

**IEEE Standard for  
Local and metropolitan area networks—**

**Time-Sensitive Networking for Fronthaul**

**Amendment 1: Enhancements to Fronthaul  
Profiles to Support New Fronthaul Interface,  
Synchronization, and Syntonization Standards**

IEEE Computer Society

Developed by the  
LAN/MAN Standards Committee

**IEEE Std 802.1CMde™-2020**  
(Amendment to IEEE Std 802.1CM™-2018)

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

Approved 4 June 2020

**IEEE SA Standards Board**

**Abstract:** Enhancements to fronthaul profiles are defined in this amendment to IEEE Std 802.1CM™-2018 in order to address new developments in fronthaul interface standards and in related synchronization and syntonization standards.

**Keywords:** amendment, bridged network, CPRI, eCPRI, F1, fronthaul, IEEE 802®, IEEE 802.1™, IEEE 802.1CM™, IEEE 802.1CMde™, synchronization, time-sensitive networking, TSN, Virtual Local Area Network, VLAN, VLAN Bridge

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## Introduction

This introduction is not part of IEEE Std 802.1CMde-2020, IEEE Standard for local and metropolitan area networks—Time-Sensitive Networking for Fronthaul—Amendment 1: Enhancements to Fronthaul Profiles to Support New Fronthaul Interface, Synchronization, and Syntonization Standards.

This amendment to IEEE Std 802.1CM-2018 defines enhancements to fronthaul profiles in order to address new developments in fronthaul interface standards and in related synchronization and syntonization standards.

The 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<sup>®</sup> standards may be obtained from

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# IEEE Standard for Local and metropolitan area networks— Time-Sensitive Networking for Fronthaul

## Amendment 1: Enhancements to Fronthaul Profiles to Support New Fronthaul Interface, Synchronization, and Syntonization Standards

The amendment is based on IEEE Std 802.1CM-2018.

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### 1. Overview

#### 1.3 Introduction

***Change the dashed list of the second paragraph in 1.3 as shown (text of footnote 3 remains unchanged):***

- Virtual Local Area Network (VLAN) Bridge specification in IEEE Std 802.1Q<sup>TM,3</sup>
- MAC service specifications in IEEE Std 802.1AC<sup>TM</sup>.
- MAC/PHY technology specifications in IEEE Std 802.3<sup>TM</sup>.
- Interspersing express traffic specification in IEEE Std 802.3~~br~~<sup>TM</sup>.
- Frame preemption specification in IEEE Std 802.1Q.
- Time synchronization and Precision Time Protocol (PTP) specifications in IEEE Std 1588<sup>TM</sup>.
- Telecom profile specification in ITU-T G.8275.1, which is based on IEEE Std 1588.
- Synchronous Ethernet specification in ITU-T G.8261, G.8262, [G.8262.1](#), and G.8264.

<sup>1</sup> Notes in text, tables, and figures of a standard are given for information only and do not contain requirements needed to implement this standard.