

ISO/IEC JTC 1/SC 6

Secretariat: KATS

Voting begins on:  
2021-03-11

Voting terminates on:  
2021-07-29

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

Part 1Q:

**Bridges and bridged networks**

**AMENDMENT 3: Virtual station interface  
(VSI) discovery and configuration  
protocol (VDP) extension to support  
network virtualization overlays over  
layer 3 (NV03)**

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

*Partie 1Q: Ponts et réseaux pontés*

*AMENDEMENT 3*

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**IEEE Std 802.1Qcy™-2019**  
(Amendment to IEEE Std 802.1Q™-2018  
as amended by IEEE Std 802.1Qcp™-2018  
and IEEE Std 802.1Qcc™-2018)

**IEEE Standard for  
Local and Metropolitan Area Networks—**

**Bridges and Bridged Networks**

**Amendment 32:  
Virtual Station Interface (VSI) Discovery and  
Configuration Protocol (VDP) Extension to  
Support Network Virtualization Overlays  
Over Layer 3 (NVO3)**

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**LAN/MAN Standards Committee  
of the  
IEEE Computer Society**

Approved 21 March 2019

**IEEE-SA Standards Board**

**Abstract:** Extensions to the Virtual Station Interface (VSI) Discovery and Configuration Protocol (VDP) to support using the protocol between an end station and a device doing encapsulation/decapsulation for Network Virtualization Overlays Over Layer 3 (NVO3) are specified in this amendment to IEEE Std 802.1Q-2018. The extensions include adding format types [e.g., Internet Protocol (IP) addresses] and enhancing indication of migration events.

**Keywords:** amendment, IEEE 802.1Q™, IEEE 802.1Qcy™, NVO3, VDP extension, VDP IP address extension

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PDF: ISBN 978-1-5044-5669-2      STD23619  
Print: ISBN 978-1-5044-5670-8      STDPD23619

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## Introduction

This introduction is not part of IEEE Std 802.1Qcy-2019, IEEE Standard for Local and Metropolitan Area Networks—Bridges and Bridged Networks—Amendment 32: Virtual Station Interface (VSI) Discovery and Configuration Protocol (VDP) Extension to Support Network Virtualization Overlays over Layer 3 (NVO3).

This amendment to IEEE Std 802.1Q-2018 provides extensions to the Virtual Station Interface (VSI) Discovery and Configuration Protocol (VDP) to support using the protocol between an end station and a device doing encapsulation/decapsulation for Network Virtualization Overlays Over Layer 3 (NVO3). The extensions include adding format types [e.g., Internet Protocol (IP) addresses] and enhancing indication of migration events.

This standard contains state-of-the-art material. The area covered by this standard is undergoing evolution. Revisions are anticipated within the next few years to clarify existing material, to correct possible errors, and to incorporate new related material. Information on the current revision state of this and other IEEE 802 standards may be obtained from

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