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**Part 1BA:
Audio video bridging (AVB) systems**

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Partie 1BA: Systèmes de pontage audio-vidéo (AVB)

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**IEEE Standard for
Local and metropolitan area networks—
Audio Video Bridging (AVB) Systems**

IEEE Computer Society

Sponsored by the
LAN/MAN Standards Committee

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**IEEE Standard for
Local and metropolitan area networks—
Audio Video Bridging (AVB) Systems**

Sponsor

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

Approved 10 September 2011

IEEE-SA Standards Board

Abstract: Profiles that select features, options, configurations, defaults, protocols and procedures of bridges, stations and LANs that are necessary to build networks that are capable of transporting time-sensitive audio and/or video data streams are defined in this standard.

Keywords: audio video bridging, AVB, Bridged Local Area Networks, IEEE 802.1BA, LANs, local area networks, MAC Bridges, MANs, metropolitan area networks, time sensitive data streams, Virtual Bridged Local Area Networks, virtual LANs

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1. Overview

1.1 Scope

This standard defines profiles that select features, options, configurations, defaults, protocols and procedures of bridges, stations and LANs that are necessary to build networks that are capable of transporting time sensitive audio and/or video data streams.

1.2 Purpose

The purpose of this standard is to specify defaults and profiles that manufacturers of LAN equipment can use to develop AVB-compatible LAN components, and to enable a person not skilled in networking to build a network, using those components, that does not require configuration to provide working audio and/or video services.

1.3 Introduction

The successful support of time sensitive audio and/or video data streams in a Bridged LAN requires the selection of specific features and options that are specified in a number of different standards, some of which are standards developed in IEEE 802, and others (in particular, those that relate to functionality in OSI layer 3 and above ISO/IEC 7498-1:1994 [B3]) that are developed by other bodies. In this standard, it is the selection of features and options that support OSI layer 1 and 2 LAN functionality that is of interest, in order to specify the requirements for LAN support both in Bridges and the end stations that attach to them.

The standards from which features and options are selected by this standard are as follows:

- a) The VLAN Bridge specification in IEEE Std 802.1Q.