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Part 1AS: Timing and synchronization for time-sensitive applications in bridged local area networks

AMENDMENT 2: YANG data model

Technologies de l'information — Télécommunications et échange d'information entre systèmes — Réseaux locaux et métropolitains —

Partie 1AS: Temporisation et synchronisation pour les applications sensibles au temps des réseaux locaux pontés

AMENDEMENT 2: Modèle de données YANG

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(Amendment to IEEE Std 802.1AS™-2020
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and IEEE Std 802.1ASdr™-2024)

IEEE Standard for
Local and Metropolitan Area Networks—

Timing and Synchronization for Time-Sensitive Applications

Amendment 2: YANG Data Model

Developed by the

LAN/MAN Standards Committee
of the
IEEE Computer Society

Approved 26 September 2024

IEEE SA Standards Board

Abstract: A YANG data model that allows configuration and state reporting for all managed objects of the base standard is specified in this amendment.

Keywords: amendment, data model, IEEE 802.1AS™, IEEE 802.1ASdn™, managed objects, network management, synchronization, syntonization, time-aware system, YANG

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Introduction

This introduction is not part of IEEE Std 802.1ASdn-2024, IEEE Standard for Local and Metropolitan Area Networks—Timing and Synchronization for Time-Sensitive Applications—Amendment 2: YANG Data Model.

The first edition of IEEE Std 802.1AS was published in 2011. A first corrigendum, IEEE Std 802.1AS™-2011/Cor 1-2013, provided technical and editorial corrections. A second corrigendum, IEEE Std 802.1AS™-2011/Cor 2-2015 provided additional technical and editorial corrections.

The second edition, IEEE Std 802.1AS-2020, added support for multiple gPTP domains, Common Mean Link Delay Service, external port configuration, and Fine Timing Measurement for IEEE 802.11 transport. Backward compatibility with IEEE Std 802.1AS-2011 was maintained. The corrigendum, IEEE 802.1AS-2020/Cor 1-2021, provides technical and editorial corrections. The amendment, IEEE Std 802.1ASdr-2024, changed non-inclusive terms, replacing them with suitable and inclusive terminology wherever possible.

This amendment to IEEE Std 802.1AS-2020 specifies a YANG data model that allows configuration and state reporting for all managed objects of the base standard.

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Contents

2. Normative references 14

4. Acronyms and abbreviations 15

5. Conformance 16

5.4 PTP Instance requirements and options 16

15. ~~Managed object definitions~~Management Information Base (MIB) 17

17. YANG data model 18

17.1 YANG framework 18
17.2 IEEE 802.1AS YANG data model 19
17.3 Structure of the YANG data model 23
17.4 Security considerations 24
17.5 YANG schema tree definitions 24
17.6 YANG module, ... 29

Annex A (normative) Protocol Implementation Conformance Statement (PICS) proforma 76

A.19 Remote management 76

Annex F (informative) PTP profile included in this standard 77

F.4 PTP options 77

Annex H (informative) Bibliography 78

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List of Figures

Figure 17-1—Overview of YANG tree 20
Figure 17-2—PTP Instance detail 21
Figure 17-3—PTP Port detail 22
Figure 17-4—Common services detail 23

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List of Tables

Table 17-1 Summary of the YANG modules..... 24

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IEEE Standard for
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Timing and Synchronization for Time-Sensitive Applications

Amendment 2: YANG Data Model

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