ATIS-1000615.2014(R2019)

Digital Subscriber Signalling System No. 1 (DSS1) – Layer 3 Overview

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Is an American National Standard developed by the **Signaling, Architecture, and Control (SAC)** Subcommittee under the **ATIS Packet Technologies and Systems Committee (PTSC).**

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American National Standard for Telecommunications

Digital Subscriber Signalling System No. 1 (DSS1) – Layer 3 Overview

Alliance for Telecommunications Industry Solutions

Approved June 2014

American National Standards Institute, Inc.

Abstract

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The Digital Subscriber Signalling System No.1 (DSS1) is a suite of protocols that provides the means for users to invoke the full range of services and capabilities available from the Integrated Services Digital Network (ISDN). The structure of DSS1 is consistent with the seven-layer model described in ITU-T Recommendation I.320. The complete suite of Layer 3 DSS1 protocols encompasses a set of several standards, each one addressing its own aspect of the suite. This standard provides an overview of DSS1 Layer 3 functions and protocols. It also provides a list of the standards in which the individual aspects of the DSS1 Layer 3 suite are defined.

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.

The Digital Subscriber Signalling System No. 1 (DSS1) is a suite of protocols that provides the means for users to invoke the full range of services and capabilities available from the Integrated Services Digital Network (ISDN). The structure of DSS1 is consistent with the seven-layer model described in ITU-T Recommendation I.320. The complete suite of Layer 3 DSS1 protocols encompasses a set of several standards, each one addressing its own aspect of the suite. This standard provides an overview of DSS1 Layer 3 functions and protocols. It also provides a list of the standards in which the individual aspects of the DSS1 Layer 3 suite are defined.

Users of the other standards in the DSS1 Layer 3 suite of standards will find this overview standard to be a useful introduction to them. Also, this standard will provide a useful bibliography of the other available standards.

The Alliance for Telecommunication Industry Solutions (ATIS) serves the public through improved understanding between providers, customers, and manufacturers. The Packet Technologies and Systems Committee (PTSC) develops and recommends standards and technical reports related to services, architectures, and signaling, in addition to related subjects under consideration in other North American and international standards bodies. PTSC coordinates and develops standards and technical reports relevant to telecommunications networks in the U.S., reviews and prepares contributions on such matters for submission to U.S. ITU-T and U.S. ITU-R Study Groups or other standards organizations, and reviews for acceptability or per contra the positions of other countries in related standards development and takes or recommends appropriate actions.

Many of PTSC's participants are also active participants in similar activities of the ITU-T. Therefore, this standard is consistent with ITU-T Recommendation Q.930 (1988).

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 document are welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, PTSC, 1200 G Street NW, Suite 500, Washington, DC 20005.

At the time of consensus on this document, PTSC, which was responsible for its development, had the following leadership:

M. Dolly, PTSC Chair (AT&T)
V. Shaikh, PTSC Vice-Chair (ACS)
M. Dolly, PTSC SAC Chair (AT&T)

The **SAC** Subcommittee was responsible for the development of this document.

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