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STANDARD

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8802-1X

Second edition
2021-12

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

Part 1X:

Port-based network access control

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

Partie 1X: Contrôle d'accès au réseau basé sur le port

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This second edition cancels and replaces the first edition (ISO/IEC/IEEE 8802-1X:2013), which has been technically revised. It also incorporates the Amendments ISO/IEC/IEEE 8802-1X:2013/Amd 1:2016 and ISO/IEC/IEEE 8802-1X:2013/Amd 2:2020.

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Incorporating IEEE Std 802.1Xbx™-2014
and IEEE Std 802.1Xck™-2018)

IEEE Standard for Local and Metropolitan Area Networks— Port-Based Network Access Control

Developed by the
**LAN/MAN Standards Committee
of the
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Abstract: Port-based network access control allows a network administrator to restrict the use of IEEE 802[®] LAN service access points (ports) to secure communication between authenticated and authorized devices. This standard specifies a common architecture, functional elements, and protocols that support mutual authentication between the clients of ports attached to the same LAN and that secure communication between the ports, including the media access method independent protocols that are used to discover and establish the security associations used by IEEE 802.1AE™ MAC Security.

Keywords: access control, authentication, authorization, controlled port, EAP, EAPOL, IEEE 802.1X, key agreement, LANs, local area networks, MACsec, MACsec Key Agreement, MAC security, MAC Service, MANs, metropolitan area networks, MKA, port-based network access control, secure association, security, service access point, uncontrolled port

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