

**Committee T1 Performance
Standards Contribution**

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STANDARDS PROJECT: Analog Interface Performance Specifications for Digital Video
Teleconferencing/Video Telephony Service (T1Q1-12)
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SUBJECT: Proposed US contribution to ITU-T SG12
Performance assessment of audio, video, and multimedia quality.
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SOURCE: NTIA/ITS
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STUDY GROUP 12

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Title: PERFORMANCE ASSESSMENT OF AUDIO, VIDEO, AND MULTIMEDIA
QUALITY

Abstract

The United States is interested in furthering the timely development of useful and standard methods for performance assessment of audio, video, and audiovisual services and systems. Since both Study Groups 9 and 12 have expertise in these areas, it is hoped that the standardization of assessment methods might be accelerated with cooperation between Study Groups 9 and 12. This contribution proposes that Study Group 12 send a liaison to Study Group 9 outlining how cooperative work in these areas might be useful to the workplans of both Study Groups. It is proposed that Study Group 12 consider authorizing a joint Rapporteurs' Group with Study Group 9 and other relevant standards bodies.

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PERFORMANCE ASSESSMENT OF AUDIO, VIDEO, AND MULTIMEDIA QUALITY

Introduction

The United States is interested in furthering the timely development of useful and standard methods for performance assessment of audio, video, and audiovisual services and systems. While the development of subjective methods of quality assessment continues to evolve and improve, there has long been a clear need for objective methods to become available in the areas of multimedia performance assessment. This work is bearing fruit in the ITU-T Study Group 12.

The last study period saw the approval of several Recommendations from Study Group 12 in the area of performance assessment of audio, video, and audiovisual quality:

- P.910 - "Subjective video quality assessment methods for multimedia applications"
- P.920 - "Interactive test methods for audiovisual communications"
- P.930 - "Principles of a reference impairment system for video"
- P.800 - "Methods for subjective determination of transmission quality"
- P.830 - "Subjective performance assessment of telephone-band (300-3400 Hz) and wideband digital codecs"
- P.861 - "Objective quality measurement of telephone-band (300-3400 Hz) speech codecs"

The work of the next Study Period will extend this progress into the area of subjective assessment of overall audiovisual quality (P.AVQ - "Non-interactive one-way test methods for overall audiovisual quality evaluation in multimedia applications") as well as new draft Recommendations on objective methods for the assessment of video quality and audiovisual quality.

Study Group 9 is pursuing related studies including new draft Recommendations concerning the subjective and objective assessment of the picture quality of digital cable television systems. Since both Study Groups 9 and 12 have expertise in these and related areas, it is hoped that the standardization of assessment methods might be accelerated with cooperation between Study Groups 9 and 12.

Proposal

Considering the expertise of Study Group 12 in the field of performance assessment and considering the expertise of Study Group 9 in the areas of Television and Sound Transmission and given the mutual interest in the areas of quality assessment for these and related services, it is proposed that the standardization of assessment methods might be pursued with as much cooperation between Study Groups 9 and 12 as is feasible.

The U.S. proposes that Study Group 12 send a liaison statement to Study Group 9 outlining how such cooperative work in the areas of performance assessment of audio, video, and multimedia might be useful to the workplans of both Study Groups. It is proposed that Study Group 12 consider authorizing a joint Rapporteurs' Group with Study Group 9.