## AES-R12-2014 STANDARDS AND s2018 INFORMATION DOCUMENTS



Standards project report -**AES67 Interoperability PlugFest -**Munich 2014

In cooperation with the European Broadcasting Union



OPERATING EUROVISION AND EURORADIO

Users of this standards document are encouraged to determine if they are using the latest printing incorporating all current amendments and editorial corrections. Information on the latest status, edition, and printing of a standards document can be found at: http://www.aes.org/standards

**AUDIO ENGINEERING SOCIETY, INC.** 60 East 42nd Street, New York, New York 10165, US.



The AES Standards Committee is the organization responsible for the standards program of the Audio Engineering Society. It publishes technical standards, information documents and technical reports. Working groups and task groups with a fully international membership are engaged in writing standards covering fields that include topics of specific relevance to professional audio. Membership of any AES standards working group is open to all individuals who are materially and directly affected by the documents that may be issued under the scope of that working group.

Complete information, including working group scopes and project status is available at http://www.aes.org/standards. Enquiries may be addressed to standards@aes.org

The AES Standards Committee is supported in part by those listed below who, as Standards Sustainers, make significant financial contribution to its operation.















































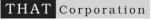










































This list is current as of 2018/4/18

## AES-R12 Standards project report AES67 Interoperability PlugFest Munich 2014

## **Abstract**

This report summarizes the AES67 interoperability test event ("plugfest") held at the Institut für Rundfunktechnik (IRT), Munich, Germany on 27 to 30 October 2014. Ten companies tested 16 products against each other to confirm interoperability. The results are presented, together with the results of a range of tests of optional operational modes described in the standard.

An AES standards project report implies a consensus of those directly and materially affected by its provisions who have approved it as representing the views of their AESSC subcommittee but not of the AES as a whole. It is intended as a guide to aid the manufacturer, the consumer, and the general public. The existence of an AES report does not in any respect preclude anyone, whether or not he or she has approved the document, from manufacturing, marketing, purchasing, or using products, processes, or procedures not in agreement with the report. Publication does not assume any liability to any patent owner, nor does it assume any obligation whatever to parties using the report. This document is subject to periodic review and users are cautioned to obtain the latest edition.

Audio Engineering Society Inc. 60 East 42<sup>nd</sup> Street, New York, NY., US. www.aes.org/standards standards@aes.org



2014-11-24 printing

## **Contents**

0 Introduction	4
0.1 Purpose	4
0.2 Approach	
0.3 Participation	4
1 References	4
2 Test environment	5
2.1 Equipment setup	
2.2 IP address assignment	6
3 Primary interoperability tests	6
3.1 General	
3.2 Synchronization to a common clock	
3.3 Multicast streaming: 1 transmitter, many receivers	
3.3.1 General	
3.3.2 Transmitters	
3.3.3 Receivers	
3.4 Multicast streaming: many transmitters, many receivers	
4 Interoperability options	a
4.1 General	
4.2 Stream format options	
4.3 Session Initiation Protocol (SIP) and unicast mode	
4.3.1 General	.11
4.3.2 Unicast only	
4.3.3 Unicast and SIP	. 11
5 Network setup	.12
5.1 General	.12
5.2 Switch PTP modes	
5.3 Disconnecting PTP	
5.4 Quality of Service (QoS)	. 12
6 Conclusions	.12
7 Recommendations and future work	. 13
Annex Δ· Photographs	14

