# INTERNATIONAL STANDARD

ISO/IEC/ IEEE 8802-3

Third edition 2021-02

Telecommunications and exchange between information technology systems — Requirements for local and metropolitan area networks —

Part 3:

**Standard for Ethernet** 

Télécommunications et échange entre systèmes informatiques — Exigences pour les réseaux locaux et métropolitains —

Partie 3: Norme pour Ethernet

ISO/IEC/IEEE 8802-3:2021

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Published in Switzerland

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ISO/IEC/IEEE 8802-3 was prepared by the LAN/MAN of the IEEE Computer Society (as IEEE Std 8802-3: 2018) and drafted in accordance with its editorial rules. It was adopted, under the "fast-track procedure" defined in the Partner Standards Development Organization cooperation agreement between ISO and IEEE, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

This third edition cancels and replaces the second edition (ISO/IEC/IEEE 8802-3:2017), which has been technically revised. It also incorporates the Amendments ISO/IEC/IEEE 8802-3:2017/Amd 1:2017, ISO/IEC/IEEE 8802-3:2017/Amd 2:2017, ISO/IEC/IEEE 8802-3:2017/Amd 3:2017, ISO/IEC/IEEE 8802-3:2017/Amd 4:2017, ISO/IEC/IEEE 8802-3:2017/Amd 5:2017, ISO/IEC/IEEE 8802-3:2017/Amd 6:2018, ISO/IEC/IEEE 8802-3:2017/Amd 7:2017, ISO/IEC/IEEE 8802-3:2017/Amd 8:2018, ISO/IEC/IEEE 8802-3:2017/Amd 9:2018, ISO/IEC/IEEE 8802-3:2017/Amd 9:2018, ISO/IEC/IEEE 8802-3:2017/Amd 10:2019, ISO/IEC/IEEE 8802-3:2017/Amd 11:2019 and the Technical Corrigendum ISO/IEC/IEEE 8802-3:2017/Cor 1:2018.

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Abstract: Ethernet local area network operation is specified for selected speeds of operation from 1 Mb/s to 400 Gb/s using 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) allow use of selected Physical Layer devices (PHY) for operation over coaxial, twisted pair or fiber optic cables, or electrical backplanes. System considerations for multisegment shared access networks describe the use of Repeaters that are defined for operational speeds up to 1000 Mb/s. Local Area Network (LAN) operation is supported at all speeds. Other specified capabilities include: various PHY types for access networks, PHYs suitable for metropolitan area network applications, and the provision of power over selected twisted pair PHY types.

Keywords: 2.5 Gigabit Ethernet; 5 Gigabit Ethernet; 10 Gigabit Ethernet; 25 Gigabit Ethernet; 40 Gigabit Ethernet; 100 Gigabit Ethernet; 200 Gigabit Ethernet; 400 Gigabit Ethernet; attachment unit interface; AUI: Auto-Negotiation: Backplane Ethernet; data processing; DTE Power via the MDI; Energy Efficient Ethernet; EPoC; EPON; EPON Protocol over Coax; Ethernet; Ethernet in the First Mile; Ethernet passive optical network; express traffic; Fast Ethernet; Gigabit Ethernet; IEEE 802.3™; information exchange; LAN; local area network; management; MDI; medium dependent interface; media independent interface; MIB; MII; MPMC; multi-point MAC control; PCS; PHY; physical coding sublayer; Physical Layer; physical medium attachment; physical medium dependent; PMA; PMD; PoDL; Power over Data Lines; Power over Ethernet; reconciliation sublayer; repeater; RS; type field; VLAN tag

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PDF. ISBN 978-1-5044-5090-4 STD23246 Print: ISBN 978-1-5044-5091-1 STDPD23246

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#### **Participants**

The following individuals were officers and members of the IEEE 802.3 working group at the beginning of the IEEE 802.3cj working group ballot.

David J. Law, IEEE 802.3 Working Group Chair Adam Healey, IEEE 802.3 Working Group Vice-Chair Pete Anslow, IEEE 802.3 Working Group Secretary Steven B. Carlson, IEEE 802.3 Working Group Executive Secretary Valerie Maguire, IEEE 802.3 Working Group Treasurer

Adam Healey, IEEE P802.3 (IEEE 802.3cj) Task Force Chair and Editor-in-Chief
Pete Anslow, IEEE P802.3 (IEEE 802.3cj) Task Force Section Editor
Marek Hajduczenia, IEEE P802.3 (IEEE 802.3cj) Task Force Section Editor

#### **Historical participants**

The following individuals participated in the IEEE 802.3 working group during various stages of the standard's development. Since the initial publication, many IEEE standards have added functionality or provided updates to material included in this standard. Included is a historical list of participants who have dedicated their valuable time, energy, and knowledge to the creation of this material:

IEEE Std 802.3 document	Date approved by IEEE	Working Group officers, Task Force Chair, and Task Force Editors as listed in the document
IEEE Std 802.3-1985, Original 10 Mb/s standard, MAC, PLS, AUI, 10BASE5	23 June 1983	Donald C. Loughry, Working Group Chair
IEEE Std 802.3b-1985 (Clause 11), 10 Mb/s Broadband MAU, 10BROAD36	19 September 1985	Donald C. Loughry, Working Group Chair Menachem Abraham, Task Force Chair
IEEE Std 802.3a-1988 (Clause 10), 10 Mb/s MAU 10BASE2	15 November 1985 E 88 8/iso/5730621b-17b	Donald C. Loughry, Working Group Chair Alan Flatman, Task Force Chair
IEEE Std 802.3c-1985 (9.1–9.8), 10 Mb/s Baseband Repeater	12 December 1985	Donald C. Loughry, Working Group Chair Geoffrey O. Thompson, Task Force Chair
IEEE Std 802.3e-1987 (Clause 12), 1 Mb/s MAU and Hub 1BASE5	11 June 1987	Donald C. Loughry, Working Group Chair Robert Galin, Task Force Chair
IEEE Std 802.3d-1987 (9.9), 10 Mb/s Fiber MAU, FOIRL	10 December 1987	Donald C. Loughry, Working Group Chair Steven Moustakas, Task Force Chair
IEEE Std 802.3h-1990 (Clause 5), 10 Mb/s Layer Management, DTEs	28 September 1990	Donald C. Loughry, Working Group Chair Andy J. Luque, Task Force Chair
IEEE Std 802.3i-1990 (Clauses 13 and 14), 10 Mb/s UTP MAU, 10 BASE-T	28 September 1990	Donald C. Loughry, Working Group Chair Patricia Thaler, Task Force Chair (initial) Richard Anderson, Task Force Chair (final)
IEEE Std 802.3k-1993 (Clause 19), 10 Mb/s Layer Management, Repeaters	17 September 1992	Patricia Thaler, Working Group Chair Joseph S. Skorupa, Task Force Chair Geoffrey O. Thompson, Vice Chair and Editor
IEEE Std 802.3/-1992 (14.10), 10 Mb/s PICS Proforma 10BASE-T MAU	17 September 1992	Patricia Thaler, Working Group Chair Mike Armstrong, Task Force Chair and Editor Paul Nikolich, Vice Chair William Randle, Editorial Coordinator

IEEE Std 802.3p-1993 (Clause 20), Management, 10 Mb/s Integrated MAUS			
Clause 20, Management, 10 Mb/s Integrated MAUS     IEEE Std 802 3q-1993 (Clause 5, 10 Mb/s Layer	IEEE Std 802.3 document		
Clauses 5, 10 Mb/s Layer	(Clause 20), Management, 10	17 June 1993	Joseph S. Skorupa, Task Force Chair
Cclauses 13-18), 10 Mb/s   Fiber MALD     IOBASE-FP, 10BASE-FB, and 10BASE-FP.     IEEE Std \$02.3t-1995, 120 Ω     Informative annex to     IOBASE-TD     IEEE Std \$02.3t-1995     IClauses 13-190, 17pe     IOBASE-TMAC parameters, Physical Layer, MAUS, and Repeater for 100 Mb/s Operation     IEEE Std \$02.3m-1995     IEEE Std \$02.3m-1995     Maintenance 2     IEEE Std \$02.3m-1995     Maintenance 3     IEEE Std \$02.3m-1995     Maintenance 3     IEEE Std \$02.3m-1995     Maintenance 3     IEEE Std \$02.3m-1995     Maintenance 4     IEEE Std \$02.3m-1995     Maintenance 5     IEEE Std \$02.3m-1995     Maintenance 6     IEEE Std \$02.3m-1995     Maintenance 7     IEEE Std \$02.3m-1996     IEEE Std \$02.3m-1997     IEEE Std \$02.3m-1997     IEEE Std \$02.3m-1998     IEEE Std \$02.3m-1998     IEEE Std \$02.3m-1998     Clauses 34-39, 41-42), Type 100BASE-T2     IEEE Std \$02.3m-1998     Clauses 34-39, 41-42), Type 100BASE-T3     IEEE Std \$02.3m-1998     Clause 34	(Clause 5), 10 Mb/s Layer	17 June 1993)	Joseph S. Skorupa, Task Force Chair
informative annex to 10BASE-T IEEE Std 802.3u-1995 (Clauses 21-30), Type 100BASE-T MAC parameters, Physical Layer, Repeater, and Management Parameters for 100 Mb's Operation  IEEE Std 802.3m-1995, Maintenance 2  IEEE Std 802.3m-1995, Maintenance 3  IEEE Std 802.3n-1995, Maintenance 4  IEEE Std 802.3n-1995, Maintenance 5  IEEE Std 802.3n-1996, Maintenance 7  IEEE Std 802.3n-1996, Maintenance 8  IEEE Std 802.3n-1996, Maintenance 7  IEEE Std 802.3n-1996, Maintenance 8  IEEE Std 802.3n-1996, Maintenance 8  IEEE Std 802.3n-1996, Maintenance 9  IEEE Std 802.3n-1996  IEEE Std 802.3n-1996  IEEE Std 802.3n-1997 (Revisions to IEEE Std 802.3n)  IEEE Std 802.3n-1998  IEEE Std 802.3n-1998  Maintenance 9  IEEE Std 802.3n-1998  Maintenance 7  IEEE Std 802.3n-1998  Maintenance 7  IEEE Std 802.3n-1998  Maintenance 8  IEEE Std 802.3n-1998  Maintenance 9  IEEE Std 802.3n-1998  Maintenance 9  IEEE Std 802.3n-1998  Maintenance 7  IEEE Std 802.3n-1998  Maintenance Chair  IEEE Std 802.3n-1998  Maintenance Chair  IEEE Std 802.3n-1998  Maintenance Chair  IEEE Std 802.3n-1998  Maintenance 7  IEEE Std 802.3n-1998  Maintenance Chair  IEEE Std 802.3n-1999  Maintenance	(Clauses 15–18), 10 Mb/s Fiber MAUs 10BASE-FP, 10BASE-FB,	15 September 1993	Keith Amundsen, Task Force Chair (initial) Frederick Scholl, Task Force Chair (final)
Clauses 21-30, Type   100BASE-T MAC parameters, Physical Layer, MAUs, and Repeater for 100 Mb/s Operation   100BASE-T   120	informative annex to	14 June 1995	
Maintenance 2   Gary Robinson, Maintenance Chair	(Clauses 21–30), Type 100BASE-T MAC parame- ters, Physical Layer, MAUs, and Repeater for 100 Mb/s	14 June 1995	Peter Tarrant, Task Force Chair (Phase 1) Howard Frazier, Task Force Chair (Phase 2) Paul Sherer, Task Force Editor-in-Chief (Phase 1)
Gary Robinson, Maintenance Chair		21 September 1995	
Maintenance 4   Gary Robinson, Maintenance Chair		21 September 1995	
informative annex to 10BASE-T IEEE Std 802.3r-1996 (8.8), Type 10BASE5 Medium Attachment Unit PICS proforma  IEEE Std 802.3x-1997 and IEEE Std 802.3y-1997 (Revisions to IEEE Std 802.3, Full-Duplex Operation and Type 100BASE-T2  IEEE Std 802.3z-1998 (Clauses 34-39, 41-42), Type 1000BASE-X MAC Parameters, Physical Layer, Repeater, and Management Parameters for 1000 Mb/s Operation  IEEE Std 802.3a-1998, Frame Extensions for Virtual Bridged Local Area Network (VLAN) Tagging on IEEE Std 802.3a-1999 (Clause 40), Physical Layer Parameters and Specifications  IEEE Std 802.3a-1999 (Clause 40), Physical Layer Parameters and Specifications  IEEE Std 802.3a-1998 (Clauses 40), Physical Layer Parameters and Specifications  IEEE Std 802.3a-1998, (Clause 40), Physical Layer Parameters and Specifications  IEEE Std 802.3a-1998 (Clause 40), Physical Layer Parameters and Specifications		21 September 1995	
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IEEE Std 802.3y-1997 (Revisions to IEEE Std 802.3, Sundards/150/573062 lb-17 Rich Seifert, Task Force Chair and Editor (802.3x) cc-8802-3- J. Scott Carter, Task Force Chair and Editor (802.3x) cc-8802-3- J. Scott Carter, Task Force Chair (802.3y) Colin Mick, Task Force Editor (802.3y)  IEEE Std 802.3z-1998 (Clauses 34-39, 41-42), Type 1000BASE-X MAC Parameters, Physical Layer, Repeater, and Management Parameters for 1000 Mb/s Operation  IEEE Std 802.3aa-1998, 25 June 1998 Geoffrey O. Thompson, Working Group Vice Chair Howard W. Johnson, Task Force Editor  Geoffrey O. Thompson, Working Group Chair Colin Mick, Task Force Editor  Geoffrey O. Thompson, Working Group Chair Colin Mick, Task Force Editor  Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Vice Chair Andy J. Luque, Working Group Secretary Inn Crayford, Task Force Editor  Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Vice Chair Rich Seifert, Task Force Editor  Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Vice Chair Rich Seifert, Task Force Editor  Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Vice Chair Rich Seifert, Task Force Editor  Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Vice Chair Rich Seifert, Task Force Editor  Geoffrey O. Thompson, Working Group Vice Chair Rich Seifert, Task Force Editor  Geoffrey O. Thompson, Working Group Vice Chair Rich Seifert, Task Force Editor  Geoffrey O. Thompson, Working Group Secretary  Law, Working Group Vice Chair Rich Seifert, Task Force Editor	Type 10BASE5 Medium Attachment Unit PICS	29 July 1996	Imre Juhász, Task Force Chair
(Clauses 34–39, 41–42), Type 1000BASE-X MAC Parameters, Physical Layer, Repeater, and Management Parameters for 1000 Mb/s Operation  IEEE Std 802.3aa-1998, Maintenance 5  IEEE Std 802.3ac-1998, Frame Extensions for Virtual Bridged Local Area Network (VLAN) Tagging on IEEE 802.3 Networks  IEEE Std 802.3ab-1999 (Clause 40), Physical Layer Parameters and Specifications  David J. Law, Working Group Vice Chair Howard W. Johnson, Task Force Editor  Geoffrey O. Thompson, Working Group Chair Colin Mick, Task Force Editor  Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Vice Chair Rich Seifert, Task Force Editor  Geoffrey O. Thompson, Working Group Chair Parameters and Specifications  Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Chair Parameters and Specifications	IEEE Std 802.3y-1997 (Revisions to IEEE Std 802.3, Clauses 31 and 32), Full-Duplex Operation and Type		David J. Law, Working Group Vice Chair Rich Seifert, Task Force Chair and Editor (802.3x) Scott Carter, Task Force Chair (802.3y)
Maintenance 5  Colin Mick, Task Force Editor  Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Vice Chair David J. Law, Working Group Secretary  IEEE Std 802.3a Networks  IEEE Std 802.3ab-1999 (Clause 40), Physical Layer Parameters and Specifications  Colin Mick, Task Force Editor  Geoffrey O. Thompson, Working Group Secretary Ian Crayford, Task Force Chair Rich Seifert, Task Force Editor  Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Vice Chair Robert M. Grow, Working Group Secretary	(Clauses 34–39, 41–42), Type 1000BASE-X MAC Parame- ters, Physical Layer, Repeater, and Management Parameters	25 June 1998	David J. Law, Working Group Vice Chair Howard M. Frazier, Jr., Task Force Chair
Frame Extensions for Virtual Bridged Local Area Network (VLAN) Tagging on IEEE 802.3 Networks  IEEE Std 802.3ab-1999 (Clause 40), Physical Layer Parameters and Specifications  David J. Law, Working Group Vice Chair Andy J. Luque, Working Group Secretary Ian Crayford, Task Force Chair Rich Seifert, Task Force Editor  Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Vice Chair Robert M. Grow, Working Group Secretary		25 June 1998	
(Clause 40), Physical Layer Parameters and Specifications  David J. Law, Working Group Vice Chair Robert M. Grow, Working Group Secretary	Frame Extensions for Virtual Bridged Local Area Network (VLAN) Tagging on IEEE	16 September 1998	David J. Law, Working Group Vice Chair Andy J. Luque, Working Group Secretary Ian Crayford, Task Force Chair
4 Pair of Category 5 Balanced Copper Cabling, Type 1000BASE-T  Colin Mick, Task Force Editor	(Clause 40), Physical Layer Parameters and Specifications for 1000 Mb/s Operation Over 4 Pair of Category 5 Balanced Copper Cabling, Type	26 June 1999	David J. Law, Working Group Vice Chair Robert M. Grow, Working Group Secretary George Eisler, Task Force Chair

HEEE C(1.002.2.1	Date approved	Working Group officers, Task Force Chair, and
IEEE Std 802.3 document	by IEEE	Task Force Editors as listed in the document
IEEE Std 802.3ad-2000 (Clause 43), Aggregation of Multiple Link Segments	30 March 2000	Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Vice Chair Robert M. Grow, Working Group Secretary Steven Haddock, Task Force Chair Tony Jeffree, Task Force Co-Editor Rich Seifert, Task Force Co-Editor
IEEE Std 802.3-2002 (IEEE 802.3ag, Maintenance 6, Revision of the base), Car- rier Sense Multiple Access with Collision Detection (CSMA/CD) access method and Physical Layer specifications	14 January 2002	Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Vice Chair Robert M. Grow, Working Group Secretary
IEEE Std 802.3ae-2002, (Clauses 44–53) Media Access Control (MAC) Parameters, Physical Layers, and Management Parameters for 10 Gb/s Operation	13 June 2002	Geoffrey O. Thompson, Working Group Chair David J. Law, Working Group Vice Chair Robert M. Grow, Working Group Secretary R. Jonathan Thatcher, Task Force Chair Stephen Haddock, Task Force Vice Chair Bradley J. Booth, Task Force Editor
IEEE Std 802.3af-2003, (Clause 33) Data Terminal Equipment (DTE) Power via Media Dependent Interface (MDI)	12 June 2003	Geoffrey O. Thompson, Working Group Chair (Phase 1) Robert M. Grow, Working Group Chair (Phase 2) David J. Law, Working Group Vice Chair Robert M. Grow, Working Group Secretary (Phase 1) Steven B. Carlson, Working Group Secretary (Phase 2) Steven B. Carlson, Task Force Chair Michael S. McCormack, Task Force Editor (Phase 1) John J. Jetzt, Task Force Editor (Phase 2)
IEEE Std 802.3aj-2003, Maintenance 7	11 September 2003  Standa	Robert M. Grow, Working Group Chair David J. Law, Working Group Vice Chair, Task Force Chair Steven B. Carlson, Working Group Secretary Catherine K. N. Berger, Task Force Editor
IEEE Std 802.3ak-2004, Physical Layer and Management Parameters for 10Gb/s Operation, Type 10GBASE-CX4	9 February 2004	Robert M. Grow, Working Group Chair David J. Law, Working Group Vice Chair Steven B. Carlson, Working Group Secretary Daniel J. Dove, Task Force Chair Howard A. Baumer, Task Force Editor
IEEE Std 802.3ah-2004, Media Access Control Param- eters, Physical Layers, and Management Parameters for Subscriber Access Networks	6 April 2005	Robert M. Grow, Working Group Chair David J. Law, Working Group Vice Chair Steven B. Carlson, Working Group Secretary Howard Frazier, Task Force Chair Wael W. Diab, Task Force Editor-in-Chief Hugh Barrass, Task Force Vice-Chair
IEEE Std 802.3-2005 (IEEE 802.3REVam, Revision of the base), Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and Physical Layer specifications	9 June 2005	Robert M. Grow, Working Group Chair David J. Law, Working Group Vice Chair, Task Force Chair, Task Force Chief Editor Wael W. Diab, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary
IEEE Std 802.3an-2006, Physical Layer and Management Parameter for 10 Gb/s Operation, Type 10GBASE-T	8 June 2006	Robert M. Grow, Working Group Chair David J. Law, Working Group Vice Chair Wael William Diab, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Bradley Booth, Task Force Chair Sanjay Kasturia, Task Force Editor-in-Chief
IEEE Std 802.3-2005/Cor 1- 2006 (IEEE 802.3au), DTE Power via MDI Isolation corrigendum	8 June 2006	Robert M. Grow, Working Group Chair David J. Law, Working Group Vice Chair, Task Force Chair, and Task Force Editor Wael W. Diab, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary

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Physic Manag 10 Gb	Std 802.3aq-2006, cal Layer and gement Parameters for /s Operation, Type ASE-LRM	15 September 2006	Robert M. Grow, Working Group Chair David J. Law, Working Group Vice Chair Wael William Diab, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary David G. Cunningham, Task Force Chair Nick Weiner, Task Force Editor
	Std 802.3as-2006, format extensions	15 September 2006	Robert M. Grow, Working Group Chair David J. Law, Working Group Vice Chair Wael William Diab, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Kevin Q Daines, Task Force Chair Glenn W. Parsons, Task Force Editor
Etherr	Std 802.3ap-2007, net Operation over ical Backplanes	22 March 2007	Robert M. Grow, Working Group Chair David J. Law, Working Group Vice-Chair Wael W. Diab, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Bradley Booth, Working Group Treasurer Adam Healey, Task Force Chair Schelto vanDoorn, Task Force Editor-in-Chief (Phase 1) Ilango S. Ganga, Task Force Editor-in-Chief (Phase 2)
2007 (	Std 802.3-2005/Cor 2- IEEE 802.3aw), ASE-T corrigendum	7 June 2007	Robert M. Grow, Working Group Chair David J. Law, Working Group Vice Chair, Task Force Chair, and Task Force Editor Wael W. Diab, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Bradley Booth, Working Group Treasurer
(IEEE #9 (Re Carrie with C (CSM and Pl	Std 802.3-2008 802.3ay), Maintenance evision of the base), r Sense Multiple Access Collision Detection A/CD) access method hysical Layer fications	26 September 2008	Robert M. Grow, Working Group Chair David J. Law, Working Group Vice Chair, Task Force Chair, and Task Force Editor Wael William Diab, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Bradley Booth, Working Group Treasurer
Termi Power	Std 802.3at-2009 Data nal Equipment (DTE) via the Media Depen- nterface (MDI)	11 September 2009 <u>ISO/IEC/IEEE 88</u> rds/iso/5730621b-178	David J. Law, Working Group Chair Wael William Diab, Working Group Vice Chair Adam Healey, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Bradley Booth, Working Group Treasurer Mike McCormack, Task Force Chair D. Matthew Landry, Task Force Chief Editor
Physic and M	Std 802.3av-2009 cal Layer Specifications lanagement Parameters Gb/s Passive Optical orks	11 September 2009	David J. Law, Working Group Chair Wael William Diab, Working Group Vice Chair Adam Healey, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Bradley Booth, Working Group Treasurer Glen Kramer, Task Force Chair Duane Remein, Task Force Chief Editor
net Or	Std 802.3bc-2009 Ether- ganizationally Specific Length, Value (TLVs)	11 September 2009	David J. Law, Working Group Chair and Task Force Editor Wael W. Diab, Working Group Vice Chair and Task Force Chair Steven B. Carlson, Working Group Executive Secretary Adam Healey, Working Group Secretary Bradley Booth, Working Group Treasurer
2009 (	Std 802.3-2008/Cor 1- (IEEE 802.3bb) Pause ion Delay Corrigendum.	9 December 2009	David J. Law, Working Group Chair Wael William Diab, Working Group Vice-Chair Steven B. Carlson, Working Group Executive Secretary Adam Healey, Working Group Secretary Bradley Booth, Working Group Treasurer

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IEEE Std 802.3ba Media Access Control Parameters, Physical Layers, and Management Parameters for 40 Gb/s and 100 Gb/s Operation	17 June 2010	David J. Law, Working Group Chair Wael William Diab, Working Group Vice-Chair Steven B. Carlson, Working Group Executive Secretary Adam Healey, Working Group Secretary Bradley Booth, Working Group Treasurer John D'Ambrosia, Task Force Chair Ilango S. Ganga, Task Force Editor-in-Chief
IEEE Std 802.3az-2010 Media Access Control Parameters, Physical Layers, and Management Parameters for Energy-Efficient Ethernet	30 September 2010	David J. Law, Working Group Chair Wael William Diab, Working Group Vice Chair Steven B. Carlson, Working Group Executive Secretary Adam Healey, Working Group Secretary Bradley Booth, Working Group Treasurer Michael Bennett, Task Force Chair Sanjay Kasturia, Task Force Editor-in-Chief
IEEE Std 802.3bg-2011 Physical Layer and Management Parameters for Serial 40 Gb/s Ethernet Operation Over Single-Mode Fiber	31 March 2011	David J. Law, Working Group Chair Wael William Diab, Working Group Vice-Chair Adam Healey, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Valerie Maguire, Working Group Treasurer Mark Nowell, Task Force Chair Pete Anslow, Task Force Editor-in-Chief
IEEE Std 802.3bf-2011 Media Access Control (MAC) Service Interface and Management Parameters to Support Time Synchronization Protocols	16 May 2011	David J. Law, Working Group Chair Wael William Diab, Working Group Vice-Chair Adam Healey, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Valerie Maguire, Working Group Treasurer Steven B. Carlson, Task Force Chair Marek Hajduczenia, Task Force Editor-in-Chief
IEEE Std 802.3bd-2011 MAC Control Frame for Priority- based Flow Control	16 June 2011	Tony Jeffree, IEEE 802.1 Working Group Chair Paul Congdon, IEEE 802.1 Working Group Vice Chair David J. Law, IEEE 802.3 Working Group Chair Wael W. Diab, IEEE 802.3 Working Group Vice Chair Pat Thaler, Data Center Bridging Task Group Chair
IEEE Std 802.3-2012 (IEEE 802.3ah), Maintenance #10 (Revision of the base), Standard for Ethernet	28 December 2012  ISO/IEC/IEEE 88	David J. Law, Working Group Chair Wael William Diab, Working Group Vice-Chair, Task Force Chair, and Task Force Editor-in-Chief Adam Healey, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Valerie Maguire, Working Group Treasurer
IEEE Std 802.3bk-2013 Physical Layer Specifications and Management Parameters for Extended Ethernet Passive Optical Networks	23 August 2013	David J. Law, Working Group Chair Wael William Diab, Working Group Vice-Chair Adam Healey, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Valerie Maguire, Working Group Treasurer Marek Hajduczenia, Task Force Chair Susumu Nishihara, Task Force Editor-in-Chief
IEEE Std 802.3bj-2014 Physical Layer Specifications and Management Parameters for 100 Gb/s Operation Over Backplanes and Copper Cables	12 June 2014	David J. Law, Working Group Chair Wael William Diab, Working Group Vice-Chair (initial) Adam Healey, Working Group Secretary, (initial), Task Force Editor-in-Chief (initial), Working Group Vice-Chair (final), and Task Force Chair (final) Peter Anslow, Working Group Secretary (final) Steven B. Carlson, Working Group Executive Secretary Valerie Maguire, Working Group Treasurer John D'Ambrosia, Task Force Chair (initial) Matthew Brown, Task Force Editor-in-Chief (final)
IEEE Std 802.3bm-2015 Physical Layer Specifications and Management Parameters for 40 Gb/s and 100 Gb/s Operation Over Fiber Optic Cables	16 February 2015	David J. Law, Working Group Chair Adam Healey, Working Group Vice-Chair Pete Anslow, Working Group Secretary and Task Force Editor-in-Chief Steven B. Carlson, Working Group Executive Secretary Valerie Maguire, Working Group Treasurer Dan Dove, Task Force Chair Kapil Shrikhande, Task Force Vice-Chair

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IEEE Std 802.3-2015 (IEEE 802.3bx), Maintenance #11 (Revision of the base), Standard for Ethernet	3 September 2015	David J. Law, Working Group Chair  Adam Healey, Working Group Vice-Chair, Task Force Chair, and Task Force Editor-in-Chief  Pete Anslow, Working Group Secretary  Steven B. Carlson, Working Group Executive Secretary  Valerie Maguire, Working Group Treasurer
IEEE Std 802.3bw-2015 Physical Layer Specifications and Management Parameters for 100 Mb/s Operation over a Single Balanced Twisted Pair Cable (100BASE-T1)	26 October 2015	David J. Law, Working Group Chair Adam Healey, Working Group Vice-Chair Pete Anslow, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary and Task Force Chair, Phase 2 Valerie Maguire, Working Group Treasurer Thomas Hogenmüller, Task Force Chair, Phase 1 Mehmet Tazebay, Task Force Vice-Chair Curtis Donahue, Task Force Editor-in-Chief
IEEE Std 802.3by-2016 Media Access Control Parameters, Physical Layers, and Management Parameters for 25 Gb/s Operation	30 June 2016	David J. Law, Working Group Chair Adam Healey, Working Group Vice-Chair Pete Anslow, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Valerie Maguire, Working Group Treasurer Mark Nowell, Task Force Chair Matthew Brown, Task Force Editor-in-Chief
IEEE Std 802.3bq-2016 Physical Layers and Management Parameters for 25 Gb/s and 40 Gb/s Operation, Types 25GBASE-T and 40GBASE-T	30 June 2016  iTeh Stan	David J. Law, Working Group Chair Adam Healey, Working Group Vice-Chair Pete Anslow, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Valerie Maguire, Working Group Treasurer David Chalupsky, Task Force Chair George Zimmerman, Task Force Editor-in-Chief
IEEE Std 802.3bp-2016 Physical Layer Specifications and Management Parameters for 1 Gb/s Operation over a Single Twisted-Pair Copper Cable	30 June 2016  Document	David J. Law, Working Group Chair Adam Healey, Working Group Vice-Chair Pete Anslow, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary and Task Force Chair Valerie Maguire, Working Group Treasurer Marek Hajduczenia, Task Force Editor-in-Chief
IEEE Std 802.3br-2016 Specification and Management Parameters for Interspersing Express Traffic	130 June 2016 EEE 88 dards/iso/5730621b-17b	David J. Law, Working Group Chair Adam Healey, Working Group Vice-Chair Pete Anslow, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Valerie Maguire, Working Group Treasurer Ludwig Winkel, Task Force Chair Patricia Thaler, Task Force Editor-in-Chief
IEEE Std 802.3bn-2016 Physical Layer Specifications and Management Parameters for Ethernet Passive Optical Networks Protocol over Coax	22 September 2016	David J. Law, Working Group Chair Adam Healey, Working Group Vice-Chair Pete Anslow, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Valerie Maguire, Working Group Treasurer Mark Laubach, Task Force Chair Duane Remein, Task Force Editor-in-Chief
IEEE Std 802.3bz-2016 Media Access Control Parameters, Physical Layers, and Management Parameters for 2.5 Gb/s and 5 Gb/s Operation, Types 2.5GBASE-T and 5GBASE-T	22 September 2016	David J. Law, Working Group Chair Adam Healey, Working Group Vice-Chair Pete Anslow, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Valerie Maguire, Working Group Treasurer David Chalupsky, Task Force Chair George Zimmerman, Task Force Editor-in-Chief
IEEE Std 802.3bu-2016 Physical Layer and Management Parameters for Power over Data Lines (PoDL) of Single Balanced Twisted-Pair Ethernet	7 December 2016	David J. Law, Working Group Chair Adam Healey, Working Group Vice-Chair Pete Anslow, Working Group Secretary Steven B. Carlson, Working Group Executive Secretary Valerie Maguire, Working Group Treasurer Dave Dwelley, Task Force Chair, Phase 1 Dan Dove, Task Force Chair, Phase 2 Andy Gardner, Task Force Editor-in-Chief