

AES standards project report - Use cases for networks in professional audio

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Abstract

Use cases for some advanced audio applications using the IEEE 1394 Higher Performance Serial Bus were explored by joint task groups set up by AES Standards Working Group SC-02-12 and the 1394TA Pro Audio Working Group. The work was subdivided into three application areas; Recording, Live Sound, and Installations. This report summarises the output of these three groups.

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Foreword

This foreword is not part of the AES-R10, *AES standards project report - Use cases for networks in professional audio*.

In middle of 2006, a joint task group was set up by AES Standards Working Group SC-02-12 and the 1394TA Pro Audio Working Group to explore the potential use cases for advanced audio application using the IEEE 1394 Higher Performance Serial Bus. The work was subdivided into three application areas; Recording, Live Sound, and Installations. Membership of these task groups was invited from the industry at large. In each application area, work was carried out using the Internet communications tools of both the 1394TA and AESSC.

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1 Introduction

A joint task group was set up by AES Standards Working Group SC-02-12 and the 1394TA Pro Audio Working Group to explore the potential use cases for advanced audio application using the IEEE 1394 Higher Performance Serial Bus. The work was subdivided into three application areas; Recording, Live Sound, and Installations, each within their own group for the initial writing work. Membership of these task groups was invited from the industry at large. In each application area, work was carried out using the Internet communications tools of both the 1394TA and AESSC.

This report summarises the output of these three groups.

2 Terms and abbreviations

Digital Signal Processing

DSP

Front of house

FOH

Relating to the audience within a theatre or entertainment venue. For example, the FOH mixer is controlling the sound that the audience hears and is usually situated close to that audience.

Input/Output

I/O

The audio inputs and outputs - typically analogue unless otherwise stated - available to a digital audio system.

Musical Instrument Digital Interface

MIDI

Plenum

a group comprising all delegates of a conference, for example.

Seat

A conference seat consists of a delegate position equipped with a microphone and a loudspeaker or headphone. It may also provide a touch display to perform a "local call" to any other seat. Additionally a seat might provide a computer network connector to connect a laptop computer to the Internet, and to an intra-net if available.