the Domain Name System (DNS)	√	√	√	√	√	√	√	√	√	
	IETF	RFC3493	Basic Socket Interface Extensions for IPv6	√	√	√	√	√	√	√	√	√	
	IETF	RFC3542	Advanced Sockets API for IPv6	√	√	√	√	√	√	√	√	√	
	IETF	RFC4213	Basic Transition Mechanisms for IPv6 Hosts and Router	√	√	√	√	√	√	√	√	√	
	IETF	RFC4291	IP Version 6 Addressing Architecture	√	√	√	√	√	√	√	√	√	
	IETF	RFC4443	Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification	√	√	√	√	√	√	√	√	√	
	IETF	RFC4861	Neighbor Discovery for IP Version 6	√	√	√	√	√	√	√	√	√	obsoletes: RFC2461
	IETF	RFC4862	IPv6 Stateless Address Autoconfiguration	√	√	√	√	√	√	√	√	√	
	IETF	RFC5095	Deprecation of Type 0 Routing Headers in IPv6	x	√	x	x	x	√	√	√	√	Updates:RFC2460
IPv6 Routing													
	IETF	RFC3956	Embedding the Rendezvous Point (RP) Address in an IPv6 Multicast Address	x	√	x	x	x	√	√	√	√	
	IETF	RFC4760	Multiprotocol Extensions for BGP-4	x	√	x	x	x	√	√	√	√	
	IETF	RFC4798	Connecting IPv6 Islands over IPv4 MPLS using IPv6 Provider Edge Routers (6PE)	x	√	x	x	x	√	√	√	√	
	IETF	RFC5187	OSPFv3 Graceful Restart	x	√	x	x	x	√	√	√	√	
	IETF	RFC5340	OSPF for IPv6	x	√	x	x	x	√	√	√	√	
IS-IS													
	IETF	RFC 1142	OSI IS-IS Intra-domain Routing Protocol	x	√	x	x	x	√	√	√	√	
	IETF	RFC 1195	Use of OSI IS-IS for Routing in TCP/IP and Dual Environments	x	√	x	x	x	√	√	√	√	
	IETF	RFC 2104	HMAC: Keyed-Hashing for Message Authentication	x	√	x	x	x	√	√	√	√	
	IETF	RFC 2763	Dynamic Hostname Exchange Mechanism for IS-IS	x	√	x	x	x	√	√	√	√	
	IETF	RFC 2966	Domain-wide Prefix Distribution with Two-Level IS-IS	x	√	x	x	x	√	√	√	√	
	IETF	RFC 2973	IS-IS Mesh Groups	x	√	x	x	x	√	√	√	√	
	IETF	RFC 3277	IS-IS Transient Blackhole Avoidance	x	√	x	x	x	√	√	√	√	
	IETF	RFC 3359	Reserved Type, Length and Value (TLV) Codepoints in Intermediate System to Intermediate System	x	√	x	x	x	√	√	√	√	



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Standard Classification	Standards Organization	Standard Number	Standard title	S27	S37EI	S37SI	S5700LI	S5700SI	S5700EI	S5710EI	S57HI	S67EI	Notes
	IETF	RFC2578	Structure of Management Information Version 2 (SMIPv2)	√	√	√	√	√	√	√	√	√	
	IETF	RFC2579	Textual conventions for SMIPv2	√	√	√	√	√	√	√	√	√	
	IETF	RFC2580	Conformance Statements for SMIPv2	√	√	√	√	√	√	√	√	√	
	IETF	RFC2665	Definitions of Managed Objects for the Ethernet-like Interface Types	√	√	√	√	√	√	√	√	√	obsoletes RFC2358, obsoleted by RFC3635
	IETF	RFC2668	Definitions of Managed Objects for IEEE 802.3 Medium Attachment Units (MAUs)	√	√	√	√	√	√	√	√	√	obsoletes RFC2239, obsoleted by RFC3636
	IETF	RFC2674	Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions	√	√	√	√	√	√	√	√	√	
	IETF	RFC2737	Entity MIB (Version 2)	√	√	√	√	√	√	√	√	√	obsoletes RFC2037, obsoleted by RFC4133
	IETF	RFC2819	Remote Network Monitoring Management Information Base	√	√	√	√	√	√	√	√	√	
	IETF	RFC2863	The Interfaces Group MIB	√	√	√	√	√	√	√	√	√	
	IETF	RFC2895	Remote Network Monitoring MIB Protocol Identifier Reference	√	√	√	√	√	√	√	√	√	
	IETF	RFC3201	Circuit to Interface MIB	√	√	√	√	√	√	√	√	√	
	IETF	RFC3411	An Architecture for Describing Simple Network Management Protocol (SNMP) management frameworks	√	√	√	√	√	√	√	√	√	(Obsoletes RFC2571) (Also STD0062), support 2571
	IETF	RFC3412	Message processing and dispatching for Simple Network Management Protocol (SNMP)	√	√	√	√	√	√	√	√	√	(Obsoletes RFC2572) (Also STD0062), support 2572
	IETF	RFC3413	Simple Network Management Protocol (SNMP) Applications	√	√	√	√	√	√	√	√	√	(Obsoletes RFC2573) (Also STD0062), support 2573
	IETF	RFC3414	User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)	√	√	√	√	√	√	√	√	√	(Obsoletes RFC2574) (Also STD0062), support 2574
	IETF	RFC3415	View-based Access control model (VACM) for the Simple Network Management Protocol (SNMP)	√	√	√	√	√	√	√	√	√	(Obsoletes RFC2575) (Also STD0062), support 2575
	IETF	RFC3416	Version 2 of The Protocol Operations for the Simple Network Management Protocol (SNMP)	√	√	√	√	√	√	√	√	√	(Obsoletes RFC1905), support 2578
	IETF	RFC3417	Transport Mappings for the Simple Network Management Protocol (SNMP)	√	√	√	√	√	√	√	√	√	(Obsoletes RFC1906) (Updated by RFC4789) (Also STD0062)
	IETF	RFC3418	Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)	√	√	√	√	√	√	√	√	√	(Obsoletes RFC1907) (Also STD0062), support 1907
	IETF	RFC3512	Configuring Networks and Devices with Simple Network Management Protocol (SNMP).	√	√	√	√	√	√	√	√	√	
	IETF	RFC3535	Overview of the 2002 IAB Network Management Workshop.	√	√	√	√	√	√	√	√	√	
	IETF	RFC3577	Introduction to the Remote Monitoring (RMON) Family of MIB Modules	√	√	√	√	√	√	√	√	√	
	IETF	RFC3593	Textual Conventions for MIB Modules Using Performance History Based on 15 Minute Intervals	√	√	√	√	√	√	√	√	√	obsoletes: RFC2493
	IETF	RFC3635	Definitions of Managed Objects for the Ethernet-like Interface Types	√	√	√	√	√	√	√	√	√	obsoletes: RFC2665
	IETF	RFC3737	IANA Guidelines for the Registry of Remote Monitoring (RMON) MIB modules	√	√	√	√	√	√	√	√	√	
	IETF	RFC3812	Multiprotocol Label Switching (MPLS) Traffic Engineering (TE) Management Information Base (MIB)	√	√	√	√	√	√	√	√	√	
	IETF	RFC4001	Textual Conventions for Internet Network Addresses	√	√	√	√	√	√	√	√	√	
	IETF	RFC4292	IP Forwarding Table MIB	√	√	√	√	√	√	√	√	√	
	IETF	RFC4293	Management Information Base for the Internet Protocol (IP)	√	√	√	√	√	√	√	√	√	obsoletes RFC2011, RFC2465, RFC2466
	IETF	RFC4363	Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual LAN Extensions	√	√	√	√	√	√	√	√	√	
	IETF	RFC4560	Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations	√	√	√	√	√	√	√	√	√	
OSPF													
	IETF	RFC1131	OSPF specification	√	√	x	x	x	√	√	√	√	obsoleted by RFC1247
	IETF	RFC1583	OSPF Version 2	x	√	x	x	x	√	√	√	√	obsoletes RFC1247, obsoleted by RFC2178
	IETF	RFC1245	OSPF Protocol Analysis	x	√	x	x	x	√	√	√	√	



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Standard Classification	Standards Organization	Standard Number	Standard title	S27	S37EI	S37SI	S5700LI	S5700SI	S5700EI	S5710EI	S57HI	S67EI	Notes
	IETF	RFC1246	Experience with the OSPF Protocol	x	√	x	x	x	√	√	√	√	
	IETF	RFC1247	OSPF Version 2	x	√	x	x	x	√	√	√	√	obsoletes RFC1131/obsoleted by RFC1583
	IETF	RFC1248	OSPF Version 2 Management Information Base	x	√	x	x	x	√	√	√	√	obsoletes RFC 1252,RFC 1349
	IETF	RFC1252	OSPF Version 2 Management Information Base	x	√	x	x	x	√	√	√	√	obsoletes RFC1248/obsoleted by RFC1253
	IETF	RFC1253	OSPF Version 2 Management Information Base	x	√	x	x	x	√	√	√	√	obsoletes RFC1252/obsoleted by RFC1850
	IETF	RFC 1587	The OSPF NSSA Option	x	√	x	x	x	√	√	√	√	obsoleted by RFC3101
	IETF	RFC 1765	OSPF Database Overflow	x	√	x	x	x	√	√	√	√	
	IETF	RFC 1850	OSPF Version 2 Management Information Base	x	√	x	x	x	√	√	√	√	
	IETF	RFC 1981	Path MTU Discovery for IP version 6	x	√	x	x	x	√	√	√	√	
	IETF	RFC 2328	OSPF Version 2	x	√	x	x	x	√	√	√	√	obsoletes RFC2178
	IETF	RFC 2329	OSPF Standardization Report	x	√	x	x	x	√	√	√	√	
	IETF	RFC 3101	The OSPF NSA Option	x	√	x	x	x	√	√	√	√	obsoletes RFC1587
	IETF	RFC 3513	Internet Protocol Version 6 (IPv6) Addressing Architecture	x	√	x	x	x	√	√	√	√	
	IETF	draft-ietf-ospf-ls-00	OSPF Link-local Signaling	x	√	x	x	x	√	√	√	√	
	IETF	draft-ietf-ospf-oob-resync-01	OSPF Out-of-band LSDB resynchronization	x	√	x	x	x	√	√	√	√	
	IETF	draft-ietf-ospf-restart-01	OSPF Restart Signaling	x	√	x	x	x	√	√	√	√	
QoS													
	IETF	RFC 1349	Type of Service in the Internet Protocol Suite	√	√	√	√	√	√	√	√	√	
	IETF	RFC 2309	Recommendations on Queue Management and Congestion Avoidance in the Internet.	√	√	√	√	√	√	√	√	√	
	IETF	RFC2386	A Framework for QoS-based Routing in the Internet	√	√	√	√	√	√	√	√	√	
	IETF	RFC 2474	Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers.	√	√	√	√	√	√	√	√	√	
	IETF	RFC 2475	An Architecture for Differentiated Service	√	√	√	√	√	√	√	√	√	
	IETF	RFC 2597	Assured Forwarding PHB Group	√	√	√	√	√	√	√	√	√	
	IETF	RFC 2598	An Expedited Forwarding PHB	√	√	√	√	√	√	√	√	√	
	IETF	RFC 2697	A Single Rate Three Color Marker	√	√	√	√	√	√	√	√	√	
	IETF	RFC 2698	A Two Rate Three Color Marker	√	√	√	√	√	√	√	√	√	
	IETF	RFC 3168	The Addition of Explicit Congestion Notification (ECN) to IP	√	√	√	√	√	√	√	√	√	
	IETF	RFC 3246	An Expedited Forwarding PHB (Per-Hop Behavior)	√	√	√	√	√	√	√	√	√	
	IETF	RFC3248	A Delay Bound alternative revision of RFC2598	√	√	√	√	√	√	√	√	√	
	IETF	RFC3260	New Terminology and Clarifications for Diffserv	√	√	√	√	√	√	√	√	√	Updates RFC2474,RFC2475,RFC2597
	IETF	RFC3290	An Informal Management Model for Diffserv Routers	√	√	√	√	√	√	√	√	√	
	IETF	RFC4115	A Differentiated Service Two-Rate, Three-Color Marker with Efficient Handling of in-Profile Traffic	√	√	√	√	√	√	√	√	√	
	DSL Forum	DSL Forum	DSL Evolution – Architecture Requirements for the Support of QoS-Enabled IP Services	√	√	√	√	√	√	√	√	√	
RIP													
	IETF	RFC1058	Routing Information Protocol	x	√	√	x	√	√	√	√	√	
	IETF	RFC1388	RIP Version 2 Carrying Additional Information	x	√	√	x	√	√	√	√	√	
	IETF	RFC1389	RIP Version 2 MIB Extension	x	√	√	x	√	√	√	√	√	
	IETF	RFC 1721	RIP Version 2 Protocol Analysis	x	√	√	x	√	√	√	√	√	
	IETF	RFC 1722	RIP Version 2 Protocol Applicability Statement	x	√	√	x	√	√	√	√	√	
	IETF	RFC 1723	RIP Version 2 Carrying Additional Information	x	√	√	x	√	√	√	√	√	
	IETF	RFC 1724	RIP Version 2 MIB Extension	x	√	√	x	√	√	√	√	√	



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