



ATIS-0300236.2005(S2016)

**SIGNALING SYSTEM 7 (SS7) –
ISDN USER PART COMPATIBILITY TESTING**

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ATIS-0300236.2005, Signaling System 7 (SS7) – ISDN User Part Compatibility Testing

Is an American National Standard developed by the **Signaling Test Specification Task Force** under the **ATIS Telecom Management and Operations Committee (TMOC)**.

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Signaling System 7 (SS7) – ISDN User Part Compatibility Testing

Secretariat

Alliance for Telecommunications Industry Solutions

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American National Standards Institute, Inc.

Abstract

This standard addresses the testing required for internetwork connections employing Common Channel Signaling (CCS) based on Signaling System No. 7 (SS7) protocol used in North America. The internetwork connection may be either within or between North American countries. This standard provides a list of test scripts for testing compatibility between the interconnecting networks of the ISDN User Part (ISUP) of the SS7 protocol used for call control and circuit supervision.

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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The scope of the work in TMOC includes the development of standards and other documentation for communications network operations and management areas, such as: Configuration Management, Performance Management (including in-service transport performance management), Fault Management, Security Management (including management plane security), Accounting Management, Coding/Language Data Representation, Common/Underlying Management Functionality/Technology, and Ancillary Functions (such as network tones and announcements). This work requires close and coordinated working relationships with other domestic and international standards development organizations and industry forums.

The 2005 revision to this document added a test (I-11.4) covering receipt of a national-use CPC parameter value at an international (ANSI SS7 to/from ITU-T SS7) or cross-border (ANSI SS7 to/from ANSI SS7) gateway exchange.

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

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American National Standard

Signaling System 7 (SS7) – ISDN User Part Compatibility Testing

1 SCOPE, PURPOSE, AND APPLICATION

1.1 Scope

This standard addresses the testing required for internetwork connections employing Common Channel Signaling (CCS) based on Signaling System No. 7 (SS7) protocol used in North America. The internetwork connection may be either within or between North American countries. This standard provides a list of test scripts for testing compatibility between the interconnecting networks of the ISDN User Part (ISUP) of the SS7 protocol used for call control and circuit supervision. This standard references material in ANSI T1 SS7 protocol standards. (See clause 2.)

1.2 Purpose

This standard provides a uniform basis for testing the compatibility of the ISUP of the SS7 protocol implementation in the Signaling Points (SPs) of interconnection networks. This part of the protocol is used for call control (e.g., call setup/release) and circuit supervision.

1.3 Application

The nature of Common Channel Signaling makes it imperative that the SPs within interconnecting networks be compatible.

The primary application of this standard is to ensure that call control capabilities of SPs used for interconnecting networks employing SS7 protocol in North America are addressed appropriately. It is assumed that the MTP levels 2 and 3 compatibility tests have been performed successfully between interconnecting networks.

The interconnecting networks may have call-through tests they wish to perform in addition to the tests listed in this standard. In that case, those tests would be outside of this standard, and should be part of a bilateral agreement developed for SS7 network interconnection testing.

Compatibility testing may disturb the operation of the SPs. Any ISUP tests that may cause disturbance to the SPs should be carefully selected to meet the operational criteria of the two interconnecting SS7 networks.

2 NORMATIVE REFERENCES

The following standards contain provisions which, through reference in this text, constitute provisions of this American National Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this American National Standard