

ISO/IEC/IEEE 8802-1BA:2016-10 (E)

Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 1BA: Audio video bridging (AVB) systems

Contents	Page
1. Overview.....	1
1.1 Scope.....	1
1.2 Purpose.....	1
1.3 Introduction.....	1
1.4 Objectives	2
2. Normative references.....	3
3. Definitions	5
4. Acronyms and abbreviations	6
5. Architecture of AVB networks.....	7
6. AVB functions.....	11
6.1 Energy Efficient Ethernet	11
6.2 Flow control.....	11
6.3 Frame sizes	12
6.4 Detection of AVB domains.....	12
6.5 Meeting latency targets for SR classes A and B.....	13
6.6 Variable data rate LANs	16
6.7 Basic support for streams.....	17
6.8 Minimum Bridge requirements.....	18
6.9 IEEE 802.1AS time-synchronization event message transmission interval	19
6.10 Effect of hop count on IEEE 802.1AS accuracy	19
7. AVB profiles.....	20
7.1 Introduction to PCS proformas	20
7.2 Abbreviations and special symbols.....	21
7.3 Instructions for completing the PCS proforma	21
7.4 Common requirements	23
Annex A (informative) Bibliography	31

List of figures

Figure 5-1	An AVB network.....	7
Figure 5-2	AVB domain boundaries created by non-AVB systems.....	8
Figure 5-3	AVB domain boundaries created by different SR class A priorities	9
Figure 5-4	AVB domain boundaries created by different SR class B priorities.....	10

List of tables

Table 6-1	AVB support in LAN technologies	13
Table 6-2	Latency targets for SR classes A and B.....	14