

Title: Withdrawal of IEEE Std 802.1D-2004  
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Dear Colleagues,

The IEEE 802.1 Working Group would like to inform you of our plans to withdraw IEEE Std 802.1D-2004 *IEEE Standard for Local and metropolitan area networks—Media Access Control (MAC) Bridges*. It is our intention to withdraw this standard by the end of 2021. The status of the standard will become inactive-withdrawn, and inactive standards remain available from the IEEE. The technical specifications, protocols, procedures, and managed objects of IEEE Std 802.1D-2004 are completely subsumed within IEEE 802.1Q-2018 *IEEE Standard for Local and Metropolitan Area Networks—Bridges and Bridged Networks*. The withdrawal of IEEE Std 802.1D-2004 will not result in any loss of functionality as we are actively maintaining and amending IEEE Std 802.1Q-2018. There is currently an IEEE 802.1Q revision project underway that can address any concerns with this transition. We are informing you of these plans because you have current references to IEEE Std 802.1D in your specifications.

We recommend you review your specifications for references to IEEE Std 802.1D and consider whether updates to your specifications are needed. Our quick review of your active specifications revealed a preliminary, and possibly incomplete, list of those specifications with normative, informative, and textual reference to IEEE Std 802.1D. We have found 35 normative, 23 informative and 25 textual references in RFCs, and 2 informative references in active internet drafts. Note that obsoleted RFCs and expired internet drafts are excluded. We recommend you determine whether any action is required (e.g., to update your normative references from IEEE Std 802.1D to IEEE Std 802.1Q).

The list of active references includes:

Informative	RFC 3819	Advice for Internet Subnetwork Designers July, 2004
Informative	RFC 4664	Framework for Layer 2 Virtual Private Networks (L2VPNs) September, 2006
Informative	RFC 4665	Service Requirements for Layer 2 Provider Provisioned Virtual Private Networks September, 2006
Informative	RFC 4710	Real time Application Quality of Service Monitoring (RAQMON) Framework October, 2006
Informative	RFC 4712	Transport Mappings for Real time Application Quality of Service Monitoring (RAQMON) Protocol Data Unit (PDU) October, 2006
Informative	RFC 4761	Virtual Private LAN Service (VPLS) Using BGP for Auto Discovery and Signaling January, 2007

Informative	RFC 4840	Multiple Encapsulation Methods Considered Harmful April, 2007
Informative	RFC 4903	Multi Link Subnet Issues June, 2007
Informative	RFC 4947	Address Resolution Mechanisms for IP Datagrams over MPEG 2 Networks July, 2007
Informative	RFC 4968	Analysis of IPv6 Link Models for 802.16 Based Networks August, 2007
Informative	RFC 5180	IPv6 Benchmarking Methodology for Network Interconnect Devices May, 2008
Informative	RFC 5501	Requirements for Multicast Support in Virtual Private LAN Services March, 2009
Informative	RFC 5556	Transparent Interconnection of Lots of Links (TRILL): Problem and Applicability Statement May, 2009
Informative	RFC 5695	MPLS Forwarding Benchmarking Methodology for IP Flows November, 2009
Informative	RFC 6246	Virtual Private LAN Service (VPLS) Interoperability with Customer Edge (CE) Bridges June, 2011
Informative	RFC 6620	FCFS SAVI: First Come, First Served Source Address Validation Improvement for Locally Assigned IPv6 Addresses May, 2012
Informative	RFC 6748	Optional Advanced Deployment Scenarios for the Identifier Locator Network Protocol (ILNP) November, 2012
Informative	RFC 7080	Virtual Private LAN Service (VPLS) Interoperability with Provider Backbone Bridges December, 2013
Informative	RFC 7133	Information Elements for Data Link Layer Traffic Measurement May, 2014
Informative	RFC 7348	Virtual eXtensible Local Area Network (VXLAN): A Framework for Overlaying Virtualized Layer 2 Networks over Layer 3 Networks August, 2014
Informative	RFC 7432	BGP MPLS Based Ethernet VPN February, 2015
Informative	RFC 7938	Use of BGP for Routing in Large Scale Data Centers August, 2016
Informative	RFC 8466	A YANG Data Model for Layer 2 Virtual Private Network (L2VPN) Service Delivery October, 2018
Informative	draft lee randomized macaddr ps 01	Problem Statements for MAC Address Randomization
Informative	draft ietf mpls rmr 13	Resilient MPLS Rings
Normative	RFC 1525	Definitions of Managed Objects for Source Routing Bridges September, 1993
Normative	RFC 1749	IEEE 802.5 Station Source Routing MIB using SMIV2 December, 1994
Normative	RFC 1795	Data Link Switching: Switch to Switch Protocol AIW DLSw RIG: DLSw Closed Pages, DLSw Standard Version 1 April, 1995
Normative	RFC 2024	Definitions of Managed Objects for Data Link Switching using SMIV2 October, 1996
Normative	RFC 2114	Data Link Switching Client Access Protocol February, 1997

Normative	RFC 2427	Multiprotocol Interconnect over Frame Relay September, 1998
Normative	RFC 2470	Transmission of IPv6 Packets over Token Ring Networks December, 1998
Normative	RFC 2475	An Architecture for Differentiated Services December, 1998
Normative	RFC 2613	Remote Network Monitoring MIB Extensions for Switched Networks Version 1.0 June, 1999
Normative	RFC 2643	Cabletron's SecureFast VLAN Operational Model August, 1999
Normative	RFC 2764	A Framework for IP Based Virtual Private Networks February, 2000
Normative	RFC 2814	SBM (Subnet Bandwidth Manager): A Protocol for RSVP based Admission Control over IEEE 802 style networks May, 2000
Normative	RFC 2815	Integrated Service Mappings on IEEE 802 Networks May, 2000
Normative	RFC 2816	A Framework for Integrated Services Over Shared and Switched IEEE 802 LAN Technologies May, 2000
Normative	RFC 2895	Remote Network Monitoring MIB Protocol Identifier Reference August, 2000
Normative	RFC 3270	Multi Protocol Label Switching (MPLS) Support of Differentiated Services May, 2002
Normative	RFC 3290	An Informal Management Model for Diffserv Routers May, 2002
Normative	RFC 3422	Forwarding Media Access Control (MAC) Frames over Multiple Access Protocol over Synchronous Optical Network/Synchronous Digital Hierarchy (MAPOS) November, 2002
Normative	RFC 3488	Cisco Systems Router port Group Management Protocol (RGMP) February, 2003
Normative	RFC 3518	Point to Point Protocol (PPP) Bridging Control Protocol (BCP) April, 2003
Normative	RFC 4188	Definitions of Managed Objects for Bridges September, 2005
Normative	RFC 4318	Definitions of Managed Objects for Bridges with Rapid Spanning Tree Protocol December, 2005
Normative	RFC 4363	Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual LAN Extensions January, 2006
Normative	RFC 4389	Neighbor Discovery Proxies (ND Proxy) April, 2006
Normative	RFC 4541	Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches May, 2006
Normative	RFC 4675	RADIUS Attributes for Virtual LAN and Priority Support September, 2006
Normative	RFC 4762	Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling January, 2007
Normative	RFC 4837	Managed Objects of Ethernet Passive Optical Networks (EPON) July, 2007
Normative	RFC 4957	Link Layer Event Notifications for Detecting Network Attachments August, 2007
Normative	RFC 5171	Cisco Systems UniDirectional Link Detection (UDLD) Protocol April, 2008
Normative	RFC 5692	Transmission of IP over Ethernet over IEEE 802.16 Networks October, 2009

Normative	RFC 5777	Traffic Classification and Quality of Service (QoS) Attributes for Diameter February, 2010
Normative	RFC 6325	Routing Bridges (RBridges): Base Protocol Specification July, 2011
Normative	RFC 7436	IP Only LAN Service (IPLS) January, 2015
Normative	RFC 7727	Spanning Tree Protocol (STP) Application of the Inter Chassis Communication Protocol (ICCP) January, 2016
Textual	RFC 1299	Summary of 1200 1299 January, 1997
Textual	RFC 1356	Multiprotocol Interconnect on X.25 and ISDN in the Packet Mode August, 1992
Textual	RFC 1499	Summary of 1400 1499 January, 1997
Textual	RFC 2099	Request for Comments Summary RFC Numbers 2000 2099 March, 1997
Textual	RFC 2285	Benchmarking Terminology for LAN Switching Devices February, 1998
Textual	RFC 2467	Transmission of IPv6 Packets over FDDI Networks December, 1998
Textual	RFC 2899	Request for Comments Summary RFC Numbers 2800 2899 May, 2001
Textual	RFC 3512	Configuring Networks and Devices with Simple Network Management Protocol (SNMP) April, 2003
Textual	RFC 3599	Request for Comments Summary RFC Numbers 3500 3599 December, 2003
Textual	RFC 3809	Generic Requirements for Provider Provisioned Virtual Private Networks (PPVPN) June, 2004
Textual	RFC 4149	Definition of Managed Objects for Synthetic Sources for Performance Monitoring Algorithms August, 2005
Textual	RFC 4504	SIP Telephony Device Requirements and Configuration May, 2006
Textual	RFC 4663	Transferring MIB Work from IETF Bridge MIB WG to IEEE 802.1 WG September, 2006
Textual	RFC 4958	A Framework for Supporting Emergency Telecommunications Services (ETS) within a Single Administrative Domain July, 2007
Textual	RFC 5110	Overview of the Internet Multicast Routing Architecture January, 2008
Textual	RFC 5154	IP over IEEE 802.16 Problem Statement and Goals April, 2008
Textual	RFC 6074	Provisioning, Auto Discovery, and Signaling in Layer 2 Virtual Private Networks (L2VPNs) January, 2011
Textual	RFC 6221	Lightweight DHCPv6 Relay Agent May, 2011
Textual	RFC 6850	Definitions of Managed Objects for Routing Bridges (RBridges) January, 2013
Textual	RFC 6933	Entity MIB (Version 4) May, 2013
Textual	RFC 7222	Quality of Service Option for Proxy Mobile IPv6 May, 2014
Textual	RFC 7561	Mapping Quality of Service (QoS) Procedures of Proxy Mobile IPv6 (PMIPv6) and WLAN June, 2015
Textual	RFC 8034	Active Queue Management (AQM) Based on Proportional Integral Controller Enhanced PIE) for Data Over Cable Service

		Interface Specifications (DOCSIS) Cable Modems February, 2018
Textual	RFC 8325	Mapping Diffserv to IEEE 802.11 February, 2018
Textual	RFC 8578	Deterministic Networking Use Cases May, 2019

The procedure for withdrawing the standard involves IEEE 802.1 initiating an IEEE Standards Association (SA) ballot to confirm the withdrawal. We plan to initiate this process by July 2021 at the latest. While only IEEE-SA members may join the SA ballot to vote on this withdrawal, we would take your liaison response into account.

Thank you for your consideration on this topic. We look forward to continued collaboration between our organizations.

Respectfully submitted,  
Glenn Parsons  
Chair, IEEE 802.1 Working Group