Project Number	Project Type	Working Group	Project Title	Scope	PAR Approval Date	PAR Expiration Date	Invitation Close Date	Ballot Close Date	Project Status
P802.1CQ	New	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks: Multicast and Local Address Assignment	This standard specifies protocols, procedures, and management objects for locally-unique assignment of 48-bit and 64-bit addresses in IEEE 802 networks. Peer-to-peer address claiming and address server capabilities are specified.	05 Feb 2016	31 Dec 2022	NA	NA	Draft Development
P60802	New	C/LM/802.1 WG	Time-Sensitive Networking Profile for Industrial Automation	This standard defines time-sensitive networking profiles for industrial automation. The profiles select features, options, configurations, defaults, protocols, and procedures of bridges, end stations, and LANs to build industrial automation networks.	14 May 2018	31 Dec 2022	NA	NA	Draft Development
P802.1DC	New	C/LM/802.1 WG	Quality of Service Provision by Network Systems	This standard specifies procedures and managed objects for Quality of Service (QoS) features specified in IEEE Std 802.1Q, such as per-stream filtering and policing, queuing, transmission selection, flow control and preemption, in a network system which is not a bridge.	14 May 2018	31 Dec 2022	NA	NA	Draft Development
P802.1Qdd	Amendment	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks--Amendment: Resource Allocation Protocol	This amendment specifies protocols, procedures, and managed objects for a Resource Allocation Protocol (RAP) that uses the Link-local Registration Protocol (LRP) and supports and provides backwards compatibility with the stream reservation and quality of service capabilities, controls and protocols specified in IEEE Std 802.1Q. RAP provides support for accurate latency calculation and reporting, can use redundant paths established by other protocols, and is not limited to bridged networks.	27 Sep 2018	31 Dec 2022	NA	NA	Draft Development
P802.1Qcz	Amendment	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks--Amendment: Congestion Isolation	This amendment specifies protocols, procedures and managed objects that support the isolation of congested data flows within data center environments. This is achieved by enabling systems to individually identify flows creating congestion, adjust transmission selection for packets of those flows, and signal to neighbors. This mechanism reduces head-of-line blocking for uncongested flows sharing a traffic class in lossless networks. Congestion Isolation is intended to be used with higher layer protocols that utilize end-to-end congestion control in order to reduce packet loss and latency. This amendment also addresses errors and omissions in the description of existing functionality.	27 Sep 2018	31 Dec 2022	05 Nov 2020	05 Jan 2022	SA Ballot: Comment Resolution
P802.1Qcj	Amendment	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks -- Bridges and Bridged Networks--Amendment: Automatic Attachment to Provider Backbone Bridging (PBB) services	This standard specifies the protocols, procedures and management objects for auto-attachment of network devices to Provider Backbone service instances by using Type, Length, Value (TLVs) within the Link Layer Discovery Protocol (LLDP)	11 Jun 2015	31 Dec 2023	NA	NA	Draft Development
P802.1Qcw	Amendment	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks--Amendment: YANG Data Models for Scheduled Traffic, Frame Preemption, and Per-Stream Filtering and Policing	This amendment specifies a Unified Modeling Language (UML)-based information model and YANG data models that allow configuration and status reporting for bridges and bridge components (as specified by this standard) with the capabilities currently specified in clauses 12.29 (scheduled traffic), 12.30 (frame preemption) and 12.31 (per-stream filtering and policing) of this standard. It further defines the relationship between the information and data model and models for the other management capabilities specified in this standard. Additionally, this amendment will address errors or omissions to existing features related to the aforementioned clauses.	28 Sep 2017	31 Dec 2023	NA	NA	Draft Development
P802.1DF	New	C/LM/802.1 WG	Time-Sensitive Networking Profile for Service Provider Networks	This standard defines profiles of IEEE Std 802.1Q and IEEE Std 802.1CB that provide Time-Sensitive Networking (TSN) quality of service features for non-fronthaul shared service provider networks. The standard also provides use cases, and informative guidance for network operators on how to configure their networks for those use cases.	08 Feb 2019	31 Dec 2023	NA	NA	Draft Development
P802.1DG	New	C/LM/802.1 WG	Time-Sensitive Networking Profile for Automotive In-Vehicle Ethernet Communications	This standard specifies profiles for secure, highly reliable, deterministic latency, automotive in-vehicle bridged IEEE 802.3 Ethernet networks based on IEEE 802.1 Time-Sensitive Networking (TSN) standards and IEEE 802.1 Security standards.	08 Feb 2019	31 Dec 2023	NA	NA	Draft Development

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P802.1Qdj	Amendment	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks--Amendment: Configuration Enhancements for Time-Sensitive Networking	This amendment specifies procedures, interfaces, and managed objects to enhance the three models of 'Time-Sensitive Networking (TSN) configuration'. It specifies enhancements to the User/Network Interface (UNI) to include new capabilities to support bridges and end stations in order to extend the configuration capability. This amendment preserves the existing separation between configuration models and protocol specifications. This amendment also addresses errors and omissions in the description of existing functionality.	05 Sep 2019	31 Dec 2023	NA	NA	Draft Development
P802.1AEdk	Amendment	C/LM/802.1 WG	Standard for Local and metropolitan area networks-Media Access Control (MAC) Security--Amendment 4: MAC Privacy protection	This amendment specifies privacy enhancements that complement existing IEEE Std 802.1AE MAC Security capabilities, and reduce the ability of external observers to correlate user data frames, their sizes, transmission timing and transmission frequency with users identities and activities. It specifies an encapsulation format that allows one or more user data frames and padding octets to be carried within the confidentiality protected data of consolidating frames, hiding the users MAC addresses and original frame sizes. The transmitter can balance the privacy improvement against the loss of efficiency and delay by controlling the sizes of consolidating frames and when they are transmitted. YANG configuration and operational state models are defined both for the existing functionality of IEEE Std 802.1AE and for the functionality to be added by this project. An SNMP MIB will be defined for the added functionality. This amendment also describes privacy considerations for the use, design, and deployment of bridged networks. This project includes technical and editorial corrections to existing IEEE Std 802.1AE functionality.	13 Feb 2020	31 Dec 2024	NA	NA	Draft Development
P802f	Amendment	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks: Overview and Architecture--Amendment: YANG Data Model for EtherTypes	This amendment specifies YANG modules that contain the EtherType information, including a compact human-readable name and description. The name and description for an initial set of EtherTypes are defined for inclusion in the IEEE Registration Authority EtherType public listing. This amendment also addresses errors and omissions in IEEE Std 802 description of existing functionality.	13 Feb 2020	31 Dec 2024	NA	NA	Draft Development
P802.1ASdm	Amendment	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks - Timing and Synchronization for Time-Sensitive Applications--Amendment: Hot Standby	This amendment specifies protocols, procedures, and managed objects for hot standby without use of the Best Master Clock Algorithm (BMCA), for time-aware systems, including: - A function that transforms the synchronized times of two generalized Precision Time Protocol (gPTP) domains into one synchronized time for use by applications; - A function that directs the synchronized time of one gPTP domain into a different gPTP domain; and - Mechanisms that determine whether a gPTP domain has sufficient quality to be used for hot standby. This amendment also addresses errors and omissions in the description of existing functionality.	03 Jun 2020	31 Dec 2024	NA	NA	Draft Development
P802.1Q	Revision	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks	This standard specifies Bridges that interconnect individual LANs, each supporting the IEEE 802 MAC Service using a different or identical media access control method, to provide Bridged Networks and VLANs.	03 Jun 2020	31 Dec 2024	20 Jun 2021	08 Oct 2021	SA Ballot: Comment Resolution
P802.1ASdn	Amendment	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks - Timing and Synchronization for Time-Sensitive Applications--Amendment: YANG Data Model	This amendment specifies a YANG data model that allows configuring and state reporting for all managed objects of the base standard. This amendment specifies a Unified Modeling Language (UML)-based figure to explain the managed objects and the associated YANG data model.	24 Sep 2020	31 Dec 2024	NA	NA	Draft Development

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P802.1DP	New	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks – Time-Sensitive Networking for Aerospace Onboard Ethernet Communications	This standard specifies profiles of IEEE 802.1 Time-Sensitive Networking (TSN) and IEEE 802.1 Security standards for aerospace onboard bridged IEEE 802.3 Ethernet networks. The profiles select features, options, configurations, defaults, protocols, and procedures of bridges, end stations, and Local Area Networks to build deterministic networks for aerospace onboard communications.	03 Dec 2020	31 Dec 2024	NA	NA	Draft Development
P802.1Qdq	Amendment	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks--Amendment: Shaper Parameter Settings for Bursty Traffic Requiring Bounded Latency	This amendment adds an informative annex that describes recommended shaper parameter settings for bursty traffic requiring bounded latency.	21 May 2021	31 Dec 2025	NA	NA	Draft Development
P802.1ASdr	Amendment	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks--Timing and Synchronization for Time-Sensitive Applications--Amendment: Inclusive Terminology	This amendment changes the non-inclusive, insensitive, and deprecated terminology including those identified by IEEE P1588g and IEEE editorial staff, replacing them with their suitable terminology wherever possible.	25 Mar 2021	31 Dec 2025	NA	NA	Draft Development
P802.1ASds	Amendment	C/LM/802.1 WG	Standard for Local and Metropolitan Area Networks--Timing and Synchronization for Time-Sensitive Applications--Amendment: Support for the IEEE Std 802.3 Clause 4 Media Access Control (MAC) operating in half-duplex	This amendment specifies protocols, procedures, and managed objects that support IEEE Std 802.3 Clause 4 Media Access Control (MAC) operating in half-duplex while retaining existing functionality and backward compatibility, and remaining a profile of IEEE Std 1588™-2019. This amendment addresses errors and omissions in the description of existing functionality.	23 Feb 2022	31 Dec 2026	NA	NA	Draft Development
P802.11bb	Amendment	C/LM/802.11 WG	Standard for Information Technology--Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks--Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications--Amendment: Light Communications	This amendment specifies a new PHY layer and modifications to the IEEE 802.11 MAC that enable operation of wireless light communications (LC). This amendment specifies a PHY that provides: 1) Uplink and downlink operations in 800 nm to 1,000 nm band, 2) All modes of operation achieve minimum single-link throughput of 10 Mb/s as measured at the MAC data service access point (SAP), 3) Interoperability among solid state light sources with different modulation bandwidths. This amendment specifies changes to the IEEE 802.11 MAC that are limited to the following: 1) Hybrid coordination function (HCF) channel access, 2) Overlapping basic service set (OBSS) detection and coexistence, 3) Existing power management modes of operation (excluding new modes), and modifications to other clauses necessary to support these changes.	23 Feb 2022	31 Dec 2022	NA	NA	Draft Development
P802.11bc	Amendment	C/LM/802.11 WG	Standard for Information technology--Telecommunications and information exchange between systems Local and metropolitan area networks--Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications--Amendment: Enhanced Broadcast Service	This amendment specifies modifications to the IEEE 802.11 medium access control (MAC) specifications that enable enhanced transmission and reception of broadcast data both in an infrastructure BSS where there is an association between the transmitter and the receiver(s) and in cases where there is no association between transmitter(s) and receiver(s). This amendment introduces origin authenticity protection for broadcast data frames.	05 Dec 2018	31 Dec 2022	NA	NA	Draft Development

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P802.11bd	Amendment	C/LM/802.11 WG	Standard for Information technology--Telecommunications and information exchange between systems Local and metropolitan area networks--Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications--Amendment: Enhancements for Next Generation V2X	This amendment defines modifications to both the IEEE 802.11 Medium Access Control layer (MAC) and Physical Layers (PHY) for vehicle to everything (V2X) communications for 5.9 GHz band as defined in clauses E.2.3 and E.2.4 of IEEE Std 802.11(TM)-2016; and, optionally, in the 60 GHz frequency band (57 GHz to 71 GHz) as defined in clause E.1 of IEEE Std 802.11(TM)-2016. This amendment defines at least one mode that achieves at least 2 times higher throughput (measured at the MAC data service access point) than as in IEEE Std 802.11(TM)-2016 operating at maximum mandatory data rate as defined in the 5.9 GHz band (12 Mb/s in a 10 MHz channel), in high mobility channel environments at vehicle speeds up to 250 km/h (closing speeds up to 500 km/h); this amendment also defines at least one mode that achieves at least 3dB lower sensitivity level (longer range), than that of the lowest data rate defined in IEEE Std 802.11(TM)-2016 operating in 5.9 GHz band (3 Mb/s in a 10 MHz channel); and this amendment defines procedures for at least one form of positioning in conjunction with V2X communications. This amendment shall provide interoperability, coexistence, backward compatibility, and fairness with deployed OCB (Outside the Context of a BSS) devices.	05 Dec 2018	31 Dec 2022	02 Dec 2021	NA	SA Ballot: Pre-Ballot
P802.11az	Amendment	C/LM/802.11 WG	Standard for Information Technology - Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks - Specific Requirements Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Enhancements for Positioning	This amendment defines modifications to both the IEEE 802.11 medium access control layer (MAC) and physical layers (PHY) of High Throughput (HT), Very High Throughput (VHT), Directional Multi Gigabit (DMG) and PHYs under concurrent development (e.g. High Efficiency WLAN (HEW), Next Generation 60GHz (NG60)) that enables determination of absolute and relative position with better accuracy than the Fine Timing Measurement (FTM) protocol executing on the same PHY-type, while reducing existing wireless medium use and power consumption and is scalable to dense deployments. This amendment also defines modifications that enable secured exchange of measurement and positioning information. This amendment requires backward compatibility and coexistence with legacy devices. Backward compatibility with legacy 802.11 devices implies that devices implementing this amendment shall (a) maintain data communication compatibility and (b) support the Fine Timing Measurement (FTM) protocol.	15 Feb 2018	31 Dec 2023	19 Aug 2021	05 Nov 2021	SA Ballot: Comment Resolution
P802.11be	Amendment	C/LM/802.11 WG	Standard for Information technology--Telecommunications and information exchange between systems Local and metropolitan area networks--Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications--Amendment: Enhancements for Extremely High Throughput (EHT)	This amendment defines standardized modifications to both the IEEE Std 802.11 physical layers (PHY) and the Medium Access Control Layer (MAC) that enable at least one mode of operation capable of supporting a maximum throughput of at least 30 Gbps, as measured at the MAC data service access point (SAP), with carrier frequency operation between 1 and 7.250 GHz while ensuring backward compatibility and coexistence with legacy IEEE Std 802.11 compliant devices operating in the 2.4 GHz, 5 GHz, and 6 GHz bands. This amendment defines at least one mode of operation capable of improved worst case latency and jitter.	21 Mar 2019	31 Dec 2023	NA	NA	Draft Development

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P802.11bf	Amendment	C/LM/802.11 WG	Standard for Information Technology -- Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks -- Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications-- Amendment: Enhancements for Wireless Local Area Network (WLAN) Sensing	This amendment defines modifications to the IEEE 802.11 medium access control layer (MAC) and to the Directional Multi Gigabit (DMG) and enhanced DMG (EDMG) PHYs to enhance Wireless Local Area Network (WLAN) sensing (SENS) operation in license-exempt frequency bands between 1 GHz and 7.125 GHz and above 45 GHz. This amendment enables: • Stations to perform one or more of the following: to inform other stations of their WLAN sensing capabilities, to request and setup transmissions that allow for WLAN sensing measurements to be performed, to indicate that a transmission can be used for WLAN sensing, and to exchange WLAN sensing feedback and information, • WLAN sensing measurements to be obtained using transmissions that are requested, unsolicited, or both, and • A MAC service interface for layers above the MAC to request and retrieve WLAN sensing measurements. This amendment defines modifications to the PHY service interface of the High Throughput (HT), Very High Throughput (VHT), High Efficiency (HE) and Extremely High Throughput (EHT) PHYs. This amendment provides backward compatibility and coexistence with legacy IEEE 802.11 devices operating in the same band.	24 Sep 2020	31 Dec 2024	NA	NA	Draft Development
P802.11bh	Amendment	C/LM/802.11 WG	Standard for Information Technology-- Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks--Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment: Operation with Randomized and Changing MAC Addresses	This amendment specifies modifications to the medium access control (MAC) mechanisms to preserve the existing services that might otherwise be restricted in environments where STAs in an Extended Service Set (ESS) use randomized or changing MAC addresses, without affecting user privacy. User privacy includes exposure of trackable information to third parties or exposure of an individual's presence or behavior. This amendment introduces mechanisms to enable session continuity in the absence of unique MAC address-to-STA mapping. For STAs in an ESS that use randomized or changing MAC addresses, this amendment preserves the ability to provide customer support, conduct network diagnostics and troubleshooting, and detect device arrival in a trusted environment.	10 Feb 2021	31 Dec 2025	NA	NA	Draft Development
P802.11bi	Amendment	C/LM/802.11 WG	Standard for Information Technology-- Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks--Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment: Enhanced Service with Data Privacy Protection	This amendment specifies modifications to the IEEE Std 802.11 medium access control (MAC) specification to specify new mechanisms that address and improve user privacy.	10 Feb 2021	31 Dec 2025	NA	NA	Draft Development
P802.11	Revision	C/LM/802.11 WG	Standard for Information Technology -- Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks -- Specific Requirements - Part 11: Wireless Local Area Network (LAN) Medium Access Control (MAC) and Physical Layer (PHY) Specifications	The scope of this standard is to define one medium access control (MAC) and several physical layer (PHY) specifications for wireless connectivity for fixed, portable, and moving stations (STAs) within a local area.	10 Feb 2021	31 Dec 2025	NA	NA	Draft Development

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P802.11-2020/Cor 1	Corrigendum	C/LM/802.11 WG	Standard for Information Technology--Telecommunications and Information Exchange between Systems - Local and Metropolitan Area Networks--Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Corrigendum 1 -- Correct IEEE 802.11ay Assignment of Protected Announce Support bit	This Corrigendum corrects an error in the published IEEE Std 802.11ay-2021. In subclause 9.4.2.241, Table 9-321 of IEEE Std 802.11ay-2021, the Protected Announce Support bit is reassigned.	23 Feb 2022	31 Dec 2026	NA	NA	Draft Development
P802.15.13	New	C/LM/802.15 WG	Standard for Multi-Gigabit per Second Optical Wireless Communications (OWC), with Ranges up to 200 meters, for both stationary and mobile devices	This standard defines a Physical (PHY) and Media Access Control (MAC) layer using light wavelengths from 10 000 nm to 190 nm in optically transparent media for optical wireless communications. The standard is capable of delivering data rates up to 10 Gb/s at distances in the range of 200 m unrestricted line of sight. It is designed for point to point and point to multi point communications in both non-coordinated and coordinated topologies. For coordinated topologies with more than one peer coordinator there will be a master coordinator. The standard includes adaptation to varying channel conditions and maintaining connectivity while moving within the range of a single coordinator or moving between coordinators.	03 Jun 2020	31 Dec 2022	29 Oct 2020	22 Jan 2022	SA Ballot: Comment Resolution
P802.15.12	New	C/LM/802.15 WG	Upper Layer Interface (ULI) for IEEE 802.15.4 Low-Rate Wireless Networks	This standard defines an Upper Layer Interface (ULI) sublayer in Layer 2 (L2), between Layer 3 (L3) and the IEEE 802.15.4 Media Access Control (MAC) sublayer. The ULI provides data and management service access points (SAPs) for interface to the IEEE 802.15.4 MAC. The ULI adapts L3 protocols and provides operational configuration including network and radio regulation requirements of the IEEE 802.15.4 MAC. Furthermore, the ULI integrates optional upper Layer 2 functionalities focused on interfacing to the IEEE 802.15.4 MAC such as Key Management Protocols (KMPs), L2 routing (L2R) protocols, L2 fragmentation, and Internet Engineering Task Force (IETF) IPv6 over the TimeSlotted Channel Hopping (TSCH) mode of IEEE Std 802.15.4 (6TiSCH) Operation Protocol (6TOP). Finally, the ULI provides protocol differentiation, using mechanisms such as EtherType Protocol Differentiation (EPD) to support multiple, diverse higher layer protocols, and header compression.	12 May 2016	31 Dec 2022	NA	NA	Draft Development
P802.15.7a	Amendment	C/LM/802.15 WG	Standard for Local and Metropolitan Area Networks - Part 15.7: Short-Range Optical Wireless Communications--Amendment: Higher Speed, Longer Range Optical Camera Communication (OCC)	This amendment defines a high-rate Optical Camera Communications (OCC) Physical Layer (PHY) using light wavelengths from 10 000 nm to 190 nm in optically transparent media. It is capable of delivering data rates up to 100 Mb/s and is designed for point-to-point and point-to-multipoint communication. Adaptation to varying channel conditions and maintaining connectivity during high mobility (speeds up to 350 km/h), flicker mitigation, RF co-existence, and a communication range of up to 200 m, are included. MIMO (e.g. MIMO-OFDM) is utilized to deal with high-levels of optical interference while maintaining high-rate data transmission. Relaying mechanisms are included enabling heterogeneous operation with existing RF wireless data communications standards. The Amendment adheres to applicable eye safety regulations.	24 Sep 2020	31 Dec 2024	NA	NA	Draft Development

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P802.16t	Amendment	C/LM/802.15 WG	Standard for Air Interface for Broadband Wireless Access Systems Amendment - Fixed and Mobile Wireless Access in Narrowband Channels	This project specifies operation in licensed spectrum with channel bandwidths greater than or equal to 5 kHz and less than 100 kHz. The project specifies a new PHY, and changes to the MAC as necessary to support the PHY. The amendment is frequency independent but focuses on spectrum less than 2 GHz. The range and data rate supported by the narrower channels are commensurate with those of the base standard, as scaled by the reduced channel bandwidth. The project also amends IEEE Std 802.16 as required to support aggregated operation in adjacent and non-adjacent channels.	03 Dec 2020	31 Dec 2024	NA	NA	Draft Development
P802.15.4-2020/Cor 1	Corrigendum	C/LM/802.15 WG	Standard for Low-Rate Wireless Networks - Corrigendum 1 Correction of errors preventing backward compatibility	This corrigendum addresses significant errors found in IEEE Std 802.15.4-2020 and its amendments.	23 Sep 2021	31 Dec 2024	NA	NA	Draft Development
P802.15.4ab	Amendment	C/LM/802.15 WG	Standard for Low-Rate Wireless Network --Amendment: Enhanced Ultra Wide-Band (UWB) Physical Layers (PHYs) and Associated Medium Access and Control (MAC) sublayer Enhancements	This amendment enhances the Ultra Wideband (UWB) physical layers (PHYs) medium access control (MAC), and associated ranging techniques while retaining backward compatibility with enhanced ranging capable devices (ERDEVs). Areas of enhancement include: additional coding, preamble and modulation schemes to additional coding, preamble and modulation schemes to support improved link budget and/or reduced air-time relative to IEEE Std 802.15.4 UWB; additional channels and operating frequencies; interference mitigation techniques to support greater device density and higher traffic use cases relative to the IEEE Std 802.15.4 UWB; improvements to accuracy, precision and reliability and interoperability for high-integrity ranging; schemes to reduce complexity and power consumption; definitions for tightly coupled hybrid operation with narrowband signaling to assist UWB; enhanced native discovery and connection setup mechanisms; sensing capabilities to support presence detection and environment mapping; and mechanisms supporting low-power low-latency streaming as well as high data-rate streaming allowing at least 50 Mb/s of throughput. Support for peer-to-peer, peer-to-multi-peer, and station-to-infrastructure protocols are in scope, as are infrastructure synchronization mechanisms. This amendment includes safeguards so that the high throughput data use cases do not cause significant disruption to low duty-cycle ranging use cases.	23 Sep 2021	31 Dec 2025	NA	NA	Draft Development

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P802.15.6a	Amendment	C/LM/802.15 WG	Standard for Local and Metropolitan Area Networks - Part 15.6: Wireless Body Area Networks--Amendment: Dependable Human and Vehicle Body Area Networks	This amendment enhances the Ultra-Wideband (UWB) physical layer (PHY) and medium access control (MAC) to support enhanced dependability to human body area networks (HBAN) and adds support for vehicle body area networks (VBAN), a coordinator in a vehicle with devices around the cabin room, operating under strict compliance to standards and limits for electromagnetic compatibility (EMC) and electromagnetic interference (EMI). Areas of enhancement: multiple piconets coexisting, which includes inter-Body Area Network (inter-BAN) interference for both HBAN and VBAN and inter-piconets interference; simpler and more reliable MAC protocol; sensing and feedback control loop delay. Enhancements to dependability include protection against interference in critical use cases such as overlaid with other BAN and/or different piconet; support of higher performance requirement of reliability, security, coexistence and efficiency in the operation and maintenance of HBAN and VBAN. P802.15.6a incorporates support for infrastructure protocols via an access point. The amendment provides safeguards so that high throughput data use cases do not cause significant disruption to low duty-cycle ranging use cases.	23 Sep 2021	31 Dec 2025	NA	NA	Draft Development
P802.15.14	New	C/LM/802.15 WG	Standard for Impulse Radio Ultra Wideband Wireless Ad Hoc Networks	This standard specifies the physical layer (PHY) and media access control sublayer (MAC) for impulse radio ultra wideband (UWB) wireless ad hoc connectivity with fixed, portable, and moving devices with limited energy consumption requirements, and supports real time precision ranging capability that is accurate to within a few centimeters. PHYs are defined for devices operating in a variety of regulatory domains.	23 Sep 2021	31 Dec 2025	NA	NA	Draft Development
P802.15.15	New	C/LM/802.15 WG	Standard for Wireless Ad Hoc Networks	This standard specifies the physical layer (PHY) and medium access control (MAC) sublayer for wireless ad hoc network connectivity with fixed, portable, and moving devices with very low energy consumption requirements. PHYs are defined for devices operating in a variety of regulatory domains.	23 Sep 2021	31 Dec 2025	NA	NA	Draft Development
P802.15.3	Revision	C/LM/802.15 WG	Standard for Wireless Multi-Media Networks	This standard defines PHY and MAC specifications for high data rate wireless connectivity (typically over 200 Mb/s) with fixed, portable, and moving devices. Data rates are high enough to satisfy a set of consumer multimedia industry needs, as well as to support emerging wireless switched point-to-point and high rate close proximity point-to-point applications.	08 Dec 2021	31 Dec 2025	NA	NA	Draft Development
P802.3ck	Amendment	C/LM/802.3 WG	Standard for Ethernet--Amendment: Physical Layer Specifications and Management Parameters for 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Based on 100 Gb/s Signaling	This project is to specify additions to and appropriate modifications of IEEE Std 802.3 to add Physical Layer specifications and Management Parameters for 100 Gb/s, 200 Gb/s, and 400 Gb/s electrical interfaces based on 100 Gb/s signaling.	14 May 2018	31 Dec 2022	26 Nov 2021	09 Jan 2022	SA Ballot: Comment Resolution
P802.3cs	Amendment	C/LM/802.3 WG	Standard for Ethernet--Amendment: Physical Layers and management parameters for increased-reach point-to-multipoint Ethernet optical subscriber access (Super-PON)	This amendment adds physical layer specifications and management parameters for optical subscriber access supporting point-to-multipoint operations using wavelength division multiplexing over an increased-reach (up to at least 50 km) passive optical network (PON).	05 Dec 2018	31 Dec 2022	27 Nov 2021	15 Feb 2022	SA Ballot: Comment Resolution
P802.3cw	Amendment	C/LM/802.3 WG	Standard for Ethernet--Amendment: Physical Layers and Management Parameters for 400 Gb/s Operation over DWDM (dense wavelength division multiplexing) systems	Define physical layer specifications and management parameters for the transfer of Ethernet format frames at 400 Gb/s at reaches greater than 10 km over DWDM systems.	13 Feb 2020	31 Dec 2024	NA	NA	Draft Development

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P802.3cx	Amendment	C/LM/802.3 WG	Standard for Ethernet--Amendment: Media Access Control (MAC) service interface and management parameters to support improved Precision Time Protocol (PTP) timestamping accuracy	Define optional enhancements to Ethernet support for time synchronization protocols to provide improved timestamp accuracy in support of ITU-T Recommendation G.8273.2 'Class C' and 'Class D' system time error performance requirements.	13 Feb 2020	31 Dec 2024	NA	NA	Draft Development
P802.3cz	Amendment	C/LM/802.3 WG	Standard for Ethernet--Amendment: Physical Layer Specifications and Management Parameters for Multi-Gigabit Optical Automotive Ethernet	Specify additions to and appropriate modifications of IEEE Std 802.3 to add Physical Layer specifications and management parameters for multi-gigabit optical Ethernet for application in the automotive environment.	03 Jun 2020	31 Dec 2024	NA	NA	Draft Development
P802.3cy	Amendment	C/LM/802.3 WG	Standard for Ethernet--Amendment: Physical Layer Specifications and Management Parameters for greater than 10 Gb/s Electrical Automotive Ethernet	Specify additions to and appropriate modifications of IEEE Std 802.3 to add greater than 10 Gb/s electrical Physical Layer specifications for symmetrical and asymmetrical operation and management parameters for media and operating conditions for applications in the automotive environment.	03 Jun 2020	31 Dec 2024	NA	NA	Draft Development
P802.3db	Amendment	C/LM/802.3 WG	Standard for Ethernet--Amendment: Physical Layer Specifications and Management Parameters for 100 Gb/s, 200 Gb/s, and 400 Gb/s Operation over Optical Fiber using 100 Gb/s Signaling	This project specifies additions to and appropriate modifications of IEEE Std 802.3 and adds Physical Layer specifications and management parameters for 100 Gb/s, 200 Gb/s, and 400 Gb/s Ethernet optical interfaces for server attachment and other intra-data center applications using 100 Gb/s signaling over optical fiber.	03 Jun 2020	31 Dec 2024	13 Feb 2022	NA	SA Ballot: Pre-Ballot
P802.3da	Amendment	C/LM/802.3 WG	Standard for Ethernet--Amendment: Physical Layer Specifications and Management Parameters for Enhancement of 10 Mb/s Operation over Single Balanced Pair Multidrop Segments	Specify additions and modifications of the Physical Layer (including reconciliation sublayers), management parameters, Ethernet support for time synchronization protocols, and optional power delivery supporting multiple powered devices on the 10 Mb/s mixing segment.	03 Jun 2020	31 Dec 2024	NA	NA	Draft Development
P802.3	Revision	C/LM/802.3 WG	Standard for Ethernet	This standard defines Ethernet local area, access and metropolitan area networks. Ethernet is specified at selected speeds of operation; and uses a common media access control (MAC) specification and management information base (MIB). The Carrier Sense Multiple Access with Collision Detection (CSMA/CD) MAC protocol specifies shared medium (half duplex) operation, as well as full duplex operation. Speed specific Media Independent Interfaces (MIIs) provide an architectural and optional implementation interface to selected Physical Layer entities (PHY). The Physical Layer encodes frames for transmission and decodes received frames with the modulation specified for the speed of operation, transmission medium and supported link length. Other specified capabilities include: control and management protocols, and the provision of power over selected twisted pair PHY types.	24 Sep 2020	31 Dec 2024	26 Nov 2021	02 Mar 2022	SA Ballot: Recirculation
P802.3dd	Amendment	C/LM/802.3 WG	Standard for Ethernet--Amendment: Maintenance #17: Power over Data Lines of Single Pair Ethernet	This project implements editorial and technical corrections, refinements, and clarifications to Clause 104, Power over Data Lines (PoDL) of Single-Pair Ethernet, and related portions of the standard. No new features are added by this project.	25 Mar 2021	31 Dec 2025	15 Dec 2021	21 Feb 2022	SA Ballot: Comment Resolution
P802.3de	Amendment	C/LM/802.3 WG	Standard for Ethernet--Amendment: Enhancements to the MAC Merge function and the Time Synchronization Service Interface (TSSI) to Include Point-to-Point 10 Mb/s Single Pair Ethernet	Specify additions to and appropriate modifications of the IEEE Std 802.3 MAC Merge function and the Time Synchronization Service Interface (TSSI) to support 10 Mb/s Single Pair Ethernet point to point PHYs. Extend IEEE Std 802.3 to add 10 Mb/s Single Pair Ethernet point to point PHYs to the PHYs supporting the MAC Merge function and the Time Synchronization Service Interface (TSSI).	23 Sep 2021	31 Dec 2025	04 Feb 2022	NA	SA Ballot: Pre-Ballot

Project Number	Project Type	Working Group	Project Title	Scope	PAR Approval Date	PAR Expiration Date	Invitation Close Date	Ballot Close Date	Project Status
P802.3df	Amendment	C/LM/802.3 WG	Standard for Ethernet--Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Operation	Define Ethernet MAC parameters, physical layer specifications, and management parameters for the transfer of Ethernet format frames at 800 Gb/s and 1.6 Tb/s over copper, multi-mode fiber, and single-mode fiber, and use this work to define derivative physical layer specifications and management parameters for the transfer of Ethernet format frames at 200 Gb/s and 400 Gb/s.	08 Dec 2021	31 Dec 2025	NA	NA	Draft Development