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American National Standard for Telecommunications

Network Performance Parameters for Dedicated Digital Services -- Definitions and Measurements

Secretariat

Alliance for Telecommunications Industry Solutions

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Abstract

This standard applies to Layer 1, dedicated digital services, which are characterized by established transmission paths (i.e., no access or disengagement functions). Therefore, this standard defines performance parameters relevant to the information transfer phase only. This standard provides a list of the performance parameters and measurement methods needed by users, vendors, and providers of dedicated digital communications services, to characterize the user-observable performance of these services (i.e., it does not address the causes of errors). It also provides a formula for arriving at the thresholds of performance that will indicate the transitions between the available and unavailable states. A given service will only reference those parameters or thresholds that are applicable to that service. The network-specific parameters are for performance allocation and network control. End users may use the concepts developed in this standard to measure end-user-to-end-user performance and availability.

Foreword

The information contained in this Foreword is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. As such, this Foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the standard.

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ANSI guidelines specify two categories of requirements: mandatory and recommendation. The mandatory requirements are designated by the word *shall* and recommendations by the word *should*. Where both a mandatory requirement and a recommendation are specified for the same criterion, the recommendation represents a goal currently identifiable as having distinct compatibility or performance advantages.

Suggestions for improvement of this standard are welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, T1 Secretariat, 1200 G Street NW, Suite 500, Washington, DC 20005.

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RealNetworks	Jeremy Worley

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SnowShore Networks, Inc.	Eric Burger Doug Corrigan (Alt.)
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Westell Technologies, Inc.	Guy Cerulli Tariq Amjed (Alt.)
Zarlink Semiconductor	Maamoun AbouSeido Gary Jin (Alt.)

At the time it approved this standard, Technical Subcommittee T1A1 on Performance and Signal Processing, which is responsible for the development of this standard, had the following members:

- N. Seitz, T1A1 Chair
- E. Hauch, T1A1 Vice-Chair

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Tektronix	David Fibush Bozidar Janko (Alt.)
Telcordia Technologies	Pete Shelus W. Garry Couch (Alt.)
US Telephone Association – USTA	Robert Creighton
Verizon Communications	Gerald L. Hopkins
Worldcom	Daryl Tannis J. Martin Carroll (Alt.)

Working Group T1A1.3 on Performance of Networks and Services, which was responsible for the development of this standard, had the following members:

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Garry Couch, Telcordia Technologies; T1A1.3 Chair

Henri Suyderhoud, OKI America, Incorporated; T1A1.3 Vice-Chair

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