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AES standard for forensic purposes –
Criteria for the authentication of analog audio tape recordings

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Abstract
The purpose of this standard is to formulate a standard scientific procedure for the authentication of audio tape recordings intended to be offered as evidence or otherwise utilized in civil, criminal, or other fact finding proceedings.

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Foreword

[This foreword is not a part of this standard for forensic purposes — criteria for the authentication of analog audio tape recordings, AES43-2000.]

This document was developed by a writing group, headed by A. Pellicano, of the SC-03-12 Working Group on Forensic Audio of the SC-03 Subcommittee on the Preservation and Restoration of Audio Recordings. The writing group was formed to execute project AES-X48.

It results from an international consensus and is not intended to reflect the practice of any single nation. As an AES standard, it is an international professional society’s statement of technical good practice, but its use is entirely voluntary and it does not have the status of a governmental regulation. Nevertheless, any claim to voluntary compliance with the standard implies acceptance of its mandatory clauses.

In 1991, SC-03-12 was organized as AESSC WG-12 at the request of a community of engineers from the AES, the Acoustical Society of America, various law enforcement agencies, and groups concerned with testimony. The group concerns itself with the handling, authentication, and enhancement of audio recorded materials basing itself on methodologies such as developed from those described in Bolt, Cooper, Flanagan, McKnight, Stockham, and Weiss, Report on a Technical Investigation Conducted for the U.S. District Court for the District of Columbia by the Advisory Panel on the White House Tapes. May 31, 1974.

This document results from one of the projects set out at the early meetings of the working group.

Tom Owen, Chair of SC-03-12
Michael McDermott, Vice-Chair of SC-03-12

1999-09-03
AES standard for forensic purposes —
Criteria for the authentication of analog audio tape recordings

1 Scope
This standard specifies the minimum procedure for the authentication of analog audio tape recordings intended to be offered as evidence or otherwise utilized in civil, criminal, or other fact finding proceedings. It does not specify or restrict additional testing procedures that can be used.

These methodologies are suggested to any and all individuals and groups who hold themselves out to be or are recognized as forensic tape analysts or experts.

This standard is a set of procedures set forth to inform attorneys, courts, and other interested parties. It also serves to aid interested parties who are attempting to determine whether or not the procedures and methodologies of potential, chosen, or opposing experts are of a scientific nature and would withstand objective scrutiny.

2 Normative references
The following standard contains provisions that, through reference in this text, constitute provisions of this document. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this document are encouraged to investigate the possibility of applying the most recent editions of the indicated standards.


3 Definitions
3.1 authentication
authentic recording and authenticity analysis as defined in AES27

3.2 forensic tape analyst
FTA
entity performing authentication according to this standard

3.3 designated original recording
DOR
original recording as defined in AES27

3.4 designated originating recording device
DORD
original recorder as defined in AES27