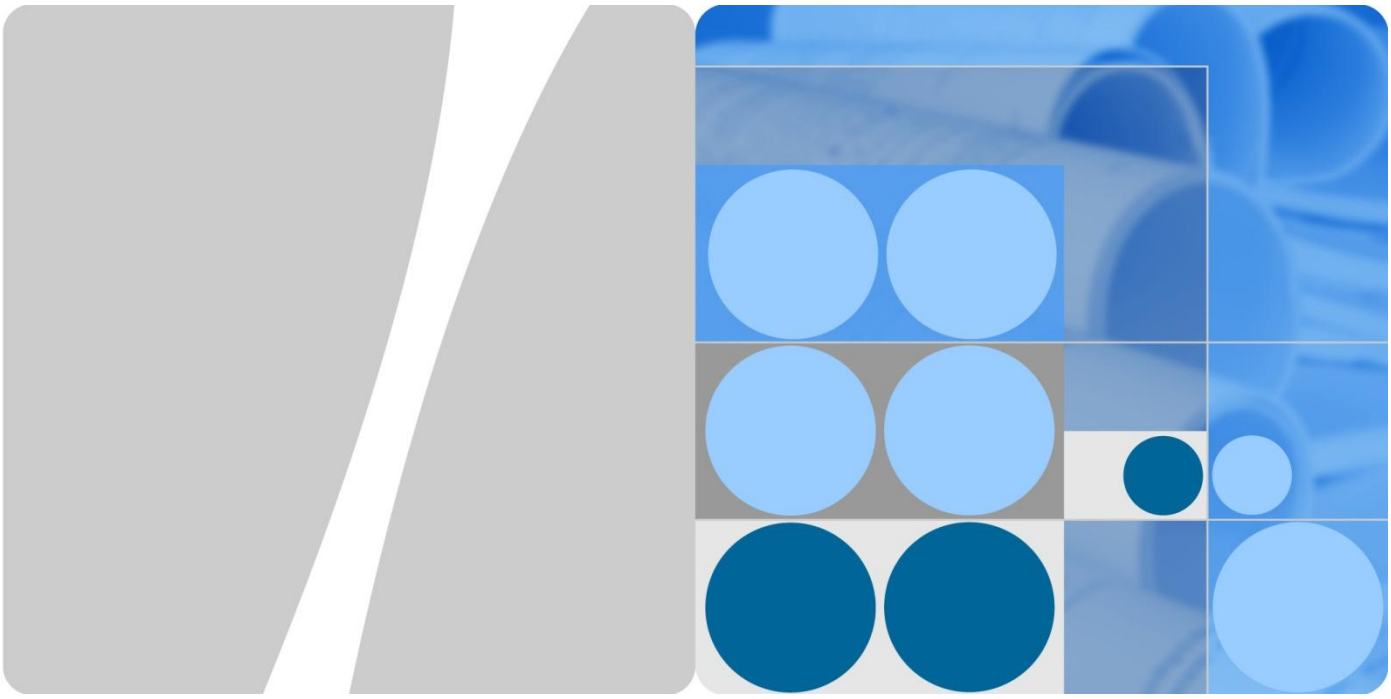

S9700&S7700 Standard and Protocol Comply Table

Issue 01

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HUAWEI TECHNOLOGIES CO., LTD.

S9700&S7700 Standard and Protocol Comply Table

Standard Classification	Standards Organization	Standard Number	Standard title	S9700 Compliance	S7700 Compliance	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)	√	√	
	IETF	RFC1492	An Access Control Protocol, Sometimes Called TACACS	√	√	
	IETF	RFC3162	RADIUS and IPv6	√	√	
	IETF	RFC2516	A Method for Transmitting PPP Over Ethernet (PPPoE)	√	√	
	IETF	RFC4649	Dynamic Host Configuration Protocol for IPv6 (DHCPv6) Relay Agent Remote-ID Option	√	√	
	IETF	RFC3898	Network Information Service (NIS) Configuration Options for Dynamic Host Configuration Protocol for IPv6 (DHCPv6)	√	√	
	IETF	RFC3646	DNS Configuration options for Dynamic Host Configuration Protocol for IPv6 (DHCPv6)	√	√	
	IETF	RFC4242	Information Refresh Time Option for Dynamic Host Configuration Protocol for IPv6 (DHCPv6)	√	√	
	IETF	RFC3579	RADIUS (Remote Authentication Dial In User Service) Support For Extensible Authentication Protocol (EAP)	√	√	
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-bfd-base-05	Bidirectional Forwarding Detection	√	√	
	IETF	draft-ietf-bfd-base-06	Bidirectional Forwarding Detection	√	√	
	IETF	draft-ietf-bfd-base-07	Bidirectional Forwarding Detection	√	√	
	IETF	draft-ietf-bfd-base-09	Bidirectional Forwarding Detection	√	√	
	IETF	draft-ietf-bfd-v4v6-1hop-04	BFD for IPv4 and IPv6 (Single Hop)	√	√	
	IETF	draft-ietf-bfd-v4v6-1hop-05	BFD for IPv4 and IPv6 (Single Hop)	√	√	
	IETF	draft-ietf-bfd-v4v6-1hop-07	BFD for IPv4 and IPv6 (Single Hop)	√	√	
	IETF	draft-ietf-bfd-v4v6-1hop-08	BFD for IPv4 and IPv6 (Single Hop)	√	√	
	IETF	draft-ietf-bfd-v4v6-1hop-09	BFD for IPv4 and IPv6 (Single Hop)	√	√	
	IETF	draft-ietf-bfd-v4v6-1hop-10	BFD for IPv4 and IPv6 (Single Hop)	√	√	
	IETF	draft-ietf-bfd-mpls-02	BFD For MPLS LSPs	√	√	
	IETF	draft-ietf-bfd-mpls-03	BFD For MPLS LSPs	√	√	
	IETF	draft-ietf-bfd-mpls-07	BFD For MPLS LSPs	√	√	
	IETF	draft-ietf-bfd-multihop-06	BFD for Multihop Paths	√	√	

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	IETF	draft-ietf-bfd-multihop-07	BFD for Multihop Paths	√	√	
	IETF	draft-ietf-bfd-multihop-08	BFD for Multihop Paths	√	√	
	IETF	draft-ietf-bfd-generic-02	Generic Application of BFD	√	√	
	IETF	draft-ietf-bfd-generic-03	Generic Application of BFD	√	√	
	IETF	draft-ietf-bfd-generic-04	Generic Application of BFD	√	√	
	IETF	draft-ietf-bfd-generic-05	Generic Application of BFD	√	√	
BGP						
	IETF	draft-chen-bgp-prefix-orf-01	Support ORF Based on Prefix	√	√	
	IETF	draft-ietf-idmr-bgp-mcast-attr-00	bgp support the multicast	√	√	
	IETF	draft-ietf-idr-bgp4-mib-10	BGP Core MIB	√	√	
	IETF	draft-ietf-idr-bgp-ext-communities-05	Extended Community Attribute	√	√	
	IETF	draft-ietf-idr-cap-neg-01.txt	Capabilities Negotiation with BGP4	√	√	
	IETF	draft-ietf-idr-restart-08	Supprot Graceful Restart Mechanism for BGP-4	√	√	
	IETF	draft-ietf-idr-route-filter-06	Support Cooperative Route Filtering Capability for BGP-4.	√	√	
	IETF	draft-ietf-ppvpn-rfc2547bis-01	BGP/MPLS VPN Arch	√	√	
	IETF	draft-kato-bgp-ipv6-link-local-00.txt	BGP4+ Peering Using IPv6 Link-local Address	√	√	
	IETF	draft-martini-l2circuit-trans-mpls-xx	Transport of Layer 2 Frames Over MPLS	√	√	
	IETF	draft-ramachandra-bgp-ext-communities-04	Extended Community Attribute	√	√	
	IETF	RFC 1657	basic BGP4 MIB	√	√	obsoleted by RFC4273
	IETF	RFC 1700	Assigned Numbers	√	√	
	IETF	RFC 1997	BGP Community Attribute	√	√	
	IETF	RFC 1998	An Application of the BGP Community Attribute	√	√	
	IETF	RFC 2385	TCP MD5	√	√	
	IETF	RFC 2439	BGP Route Flap Damping	√	√	
	IETF	RFC 2545	BGP support IPV6	√	√	
	IETF	RFC 2547	BGP/MPLS VPNs	√	√	
	IETF	RFC 2796	BGP Route Reflection	√	√	Obsoletes RFC1996
	IETF	RFC 2858	Multiprotocol Extensions for BGP-4	√	√	obsoletes RFC2283/obsoleted by RFC4760
	IETF	RFC 2918	Route Refresh Capability for BGP-4	√	√	
	IETF	RFC 3065	Support AS confederation	√	√	obsoletes RFC1965
	IETF	RFC 3107	Support BGP carry Label for MPLS	√	√	
	IETF	RFC 3392	Support BGP capabliteis advertisement	√	√	obsoletes RFC2842
	IETF	RFC 4271	A Border Gateway Protocol 4 (BGP-4)	√	√	obsoletes RFC1771
	IETF	RFC 4905	Encapsulation Methods for Transport of Layer 2 Frames over MPLS Networks	√	√	
	IETF	RFC1105	Border Gateway Protocol BGP	√	√	obsoleted by RFC1163,RFC1267
	IETF	RFC1163	A Border Gateway Protocol (BGP)	√	√	obsoletes RFC1105/obsoleted by RFC1267
	IETF	RFC1164	Application of the Border Gateway Protocol in the Internet	√	√	obsoleted by RFC 1268
	IETF	RFC1265	BGP Protocol Analysis	√	√	
	IETF	RFC1266	Experience with the BGP Protocol	√	√	
	IETF	RFC1267	A Border Gateway Protocol 3 (BGP-3)	√	√	obsoletes RFC1105,RFC1163
	IETF	RFC1268	Application of the Border Gateway Protocol in the Internet	√	√	obsoletes RFC1164/obsoleted by RFC1655
	IETF	RFC1269	Definitions of Managed Objects for the Border Gateway Protocol:Version 3	√	√	obsoleted by RFC4273
	IETF	RFC1397	Default Route Advertisement in BGP2 and BGP3 Version of the Border Gateway Protocol	√	√	

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	IETF	RFC1403	BGP OSPF Interaction	√	√	obsoletes RFC1364
	IETF	RFC1654	A Border Gateway Protocol 4 (BGP-4).	√	√	obsoleted by RFC1771
	IETF	RFC1655	Application of the Border Gateway Protocol in the Internet	√	√	obsoletes RFC 1268/ obsoleted by RFC 1772
	IETF	RFC1656	BGP-4 Protocol Document Roadmap and Implementation Experience	√	√	obsoleted by RFC 1773
	IETF	RFC1771	A Border Gateway Protocol 4 (BGP-4)	√	√	obsoletes RFC 1654/ obsoleted by RFC 4271
	IETF	RFC1772	BGP basic functions support	√	√	
	IETF	RFC1773	Experience with the BGP-4 protocol (obsoletes RFC 1656)	√	√	
	IETF	RFC1774	BGP-4 Protocol Analysis	√	√	
	IETF	RFC1930	Guidelines for creation, selection, and registration of an Autonomous System (AS)	√	√	
	IETF	RFC1965	Autonomous System Confederations for BGP	√	√	Obsoleted by RFC3065
	IETF	RFC1966	BGP Route-Reflection	√	√	obsoleted by RFC 4456/updated by RFC 2796
	IETF	RFC2270	Using a Dedicated AS for Sites Homed to a Single Provider	√	√	
	IETF	RFC2283	Multiprotocol Extensions for BGP-4	√	√	obsoleted by RFC 2858
	IETF	RFC2519	A Framework for Inter-Domain Route Aggregation	√	√	
	IETF	RFC2842	Capabilities Advertisement with BGP-4	√	√	obsoleted by RFC 3392
	IETF	RFC3562	Key Management Considerations for the TCP MD5 Signature Option	√	√	
	IETF	RFC3882	Configuring BGP to Block Denial-of-Service Attacks	√	√	
	IETF	RFC4272	BGP Security Vulnerabilities Analysis	√	√	
	IETF	RFC4273	Definitions of Managed Objects for the Fourth Version of Border Gateway Protocol (BGP-4)	√	√	
	IETF	RFC4274	BGP-4 Protocol Analysis	√	√	
	IETF	RFC4275	BGP-4 MIB Implementation Survey	√	√	
	IETF	RFC4276	BGP 4 Implementation Report	√	√	
	IETF	RFC4277	Experience with the BGP-4 Protocol	√	√	
	IETF	RFC4360	BGP Extended Communities Attribute	√	√	
	IETF	RFC4364	BGP/MPLS IP Virtual Private Networks	√	√	Updates RFC2547
	IETF	RFC4382	MPLS/BGP Layer 3 Virtual Private Network (VPN) Management nformation Base	√	√	
	IETF	RFC4456	BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP)	√	√	obsoletes RFC 1966,RFC 2796
	IETF	RFC4486	Subcodes for BGP Cease Notification Message	√	√	
	IETF	RFC4724	Graceful Restart Mechanism for BGP	√	√	
	IETF	RFC4760	Multiprotocol Extensions for BGP-4	√	√	obsoletes RFC 2858
	IETF	RFC4781	Graceful Restart Mechanism for BGP with MPLS	√	√	
	IETF	RFC4798	Connecting IPv6 Islands over IPv4 MPLS using IPv6 Provider Edge Routers (6PE)	√	√	
	IETF	RFC4893	BGP Support for Four-octet AS Number Space	√	√	
	IETF	RFC5065	Autonomous System Confederations for BGP	√	√	Obsoletes: 3065
	IETF	RFC5396	Textual Representation of Autonomous System (AS) Numbers	√	√	
	IETF	RFC5492	Capabilities Advertisement with BGP-4	√	√	Obsoletes: 3392
	IETF	RFC5668	4-Octet AS Specific BGP Extended Community	√	√	
DHCP						
	IETF	RFC 0951	Bootstrap Protocol	√	√	Updated by RFC1395, RFC1497, RFC1532, RFC1542
	IETF	RFC 1534	Interoperation Between DHCP and BOOTP	√	√	
	IETF	RFC 2131	Dynamic Host Configuration Protocol.	√	√	
	IETF	RFC 2132	DHCP Options and BOOTP Vendor Extensions	√	√	
	IETF	RFC 1542	Clarifications and Extensions for the Bootstrap Protocol	√	√	
	IETF	RFC 3046	DHCP Option82	√	√	

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	IETF	RFC1533	DHCP Options and BOOTP Vendor Extensions	√	√	
	IETF	RFC3315	Dynamic Host Configuration Protocol for IPv6 (DHCPv6)	√	√	
	IETF	RFC3396	Encoding Long Options in the Dynamic Host Configuration Protocol (DHCPv4)	√	√	Updates RFC2131
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	√	√	
FTP/TFTP/Telnet						
	IETF	RFC 0959	File Transfer Protocol	√	√	
	IETF	RFC 1350	The TFTP Protocol (Revision 2)	√	√	
	IETF	RFC 0854	Telnet Protocol Specification.	√	√	
	IETF	RFC 0855	Telnet Option Specifications	√	√	
	IETF	RFC 0857	TELNET ECHO OPTION	√	√	
	IETF	RFC 0858	Telnet Suppress Go Ahead Option	√	√	
	IETF	RFC 1091	Telnet Terminal-Type Option	√	√	
	IETF	draft-irtf-secsh-filexfer-14.txt	SFTP	√	√	
	IETF	RFC2765	Stateless IP/ICMP Translation Algorithm (SIIT)	√	√	
ICMP						
	IETF	RFC 1256	ICMP Router Discovery Messages	√	√	
	IETF	RFC 4443	Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification	√	√	
IGMP						
	IETF	RFC 1112	Host extensions for IP multicasting	√	√	
	IETF	RFC 2236	Internet Group Management Protocol, Version 2	√	√	
	IETF	RFC 3376	Internet Group Management Protocol, Version 3	√	√	
	IETF	draft-holbrook-idmr-igmpv3-ssm-08.txt	Using IGMPv3 and MLDv2 For Source-Specific Multicast	√	√	Updated by: 4604
IGMP Snooping						
	IETF	RFC 4541	Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches	√	√	
	IETF	draft-ietf-magma-snoop-11	Considerations for IGMP and MLD Snooping Switches	√	√	
	IETF	draft-ietf-magma-snoop-12.txt	Considerations for Internet Group Management Protocol (IGMP)and Multicast Listener Discovery (MLD) Snooping Switches	√	√	
IP						
	IETF	draft-fenner-traceroute-ipm-01	A "traceroute" facility for IP Multicast	√	√	
	IETF	draft-ietf-mpls-lsp-ping-version-05	Detecting MPLS Data Plane Failures (only the LDP IPv4 prefix TLV, RSVP IPv4 Session Query TLV, and VPN IPv4 prefix TLV)	√	√	
	IETF	RFC 0791	Internet Protocol	√	√	Obsoletes RFC0760\Updated by RFC1349
	IETF	RFC 0792	Internet Control Message Protocol	√	√	
	IETF	RFC 0894	Standard for the transmission of IP datagrams over Ethernet networks. C. Hornig. Apr-01-1984. (Format: TXT=5697 bytes) (Also STD0041) (Status: STANDARD)	√	√	
	IETF	RFC 0950	Internet Standard Subnetting Procedure	√	√	
	IETF	RFC 1122	Requirements for Internet Hosts - Communication Layers.	√	√	
	IETF	RFC 1141	Incremental updating of the Internet checksum	√	√	
	IETF	RFC 1144	Compressing TCP/IP headers for low-speed serial links. V. Jacobson. Feb-01-1990. (Format:	√	√	

Standard Classification	Standards Organization	Standard Number	Standard title	S9700 Compliance	S7700 Compliance	Notes
			TXT=120959, PS=534729, PDF=255616 bytes) (Status: PROPOSED STANDARD)			
	IETF	RFC 2507	IP Header Compression	√	√	
	IETF	RFC 2508	Compressing IP/UDP/RTP Headers for Low-Speed Serial Links	√	√	
	IETF	RFC0135	Response to NWG/RFC 110	√	√	Updates RFC0110
	IETF	RFC1071	Computing the Internet Checksum	√	√	
	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	RFC1293	Inverse Address Resolution Protocol	√	√	
	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	√	√	Obsolutes RFC1627, RFC1597
	IETF	RFC2119	Key words for use in RFCs to Indicate Requirement Levels	√	√	
	IETF	RFC2211	Specification of the Controlled-Load Network Element Service	√	√	
	IETF	RFC2285	Benchmarking Terminology for LAN Switching Devices	√	√	
	IETF	RFC2365	Administratively Scoped IP Multicast	√	√	
	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	RFC3682	The Generalized TTL Security Mechanism (GTSM)	√	√	
	IETF	RFC4223	Reclassification of RFC 1863 to Historic	√	√	
	IETF	RFC4250	Protocol Assigned Numbers	√	√	
	IETF	RFC4561	Definition of a Record Route Object (RRO) Node-Id Sub-Object	√	√	
IPSEC&IKE&NAT						
	IETF	RFC2367	PF_KEY Key Management API, Version 2	√	√	
	IETF	RFC2401	Security Architecture for the Internet Protocol	√	√	Obsoletes RFC1825，Obsoleted by 4301
	IETF	RFC2406	IP Encapsulating Security Payload (ESP)	√	√	Obsoletes RFC1827，Obsoleted by RFC4303, RFC4305
	IETF	RFC2408	Internet Security Association and Key Management Protocol (ISAKMP)	√	√	Obsoleted by RFC4306
	IETF	RFC2409	The Internet Key Exchange (IKE)	√	√	Obsoleted by RFC4306
	IETF	RFC2410	The NULL Encryption Algorithm and Its Use With IPsec	√	√	
	IETF	RFC2411	IP Security Document Roadmap	√	√	

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	IETF	RFC3706	A Traffic-Based Method of Detecting Dead Internet Key Exchange (IKE) Peers	√	√	
	IETF	RFC4306	Internet Key Exchange (IKEv2) Protocol	√	√	
	IETF	draft-ietf-ipsec-nat-t-ike-01.txt	Negotiation of NAT-Traversal in the IKE	√	√	
	IETF	draft-ietf-ipsec-nat-t-ike-02.txt	Negotiation of NAT-Traversal in the IKE	√	√	
	IETF	draft-ietf-ipsec-heartbeats-00.txt		√	√	
	IETF	RFC1631	The IP Network Address Translator (NAT)	√	√	
	IETF	RFC2663	IP Network Address Translator (NAT) Terminology and Considerations	√	√	
	IETF	RFC2993	Architectural Implications of NAT	√	√	
	IETF	RFC3022	Traditional IP Network Address Translator (Traditional NAT)	√	√	
	IETF	RFC3235	Network Address Translator (NAT)-Friendly Application Design Guidelines	√	√	
IPv6						
	IETF	draft-ietf-l3vpn-bgp-ipv6	BGP-MPLS VPN extension for IPv6 VPN	√	√	
	IETF	draft-ietf-ngtrans-bgp-tunnel-04	Connecting IPv6 Domains across IPv4 Clouds with BGP	√	√	
	IETF	draft-ietf-ngtrans-bgp-tunnel-04	Connecting IPv6 Domains across IPv4 Clouds with BGP	√	√	
	IETF	draft-ietf-ngtrans-isatap-20.txt	Intra-Site Automatic Tunnel Addressing Protocol(ISATAP)	√	√	
	IETF	RFC 1886	DNS Extensions to Support IP version 6	√	√	
	IETF	RFC 1887	An Architecture for IPv6 Unicast Address Allocation	√	√	
	IETF	RFC 1970	Neighbor Discovery for IP Version 6 (IPv6)	√	√	Obsoleted by RFC2461
	IETF	RFC 1981	Path MTU Discovery for IP version 6	√	√	
	IETF	RFC 2373	IP Version 6 Addressing Architecture	√	√	Obsoletes RFC1884\Obsoleted by RFC3513
	IETF	RFC 2374	An IPv6 Aggregatable Global Unicast Address Format	√	√	Obsoletes RFC2073\Obsoleted by RFC3587
	IETF	RFC 2375	IPv6 Multicast Address Assignments	√	√	
	IETF	RFC 2452	MIB for TCP6	√	√	
	IETF	RFC 2460	Internet Protocol, Version 6 (IPv6) Specification	√	√	
	IETF	RFC 2461	Neighbor Discovery for IP Version 6 (IPv6)	√	√	
	IETF	RFC 2462	IPv6 Stateless Address Auto configuration	√	√	
	IETF	RFC 2463	Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6)Specification	√	√	
	IETF	RFC 2464	Transmission of IPv6 Packets over Ethernet Networks	√	√	
	IETF	RFC 2465	Management Information Base for IP Version	√	√	
	IETF	RFC 2466	MIB for ICMP6	√	√	
	IETF	RFC 2473	Generic Packet Tunneling in IPv6 Specification	√	√	
	IETF	RFC 2474	Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	√	√	
	IETF	RFC 2475	An Architecture for Differentiated Services	√	√	
	IETF	RFC 2529	Transmission of IPv6 over IPv4 Domains without Explicit Tunnels	√	√	
	IETF	RFC 2545	BGP suppor IPV6	√	√	
	IETF	RFC 2553	Basic Socket Interface Extensions for IPv6	√	√	
	IETF	RFC 2578	Structure of Management Information Version 2 (SMIv2)	√	√	
	IETF	RFC 2711	IPv6 Router Alert Option	√	√	
	IETF	RFC 2893	Transition Mechanisms for IPv6 Hosts and Routers	√	√	
	IETF	RFC 2992	Analysis of an Equal-Cost Multi-Path Algorithm	√	√	
	IETF	RFC 3056	Connection of IPv6 Domains via IPv4 Clouds	√	√	
	IETF	RFC 3363	Representing Internet Protocol version 6 (IPv6) Addresses in the Domain Name System (DNS).	√	√	
	IETF	RFC 3493	Basic Socket Interface Extensions for IPv6	√	√	
	IETF	RFC 3513	IP Version 6 Addressing Architecture	√	√	Obsoletes RFC2373

Standard Classification	Standards Organization	Standard Number	Standard title	S9700 Compliance	S7700 Compliance	Notes
	IETF	RFC 3542	Advanced Sockets API for IPv6	√	√	
	IETF	RFC 4443	Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification	√	√	
	IETF	RFC3567	Intermediate System to Intermediate System (IS-IS) Cryptographic Authentication	√	√	
	IETF	RFC4007	IPv6 Scoped Address Architecture	√	√	
	IETF	RFC4213	Basic Transition Mechanisms for IPv6 Hosts and Router	√	√	
	IETF	RFC4291	IP Version 6 Addressing Architecture	√	√	
	IETF	RFC4861	Neighbor Discovery for IP Version 6	√	√	Obsoletes: RFC 2461
	IETF	RFC4862	IPv6 Stateless Address Autoconfiguration	√	√	
	IETF	RFC5095	Deprecation of Type 0 Routing Headers in IPv6	√	√	Updates:RFC 2460
IPV6 Routing						
	IETF	RFC2080	RIPng support	√	√	
	IETF	RFC2081	RIPng Protocol Applicability Statement	√	√	
	IETF	RFC2710	Multicast Listener Discovery (MLD) for IPv6	√	√	Updated by: 3590, 3810
	IETF	RFC2740	OSPF for IPv6 (OSPFv3)	√	√	
	IETF	RFC3810	Multicast Listener Discovery Version 2 (MLDv2) for IPv6	√	√	Updated by: 4604
	IETF	RFC3956	Embedding the Rendezvous Point (RP) Address in an IPv6 Multicast Address	√	√	
	IETF	RFC4552	Authentication/Confidentiality for OSPFv3	√	√	
	IETF	RFC5187	OSPFv3 Graceful Restart	√	√	
	IETF	RFC5250	The OSPF Opaque LSA Option	√	√	obsoletes RFC 2370
	IETF	RFC5340	OSPF for IPv6（obsoletes RFC 2740）	√	√	
	IETF	RFC5613	OSPF Link-local Signaling,	√	√	obsoletes RFC 4813
	IETF	RFC5643	Management Information Base for OSPFv3	√	√	
IS-IS						
	IETF	draft-ietf-isis-admin-tags-01	Policy Control Mechanism in ISIS Using Administrative Tags	√	√	
	IETF	draft-ietf-isis-ipv6-04	Routing IPv6 with IS-IS	√	√	
	IETF	draft-ietf-isis-ipv6-06	Routing IPv6 with IS-IS	√	√	
	IETF	draft-ietf-isis-ipv6-07	Routing IPv6 with IS-IS	√	√	
	IETF	draft-ietf-isis-snp-checksum-02.txt	Optional Checksums for IS-IS	√	√	
	IETF	draft-ietf-isis-wg-multi-topology-11.txt	M-ISIS: Multi Topology (MT) Routing in IS-IS	√	√	
	IETF	draft-ietf-isis-wg-mib-20	Management Information Base for IS-IS	√	√	
	IETF	RFC 1142	OSI IS-IS Intra-domain Routing Protocol	√	√	
	IETF	RFC 1195	Use of OSI IS-IS for Routing in TCP/IP and Dual Environments	√	√	
	IETF	RFC 2104	HMAC: Keyed-Hashing for Message Authentication	√	√	
	IETF	RFC 2763	Dynamic Hostname Exchange Mechanism for IS-IS	√	√	
	IETF	RFC 2966	Domain-wide Prefix Distribution with Two-Level IS-IS	√	√	
	IETF	RFC 2973	IS-IS Mesh Groups	√	√	
	IETF	RFC 3277	IS-IS Transient Blackhole Avoidance	√	√	
	IETF	RFC 3719	Recommendations for Interoperable Networks using IS-IS	√	√	
	IETF	RFC 3784	IS-IS extensions for Traffic Engineering	√	√	updated by RFC 4205
	IETF	RFC 3786	Extending the Number of IS-IS LSP Fragments Beyond the 256 Limit	√	√	
	IETF	RFC 3787	Recommendations for Interoperable IP Networks using IS-IS	√	√	
	IETF	RFC 3847	Restart signaling for IS-IS	√	√	
	IETF	RFC 5304	Intermediate System to Intermediate System (IS-IS) Cryptographic Authentication	√	√	
	IETF	RFC3359	Reserved Type, Length and Value (TLV) Codepoints in Intermediate System to Intermediate System	√	√	

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	IETF	RFC3373	Three-Way Handshake for Intermediate System to Intermediate System (IS-IS) Point-to-Point Adjacencies	√	√	
	IETF	RFC4444	Management Information Base for Intermediate System to Intermediate System (IS-IS)	√	√	
MFF						
	IETF	RFC 4562	MAC-Forced Forwarding	√	√	
MPLS TE						
	IETF	RFC 2702	Requirements for Traffic Engineering Over MPLS	√	√	
	IETF	RFC3272	Overview and Principles of Internet Traffic Engineering	√	√	
	IETF	RFC 2205	Resource ReSerVation Protocol	√	√	
	IETF	RFC 3209	RSVP-TE: Extensions to RSVP for LSP Tunnels	√	√	updated by RFC 3936,RFC 4420,RFC 4874
	IETF	RFC 2961	RSVP Refresh Overhead Reduction Extensions	√	√	
	IETF	RFC 3564	Requirements for Support of Differentiated Service-aware MPLS Traffic Engineering	√	√	
	IETF	RFC4216	MPLS Inter-AS TE Requirements	√	√	
	IETF	draft-ietf-mpls-te-mib-09.txt	Multiprotocol Label Switching (MPLS) Traffic Engineering Management Information Base	√	√	
MPLS VPN						
	IETF	RFC 2547bis	BGP/MPLS VPNs.	√	√	
	IETF	RFC 2764	A Framework for IP Based Virtual Private Networks.	√	√	
	IETF	RFC 2796	BGP Route Reflection - An Alternative to Full Mesh IBGP	√	√	Obsoletes RFC1996
				√	√	
	IETF	RFC 2858	Multiprotocol Extensions for BGP4	√	√	obsoletes RFC 2283/ obsoleted by RFC 4760
	IETF	RFC 2917	A Core MPLS IP VPN Architecture	√	√	
	IETF	RFC 2918	Route Refresh Capability for BGP-4	√	√	
	IETF	RFC 3031	Multiprotocol Label Switching Architecture	√	√	
	IETF	RFC 5036	LDP Specification	√	√	
	IETF	RFC 3107	Carrying Label Information in BGP-4	√	√	
	IETF	draft-martini-l2circuit-encap-mpls-xx.txt	Encapsulation Methods for Transport of Layer 2 Frames Over IP and MPLS Networks	√	√	
	IETF	draft-martini-l2circuit-trans-mpls-xx.txt	Transport of Layer 2 Frames Over MPLS	√	√	
	IETF	draft-ietf-l2vpn-vpls-ldp-xx.txt	Virtual Private LAN Services over MPLS	√	√	
	IETF	RFC4664	Framework for Layer 2 Virtual Private Networks (L2VPNs)	√	√	
	IETF	RFC4665	Service Requirements for Layer 2 Provider-Provisioned Virtual Private Networks	√	√	
	IETF	RFC4762	Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling	√	√	Obsoletes draft-ietf-l2vpn-vpls-ldp-08
	IETF	RFC4761	Virtual Private LAN Service (VPLS) Using BGP for Auto-Discovery and Signaling	√	√	
	IETF	RFC2547	BGP/MPLS VPNs	√	√	
	IETF	RFC3270	Multi-Protocol Label Switching (MPLS) Support of Differentiated Services	√	√	
	IETF	RFC3469	Framework for Multi-Protocol Label Switching (MPLS)-based Recovery	√	√	
	IETF	RFC3443	Time To Live (TTL) Processing in Multi-Protocol Label Switching (MPLS) Networks	√	√	Updates RFC3032
	IETF	RFC3478	Graceful Restart Mechanism for LDP	√	√	
	IETF	RFC3479	Fault Tolerance for the Label Distribution Protocol (LDP)	√	√	
	IETF	RFC3612	Applicability Statement for Restart Mechanisms for the Label Distribution Protocol (LDP)	√	√	
	IETF	RFC3032	MPLS Label Stack Encoding	√	√	updated by RFC 3443,RFC 4182
	IETF	RFC3036	LDP Specification	√	√	
	IETF	RFC3037	LDP Applicability	√	√	
	IETF	RFC4182	Removing a Restriction on the use of MPLS Explicit NULL	√	√	updates RFC 3032
	IETF	draft-ietf-mpls-lsp-ping-version-09.txt/RFC4379	Detecting Multi-Protocol Label Switched (MPLS) Data Plane Failures	√	√	updates RFC 1122
	IETF	RFC4906	Transport of Layer 2 Frames Over MPLS	√	√	

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	IETF	RFC4762	Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling	√	√	
	IETF	RFC4382	MPLS/BGP Layer 3 Virtual Private Network (VPN) Management nformation Base	√	√	
	IETF	RFC4221	Multiprotocol Label Switching (MPLS) Management Overview	√	√	
	IETF	RFC3811	Definitions of Textual Conventions (TCs) for Multiprotocol Label Switching (MPLS) Management	√	√	
	IETF	RFC1186	Definitions of Textual Conventions (TCs) for Multiprotocol Label Switching (MPLS) Management	√	√	
	IETF	RFC2209	Resource ReSerVation Protocol (RSVP) -- Version 1 Message Processing Rules	√	√	
	IETF	RFC2210	The Use of RSVP with IETF Integrated Services	√	√	
	IETF	RFC2747	RSVP Cryptographic Authentication	√	√	
	IETF	RFC3097	RSVP Cryptographic Authentication -- Updated Message Type Value	√	√	
	IETF	RFC3210	Applicability Statement for Extensions to RSVP for LSP-Tunnels	√	√	
	IETF	RFC3215	LDP State Machine	√	√	
	IETF	RFC4090	Fast Reroute Extensions to RSVP-TE for LSP Tunnels	√	√	From draft-ietf-mpls-rsvp-lsp-fastreroute-01
	IETF	RFC3988	Maximum Transmission Unit Signalling Extensions for the Label Distribution Protocol	√	√	
	IETF	draft-ietf-mpls-ldp-mtu-extensions-00.txt ===》RFC3988 2005-12-07	MTU Signalling Extensions for LDP	√	√	
	IETF	RFC4659	BGP-MPLS VPN Extension for IPv6 VPN	√	√	
	IETF	RFC4859	Codepoint Registry for the Flags Field in the Resource Reservation Protocol-Traffic Engineering (RSVP-TE) Session Attribute Object	√	√	
	IETF	RFC4874	Exclude Routes - Extension to RSVP-TE	√	√	
	IETF	RFC4447	Pseudowire Setup and Maintenance Using the Label Distribution Protocol (LDP)	√	√	
	IETF	RFC4448	Encapsulation Methods for Transport of Ethernet over MPLS Networks	√	√	
	IETF	RFC4558	Node-ID Based Resource Reservation Protocol (RSVP) Hello	√	√	
	IETF	RFC5082	The Generalized TTL Security Mechanism (GTSM)	√	√	Update RFC3682
	IETF	draft-ietf-l2vpn-vpls-bgp-06	Virtual Private LAN Service	√	√	
	IETF	draft-ietf-mpls-ldp-mib-09	Definitions of Managed Objects for the Multiprotocol Label Switching, Label Distribution Protocol (LDP)	√	√	
	IETF	draft-ietf-mpls-ldp-restart-03	Graceful Restart Mechanism for LDP	√	√	
	IETF	MPLS-MPLS-EXTEND-MIB	This MIB contains private managed object and notification trap definitions for the Multiprotocol Label Switching (MPLS)	√	√	
	IETF	draft-ietf-mpls-icmp-08	ICMP Extensions for Multiprotocol Label Switching	√	√	
	IETF	draft-smith-mpls-ldp-restart-00	Graceful Restart Mechanism for LDP	√	√	
	IETF	draft-decraene-mpls-ldp-interarea-04.txt	LDP extension for Inter-Area LSP	√	√	
	IETF	draft-ietf-mpls-remote-lsp-ping-00	Proxy LSP Ping	√	√	
	IETF	RFC2430	A Provider Architecture for Differentiated Services and Traffic Engineering (PASTE).	√	√	
	IETF	draft-kompella-l2vpn-l2vpn-00.txt	pseudo wires created using BGP as signalling and auto-discovery protocol	√	√	
Multicast						
	IETF	RFC 2362	Protocol Independent Multicast-Sparse Mode (PIM-SM):Protocol Specification	√	√	Obsoleted by: 4601, 5059
	IETF	RFC 2715	Interoperability Rules for Multicast Routing Protocols	√	√	
	IETF	RFC 2934	Protocol Independent Multicast MIB for IPv4.	√	√	
	IETF	RFC3569	An Overview of Source-Specific Multicast (SSM)	√	√	
	IETF	RFC4608	Source-Specific Protocol Independent Multicast in 232/8	√	√	
	IETF	RFC4604	Using Internet Group Management Protocol Version 3 (IGMPv3) and Multicast Listener Discovery Protocol Version 2 (MLDv2) for Source-Specific Multicast	√	√	
	IETF	draft-ietf-ssm-arch-xx	Source-Specific Multicast for IP	√	√	
	IETF	draft-ietf-ssm-overview-xx	Source-Specific Multicast for IP	√	√	
	IETF	draft-rosen-vpn-mcast-xx	Multicast in MPLS/BGP VPNs	√	√	

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	IETF	draft-rosen-vpn-mcast-08	Multicast in MPLS/BGP VPNs	√	√	
NAC						
	IETF	RFC2246	The TLS Protocol Version 1.0	√	√	
	IETF	RFC2284	PPP Extensible Authentication Protocol (EAP)	√	√	
	IETF	RFC2716	PPP EAP TLS Authentication Protocol	√	√	
	IETF	RFC3748	Extensible Authentication Protocol (EAP)	√	√	
NetStream						
	IETF	RFC 3954	Cisco Systems NetFlow Services Export Version	√	√	
PIM						
	IETF	RFC 3973	Protocol Independent Multicast - Dense Mode (PIM-DM): Protocol Specification (Revised)	√	√	
	IETF	RFC 4601	Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised)	√	√	Obsoletes RFC2362
	IETF	RFC 4607	Source-Specific Multicast for IP	√	√	
	IETF	RFC 5519	Multicast Group Membership Discovery MIB	√	√	
	IETF	RFC 5132	IP Multicast MIB	√	√	
	IETF	RFC 5240（support draft-ietf-pim-bsr-mib-01）	PIM BSR MIB	√	√	
	IETF	RFC 5060（support draft-ietf-pim-mib-v2-10）	PIM MIB	√	√	
	IETF	draft-ietf-pim-sm-v2-new-12.txt	Protocol Independent Multicast - Sparse Mode (PIM-SM) .	√	√	Updated by: 4601
	IETF	draft-ietf-pim-sm-bsr-09.txt	Bootstrap Router (BSR) Mechanism for PIM Sparse Mode	√	√	Updated by: 5059
	IETF	draft-ietf-pim-ipv6-03	Protocol Independent Multicast Routing in the Internet Protocol Version 6 (IPv6)	√	√	
	IETF	draft-ietf-ssm-arch-02	Source-Specific Multicast for IP	√	√	
	IETF	draft-ietf-ssm-arch-01	Source-Specific Multicast for IP	√	√	Updated by: draft-ietf-ssm-arch-02
	IETF	draft-ietf-ssm-overview-04	Source-Specific Multicast for IP	√	√	Updated by: RFC 3569
	IETF	draft-ietf-pim-dm-new-v2-02.txt	Protocol Independent Multicast - Dense Mode (PIM-DM)	√	√	Updated by:rfc3973
	IETF	draft-ietf-pim-v2-dm-03	Protocol Independent Multicast Version 2 Dense Mode Specification	√	√	
	IETF	draft-rosen-vpn-mcast-08	Multicast in MPLS/BGP VPNs	√	√	Updated by:draft-rosen-vpn-mcast-12
	IETF	draft-ietf-ssm-overview-05	An Overview of Source-Specific Multicast (SSM)	√	√	
MSDP						
	IETF	RFC 3618	Multicast Source Discovery Protocol (MSDP)	√	√	
	IETF	RFC 3446	Anycast Rendevous Point (RP) mechanism using Protocol Independent Multicast (PIM) and Multicast Source Discovery Protocol (MSDP)	√	√	
Network Management						
	IETF	RFC 1155	Structure and identification of management information for TCP/IP-based internets	√	√	
	IETF	draft-ietf-mpls-ldp-==>> MPLS-LDP-STD-MIB(RFC3815)	Definitions of Managed Objects for the Multiprotocol Label Switching, Label Distribution Protocol (LDP)	√	√	
	IETF	draft-jork-ldp-igp-sync-01	LDP and IGP synchronization technique	√	√	
	IETF	draft-ylonen-ssh-protocol-00	SSH protocol	√	√	
	IETF	RFC 1157	A Simple Network Management Protocol (SNMP)	√	√	
	IETF	RFC 1212	Concise MIB Definitions	√	√	Also STD0016
	IETF	RFC 1213	Management Information Base for Network Management of TCP/IP-based internets: MIB-II.	√	√	(Obsoletes RFC1158) (Updated by RFC2011, RFC2012, RFC2013) (Also STD0017)
	IETF	RFC 1215	A Convention for Defining Traps for use with the SNMP	√	√	
	IETF	RFC 1229	Extensions to the generic-interface MIB	√	√	
	IETF	RFC 1305	Network Time Protocol (Version 3) Specification, Implementation and Analysis	√	√	
	IETF	RFC 1315	Management Information Base for Frame Relay DTEs	√	√	

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	IETF	RFC 1417	NADF Standing Documents: A Brief Overview	√	√	
	IETF	RFC 1473	The Definitions of Managed Objects for the IP Network Control Protocol of the Point-to-Point Protocol	√	√	
	IETF	RFC 1493	Definitions of Managed Objects for Bridges	√	√	
	IETF	RFC 1573	Evolution of the Interfaces Group of MIB-II	√	√	
	IETF	RFC 1643	Definitions of Managed Objects for the Ethernet-like Interface Types	√	√	
	IETF	RFC 1757	Remote Network Monitoring Management Information Base	√	√	
	IETF	RFC 1905	Protocol Operations for Version 2 of the Simple Network Management Protocol (SNMPv2)	√	√	
	IETF	RFC 1906	Transport Mappings for Version 2 of the Simple Network Management Protocol (SNMPv2)	√	√	
	IETF	RFC 1907	Management Information Base for Version 2 of the Simple Network Management Protocol (SNMPv2)	√	√	
	IETF	RFC 1944	Benchmarking Methodology for Network Interconnect Devices	√	√	
	IETF	RFC 2011	SNMPv2 Management Information Base for the Internet Protocol using SMIv2	√	√	
	IETF	RFC 2012	SNMPv2 Management Information Base for the Transmission Control Protocol usingSMIv2	√	√	
	IETF	RFC 2013	SNMPv2 Management Information Base for the User Datagram Protocol using SMIv2	√	√	
	IETF	RFC 2021	Remote Network Monitoring Management Information Base Version 2 using SMIv2	√	√	Obsoleted by RFC4502
	IETF	RFC 2213	Integrated Services Management Information Base using SMIv2	√	√	
	IETF	RFC 2233	The Interfaces Group MIB using SMIv2	√	√	
	IETF	RFC 2273	SNMPv3 Applications	√	√	
	IETF	RFC 2274	User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)	√	√	
	IETF	RFC 2466	Management Information Base for IP Version 6:ICMPv6 Group	√	√	
	IETF	RFC 2570	Introduction to Version 3 of the Internet-standard Network Management Framework	√	√	
	IETF	RFC 2571	An Architecture for Describing SNMP Management Frameworks	√	√	
	IETF	RFC 2572	Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)	√	√	
	IETF	RFC 2573	SNMP Applications	√	√	
	IETF	RFC 2574	SNMPV3	√	√	
	IETF	RFC 2575	View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)	√	√	
	IETF	RFC 2576	Coexistence between Version 1, Version 2, and Version 3 of the Internet-standard Network Management Framework	√	√	
	IETF	RFC 2578	Structure of Management Information Version 2 (SMIv2)	√	√	
	IETF	RFC 2579	Textual Conventions for SMIv2	√	√	
	IETF	RFC 2580	Conformance Statements for SMIv2	√	√	
	IETF	RFC 2665	Definitions of Managed Objects for the Ethernet-like Interface Types	√	√	Obsoletes RFC2358/Obsoleted by RFC3635
	IETF	RFC 2668	Definitions of Managed Objects for IEEE 802.3 Medium Attachment Units (MAUs)	√	√	Obsoletes RFC2239/Obsoleted by RFC3636
	IETF	RFC 2674	Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions	√	√	Obsoleted by RFC4363
	IETF	RFC 2737	Entity MIB (Version 2)	√	√	Obsoletes RFC2037/Obsoleted by RFC4133
	IETF	RFC 2819	Remote Network Monitoring Management Information Base	√	√	
	IETF	RFC 2863	The Interfaces Group MIB	√	√	
	IETF	RFC 2895	Remote Network Monitoring MIB Protocol Identifier Reference	√	√	
	IETF	RFC 3416	Version 2 of the Protocol Operations for the Simple Network Management Protocol (SNMP).	√	√	(Obsoletes RFC1905),support2578
	IETF	RFC 3577	Introduction to the Remote Monitoring (RMON) Family of MIB Modules	√	√	
	IETF	RFC 3812	Multiprotocol Label Switching (MPLS) Traffic Engineering (TE) Management Information Base (MIB)	√	√	
	IETF	RFC 3813	Multiprotocol Label Switching (MPLS) Label Switching Router (LSR) Management Information Base (MIB)	√	√	
	IETF	RFC 3814	Multiprotocol Label Switching (MPLS) Forwarding Equivalence Class To Next Hop Label Forwarding Entry (FEC-To-NHLFE) Management Information Base (MIB)	√	√	

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	IETF	RFC 3815	Definitions of Managed Objects for the Multiprotocol Label Switching (MPLS), Label Distribution Protocol (LDP)	√	√	
	IETF	RFC 3877	Alarm Management Information Base (MIB)	√	√	
	IETF	RFC 4001	Textual Conventions for Internet Network Addresses	√	√	
	IETF	RFC 4293	Management Information Base for the Internet Protocol (IP)	√	√	Obsoletes RFC2011, RFC2465, RFC2466
	IETF	RFC 4363	Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual LAN Extensions	√	√	
	IETF	RFC 4560	Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations	√	√	
	IETF	RFC1214	Definitions of Managed Objects for Data Link Switching using SMIv2.	√	√	
	IETF	RFC1239	Reassignment of experimental MIBs to standard MIBs	√	√	(Updates RFC1229, RFC1230, RFC1231, RFC1232, RFC1233)
	IETF	RFC1471	The Definitions of Managed Objects for the IP Network Control Protocol of the Point-to-Point Protocol	√	√	
	IETF	RFC1650	Definitions of Managed Objects for the Ethernet-like Interface Types using SMIv2	√	√	
	IETF	RFC1901	Introduction to Community-based SNMPv2	√	√	
	IETF	RFC1902	Structure of Management Information for Version 2 of the Simple Network Management Protocol (SNMPv2)	√	√	
	IETF	RFC1903	Textual Conventions for Version 2 of the Simple Network Management Protocol (SNMPv2)	√	√	
	IETF	RFC1904	Conformance Statements for Version 2 of the Simple Network Management Protocol (SNMPv2)	√	√	
	IETF	RFC1910	User-based Security Model for SNMPv2	√	√	
	IETF	RFC2215	General Characterization Parameters for Integrated Service Network Elements	√	√	
	IETF	RFC2216	Network Element Service Specification Template	√	√	
	IETF	RFC2275	View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)	√	√	
	IETF	RFC2493	Textual Conventions for MIB Modules Using Performance History Based on 15 Minute Intervals	√	√	
	IETF	RFC3201	Circuit to Interface MIB	√	√	
	IETF	RFC3386	Network Hierarchy and Multilayer Survivability	√	√	
	IETF	RFC3410	An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks	√	√	Obsoletes RFC2570
	IETF	RFC3411	An Architecture for Describing Simple Network Management Protocol (SNMP) Management rameworks	√	√	(Obsoletes RFC2571) (Also STD0062),support2571
	IETF	RFC3412	Message Processing and Dispatching for the Simple Network Management Protocol SNMP)	√	√	(Obsoletes RFC2572)(Also STD0062),support2572
	IETF	RFC3413	Simple Network Management Protocol (SNMP) Applications	√	√	(Obsoletes RFC2573) (Also STD0062),support2573
	IETF	RFC3414	User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)	√	√	(Obsoletes RFC2574) (Also STD0062),support2574
	IETF	RFC3415	View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)	√	√	(Obsoletes RFC2575) (Also STD0062),support2575
	IETF	RFC3418	Management Information Base (MIB) for the Simple Network Management Protocol (SNMP).	√	√	(Obsoletes RFC1907) (Also STD0062),support1907
	IETF	RFC3512	Configuring Networks and Devices with Simple Network Management Protocol (SNMP).	√	√	
	IETF	RFC3535	Overview of the 2002 IAB Network Management Workshop.	√	√	
	IETF	RFC3593	Textual Conventions for MIB Modules Using Performance History Based on 15 Minute Intervals	√	√	(Obsoletes: 2493)
	IETF	RFC3635	Definitions of Managed Objects for the Ethernet-like Interface Types	√	√	(Obsoletes: 2665)
	IETF	RFC3737	IANA Guidelines for the Registry of Remote Monitoring (RMON) MIB modules	√	√	
	IETF	RFC4292	IP Forwarding Table MIB	√	√	
OAM						
	IETF	RFC4377	Operations and Management (OAM) Requirements for MPLS	√	√	
	IETF	RFC4378	A Framework for Multi-Protocol Label Switching (MPLS) Operations and Management (OAM).	√	√	
	IETF	RFC2925	Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations.	√	√	Obsoleted by RFC4560
OSPF						
	IETF	RFC1131	OSPF specification	√	√	obsoleted by RFC 1247
	IETF	RFC1583	OSPF Version 2	√	√	obsoletes RFC 1247/obsoleted by RFC 2178

Standard Classification	Standards Organization	Standard Number	Standard title	S9700 Compliance	S7700 Compliance	Notes
	IETF	draft-ietf-ospf-lls-00	OSPF Link-local Signaling	√	√	
	IETF	draft-ietf-ospf-oob-resync-01	OSPF Out-of-band LSDB resynchronization	√	√	
	IETF	Draft-ietf-ospf-ospfv3-mib-04	OSPF for ipv6 mib	√	√	
	IETF	draft-ietf-ospf-restart-01	OSPF Restart Signaling	√	√	
	IETF	draft-ietf-tewg-diff-te-proto-02	OSPF DS-TE support	√	√	
	IETF	draft-katz-yeung-ospf-traffic-09	Ospf TE support	√	√	
	IETF	draft-rosen-ppvpn-ospf2547-area0-01	BGP/MPLS VPN support on AREA 0	√	√	
	IETF	draft-rosen-vpns-ospf-bgp-mpls-05	BGP/MPLS VPN support	√	√	
	IETF	RFC 1587	The OSPF NSSA Option	√	√	obsoleted by RFC 3101
	IETF	RFC 1765	OSPF Database Overflow	√	√	
	IETF	RFC 2328	OSPF Version 2	√	√	obsoletes RFC 2178
	IETF	RFC 1850	OSPF Version 2 Management Information Base	√	√	obsoletes RFC 1253/ obsoleted by RFC 4750
	IETF	RFC 2370	The The OSPF Opaque LSA Option	√	√	updated by RFC 3630
	IETF	RFC 2740	OSPF for IPv6	√	√	
	IETF	RFC 3137	OSPF Stub Router Advertisement	√	√	
	IETF	RFC1245	OSPF Protocol Analysis	√	√	
	IETF	RFC1246	Experience with the OSPF Protocol	√	√	
	IETF	RFC1247	OSPF Version 2	√	√	obsoletes RFC 1131/ obsoleted by RFC 1583
	IETF	RFC1248	OSPF Version 2 Management Information Base	√	√	obsoleted by RFC 1252,RFC 1349
	IETF	RFC1252	OSPF Version 2 Management Information Base	√	√	obsoletes RFC 1248/ obsoleted by RFC 1253
	IETF	RFC1253	OSPF Version 2 Management Information Base	√	√	obsoletes RFC 1252/ obsoleted by RFC 1850
	IETF	RFC2178	OSPF Version 2	√	√	obsoletes RFC 1583/ obsoleted by RFC 2328
	IETF	RFC2328	OSPF Version 2	√	√	obsoletes RFC 2178
	IETF	RFC2329	OSPF Standardization Report	√	√	
	IETF	RFC3101	The OSPF NSSA Option	√	√	obsoletes RFC 1587
	IETF	RFC3623	OSPF Graceful Restart	√	√	
	IETF	RFC3630	Traffic Engineering Extensions to OSPF	√	√	updates RFC 2370/ updated by RFC 4203
	IETF	RFC4167	Graceful OSPF Restart Implementation Report	√	√	
QoS						
	IEEE	RFC 1349	Type of Service in the Internet Protocol Suite	√	√	
	IEEE	RFC 2309	Recommendations on Queue Management and Congestion Avoidance 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	RFC2386	A Framework for QoS-based Routing in the Internet	√	√	
	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	√	√	

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	IETF	RFC2212	Specification of Guaranteed Quality of Service	√	√	
	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	√	√	
PWE3						
	IETF	RFC3916	Requirements for Pseudo-Wire Emulation Edge-to-Edge (PWE3)	√	√	
	IETF	RFC3985	PWE3 Architecture	√	√	
	IETF	RFC4385	Pseudowire Emulation Edge-to-Edge (PWE3) Control Word for Use over an MPLS PSN	√	√	
	IETF	RFC4446	IANA Allocations for Pseudowire Edge to Edge Emulation (PWE3)	√	√	
	IETF	draft-ietf-pwe3-control-protocol-15.txt	Pseudowire Setup and Maintenance Using the Label Distribution Protocol (LDP)	√	√	
	IETF	draft-martini-pwe3-pw-switching-00.txt	Pseudo Wire Switching	√	√	
	IETF	draft-raggarwa-rsvpte-pw-00.txt	Setup and Maintenance of Pseudowires using RSVP-TE	√	√	
	IETF	draft-ietf-pwe3-vccv-03.txt	Pseudowire Virtual Circuit Connectivity Verification (VCCV): A Control Channel for Pseudowires	√	√	
	IETF	draft-ietf-l2vpn-vpls-ldp-02.txt	Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling	√	√	
	IETF	draft-ietf-l2vpn-vpls-bgp-05.txt	Virtual Private LAN Service (VPLS) Using BGP for Auto-Discovery and Signaling	√	√	
	IETF	draft-ietf-pwe3-congestion-frmwk-01	Pseudowire Congestion Control Framework	√	√	
	IETF	draft-ietf-pwe3-dynamic-ms-pw-08	Dynamic Placement of Multi Segment Pseudo Wires	√	√	
	IETF	draft-ietf-pwe3-ms-pw-arch-04	An Architecture for Multi-Segment Pseudowire Emulation Edge-to-Edge	√	√	
	IETF	draft-ietf-pwe3-ms-pw-requirements-07	Requirements for Multi-Segment Pseudowire Emulation Edge-to-Edge (PWE3)	√	√	
	IETF	draft-ietf-pwe3-oam-msg-map-07	Pseudo Wire (PW) OAM Message Mapping	√	√	
	IETF	draft-ietf-pwe3-redundancy-02	Pseudowire (PW) Redundancy	√	√	
	IETF	draft-ietf-pwe3-redundancy-bit-02	Preferential Forwarding Status bit definition	√	√	
	IETF	draft-ietf-pwe3-segmented-pw	Segmented Pseudo Wire	√	√	
	IETF	draft-ietf-pwe3-vccv-bfd-02	Bidirectional Forwarding Detection (BFD) for the Pseudowire Virtual Circuit Connectivity Verification (VCCV)	√	√	
	IETF	draft-ietf-pwe3-vccv-10	Pseudo Wire Virtual Circuit Connectivity Verification (VCCV)	√	√	
	IETF	draft-ietf-pwe3-vccv-10	Pseudo Wire Virtual Circuit Connectivity Verification (VCCV)	√	√	
	IETF	draft-ietf-pwe3-vccv-10	Pseudo Wire Virtual Circuit Connectivity Verification (VCCV)	√	√	
	IETF	draft-ietf-pwe3-cell-transport-04	Pseudowire Emulation Edge-to-Edge (PWE3) Asynchronous Transfer Mode (ATM) Transparent Cell Transport Service	√	√	
		draft-ietf-pwe3-hdlc-ppp-encap-mpls-07	Encapsulation Methods for Transport of PPP/High-Level Data Link Control (HDLC) over MPLS Networks	√	√	
	IETF	draft-ietf-pwe3-vccv-07	Pseudowire Virtual Circuit Connectivity Verification (VCCV): A Control Channel for Pseudowires	√	√	
	IETF	draft-balus-l2vpn-vpls-802-VPLS Extensions for Provider Backbone Bridging.txt	VPLS Extensions for Provider Backbone Bridging	√	√	
	IETF	draft-sajassi-l2vpn-vpls-pbb-interop-03 - VPLS Interoperability with Provider Backbone Bridges.txt	VPLS Interoperability with Provider Backbone Bridges	√	√	
RIP						
	IETF	RFC1058	Routing Information Protocol	√	√	
	IETF	RFC1389	RIP Version 2 MIB Extension	√	√	
	IETF	RFC1388	RIP Version 2 Carrying Additional Information	√	√	
	IETF	RFC 1721	RIP Version 2 Protocol Analysis	√	√	
	IETF	RFC 1724	RIP Version 2 MIB Extension	√	√	
	IETF	RFC 1726	Technical Criteria for Choosing IP The Next Generation (IPng)	√	√	
	IETF	RFC 1727	A Vision of an Integrated Internet Information Service	√	√	
	IETF	RFC 1728	Resource Transponders	√	√	
	IETF	RFC 2082	RIP-2 MD5 Authentication	√	√	

Standard Classification	Standards Organization	Standard Number	Standard title	S9700 Compliance	S7700 Compliance	Notes
	IETF	RFC 2083	PNG (Portable Network Graphics) Specification Version 1.0	√	√	
	IETF	RFC 2091	Triggered Extensions to RIP to Support Demand Circuits	√	√	
	IETF	RFC 2453	RIP Version 2.	√	√	
Route Protocol						
	IETF	RFC 1058	Network Time Protocol (version 1) specification and implementation	√	√	
	IETF	RFC 1519	Classless Inter-Domain Routing (CIDR): an Address Assignment and Aggregation Strategy	√	√	(Obsoletes RFC1338) (Obsoleted by RFC4632)
	IETF	RFC 1812	Requirements for IP Version 4 Routers	√	√	(Obsoletes RFC1716, RFC1009) (Updated by RFC2644)
	IETF	RFC 2622	Routing Policy Specification Language (RPSL)	√	√	
	IETF	RFC 2644	Changing the Default for Directed Broadcasts in Routers.	√	√	
Security						
	IETF	RFC4251	The Secure Shell (SSH) Protocol Architecture	√	√	
	IETF	RFC4252	The Secure Shell (SSH) Authentication Protocol	√	√	
	IETF	RFC4253	The Secure Shell (SSH) Transport Layer Protocol	√	√	
	IETF	RFC4254	The Secure Shell (SSH) Connection Protocol	√	√	
	IETF	RFC4344	The Secure Shell (SSH) Transport Layer Encryption Modes	√	√	
	IETF	RFC4345	Improved Arcfour Modes for the Secure Shell (SSH) Transport Layer	√	√	
	IETF	RFC4245	Improved Arcfour Modes for the Secure Shell (SSH) Transport Layer Protocol	√	√	
	IETF	RFC2267	Network Ingress Filtering: Defeating Denial of Service Attacks which employ IP Source Address Spoofing (Obsolete)	√	√	
	IETF	RFC2827	Network Ingress Filtering: Defeating Denial of Service Attacks which employ IP Source Address Spoofing.	√	√	(Obsoletes RFC2267) Updated by RFC3704) Also BCP0038)
	IETF	RFC3164	The BSD Syslog Protocol	√	√	
	IETF	RFC1828	IP Authentication using Keyed MD5	√	√	
	IETF	RFC1321	The MD5 Message-Digest Algorithm	√	√	
	IETF	RFC2411	IP Security Document Roadmap	√	√	
	IETF	RFC4301	Security Architecture for the Internet Protocol	√	√	
	IETF	RFC1244	Site Security Handbook	√	√	Obsoleted by RFC2196
	IETF	draft-ietf-syslog-protocol-20	The syslog Protocol	√	√	
	IETF	draft-ietf-syslog-transport-udp-09	Transmission of syslog messages over UDP	√	√	
TCP						
	IETF	RFC 0793	Transmission Control Protocol	√	√	
	IETF	RFC 2012	SNMPv2 Management Information Base for the Transmission Control Protocol using SMIv2	√	√	
	IETF	RFC0813	Window and Acknowledgement Strategy in TCP/IP	√	√	
	IETF	RFC1001	Protocol Standard for a NetBIOS Service on a TCP/UDP Transport: Concepts and Methods	√	√	
	IETF	RFC1002	Protocol Standard for a NetBIOS Service on a TCP/UDP Transport: Detailed Specifications	√	√	
	IETF	RFC1323	TCP Extensions for High Performance	√	√	
	IETF	RFC2581	TCP Congestion Control	√	√	
	IETF	draft-tcpm-tcpsecure-00.txt		√	√	
UDP						
	IETF	RFC 0768	User Datagram Protocol.	√	√	
	IETF	RFC 2013	SNMPv2 Management Information Base for the User Datagram Protocol using SMIv2	√	√	
VLAN						
	IETF	RFC 3069	VLAN Aggregation for Efficient IP Address Allocation	√	√	
VPN						
	IETF	RFC3809	Generic Requirements for Provider Provisioned Virtual Private Networks （PPVPN）	√	√	

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	IETF	RFC4023	Encapsulating MPLS in IP or Generic Routing Encapsulation (GRE)	√	√	
	IETF	RFC4031	Service Requirements for Layer 3 Provider Provisioned Virtual Private Networks (PPVPNs).	√	√	
	IETF	RFC4087	Ip Tunnel MIB	√	√	
	IETF	RFC4110	A Framework for Layer 3 Provider-Provisioned Virtual Private Networks (PPVPNs).	√	√	
	IETF	RFC5085	Pseudowire Virtual Circuit Connectivity Verification (VCCV): A Control Channel for Pseudowires	√	√	
	IETF	RFC2983	Differentiated Services and Tunnels	√	√	
VRRP						
	IETF	RFC2338	Virtual Router Redundancy Protocol	√	√	
	IETF	RFC2787	Definitions of Managed Objects for the Virtual Router Redundancy Protocol	√	√	
	IETF	RFC3768	Virtual Router Redundancy Protocol (VRRP)	√	√	
Ethernet						
	IEEE	IEEE 802.1D	Information technology--Telecommunications and information exchange between systems--Local and metropolitan area networks--Common specifications--Part 3:Media Access Control (MAC) Bridges，1998	√	√	
	IEEE	IEEE 802.1p	IEEE Standards for Local and Metropolitan Area Networks: Virtual Bridged Local Area Networks	√	√	
	IEEE	IEEE 802.1Q	Virtual Bridged Local Area Networks	√	√	
	IEEE	IEEE 802.1ad	Provider Bridges	√	√	
	IEEE	IEEE 802.2	Information technology— Telecommunications and information exchange between systems— Local and metropolitan area networks— Specific requirements Part 2: Logical Link Control	√	√	
	IEEE	IEEE Std 802.3	Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and physical layer specifications	√	√	
	IEEE	IEEE Std 802.3ab	Physical Layer Parameters and Specifications for 1000 Mb/s Operation Over 4 Pair of Category 5 Balanced Copper Cabling, Type 1000BASE-T	√	√	
	IEEE	IEEE Std 802.3ad	Aggregation of Multiple Link Segments	√	√	
	IEEE	IEEE Std 802.3ae	10GE WEN/LAN	√	√	
	IEEE	IEEE Std 802.3ba	40Gb/s and 100Gb/s Ethernet	√	√	
	IEEE	IEEE Std 802.3x	Full Duplex and flow control	√	√	
	IEEE	IEEE Std 802.3z	Gigabit Ethernet Standard	√	√	
Eth-OAM						
	IEEE	IEEE 802.3ah	Ethernet in the First Mile.	√	√	
	IEEE	IEEE 802.1ag	Connectivity Fault Management	√	√	
LLDP						
	IEEE	IEEE 802.1ab	Link Layer Discovery Protocol	√	√	
STP						
	IEEE	IEEE 802.1D	Spanning Tree Protocol	√	√	
RSTP						
	IEEE	IEEE 802.1w	Rapid Spanning Tree Protocol	√	√	
MSTP						
	IEEE	IEEE 802.1s	Multiple Spanning Tree Protocol	√	√	
802.1x						
	IEEE	IEEE802.1x	Port based network access control protocol	√	√	
POE						
	IEEE	IEEE802.3af	DTE Power via MIDI	√	√	
	IEEE	IEEE802.3at	Data Terminal Equipment (DTE) Power via the Media Dependent Interface (MDI) Enhancements	√	√	
ITU						
	ITU	ITU SG13	Y.17ethoam	√	√	

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	ITU	ITU SG13	QoS control Ethernet-Based IP Access	√	√	
	ITU	ITU G.703	Physical/electrical characteristics of hierarchical digital interfaces	√	√	
	ITU	ITU G.813	Timing characteristics of SDH equipment slave clocks (SEC)	√	√	
	ITU	ITU G.823	The control of jitter and wander within digital networks which are based on the 2048 kbit/s hierarchy.	√	√	
	ITU	ITU G.8261	Timing and Synchronization Aspects in Packet Networks	√	√	
	ITU	ITU G.8262	TIMING CHARACTERISTICS OF SYNCHRONOUS ETHERNET EQUIPMENT SLAVE CLOCK (EEC)	√	√	
	ITU	GR1244	Clocks for the Synchronized Network: Common Generic Criteria	√	√	
	ITU	ANSI T1.105	Synchronous Optical Network(SONET) Basic Description Including Multiplex Structures, Rates, and Formats	√	√	
	ITU	ANSI T1.105.02	Synchronous Optical Network(SONET) Payload Mappings	√	√	
	ITU	ITU-T Y.1730	ETH OAM performance monitor	√	√	
	ITU	ITU-T Y.1731	ETH OAM performance monitor	√	√	
	ITU	ITU-T Y.1710	Requirements for OAM functionality for MPLS networks	√	√	
	ITU	ITU-T Y.1711	Operation and maintenance mechanism for MPLS networks	√	√	
	ITU	ITU-T Y.1720	Protection switching for MPLS networks	√	√	
ISO						
	ISO	ISO 10589	ISO IS-IS Routing Protocol	√	√	
MEF						
	MEF	MEF 2	Requirements and Framework for Ethernet Service Protection	√	√	
	MEF	MEF 9	Abstract Test Suite for Ethernet Services at the UNI	√	√	
	MEF	MEF 10.2	MEF 10.2 Ethernet Services Attributes Phase 2 *(Oct 2009)*	√	√	MEF 10.2 supercedes MEF 10.1.1 MEF 10.1.1 supercedes MEF 10.1 MEF 10.1 Supersedes MEF 10. MEF 1 and MEF 5 were superseded by MEF 10.
	MEF	MEF 11	User Network Interface (UNI) Requirements and Framework	√	√	
	MEF	MEF 13	User Network Interface (UNI) Type 1 Implementation Agreement	√	√	
	MEF	MEF 14	Abstract Test Suite for Traffic Management Phase 1	√	√	
	MEF	MEF 15	Requirements for Management of Metro Ethernet Phase 1 Network Elements	√	√	
	MEF	MEF 17	Service OAM Framework and Requirements	√	√	
	MEF	MEF 20	UNI Type 2 Implementation Agreement *(PDF 8/08)*	√	√	
	MEF	MEF 21	Abstract Test Suite for UNI Type 2 Part 1 Link OAM	√	√	
	MEF	MEF 23	Class of Service Phase 1 Implementation Agreement (supersedes any file posted here before November 3, 2009)	√	√	
	MEF	MEF 24	Abstract Test Suite for UNI Type 2 Part 2 E-LMI	√	√	
	MEF	MEF 25	Abstract Test Suite for UNI Type 2 Part 3 Service OAM	√	√	
	MEF	MEF 26	External Network Network Interface (ENNI)–Phase 1	√	√	
Xmodem						
	Xmodem	Xmodem	Chuck Forsberg, "XMODEM/YMODEM Protocol Reference"	√	√	

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