



ATIS STANDARD

ATIS-1000050.2012(S2022)

**Next Generation Network (NGN) Operator Regular
Intercept Standard**

AMERICAN NATIONAL STANDARD FOR TELECOMMUNICATIONS



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ATIS-1000050.2012(S2022), *Next Generation Network (NGN) Operator Regular Intercept Standard*

Is an American National Standard developed by the ATIS **Packet Technologies and Systems Committee (PTSC)**.

Published by

Alliance for Telecommunications Industry Solutions
1200 G Street, NW, Suite 500
Washington, DC 20005

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American National Standard for Telecommunications

Next Generation Network (NGN) Operator Regular Intercept Standard

Alliance for Telecommunications Industry Solutions

Approved August 9, 2012

American National Standards Institute, Inc.

Abstract

This standard describes Next Generation Network (NGN) signaling support for Operator Regular Intercept. The service may be invoked when an NGN caller attempts to set up a call/session to an 'intercepted number' where the address of the called party has changed. In the event that the old address has been replaced with multiple new addresses ('split referral'), interaction with the calling party is required to determine the appropriate new address ('referral number').

The scope of this standard includes:

1. SIP signaling for a call reaching an intercepted number in the NGN where all or part of the Intercept Service is provided by the Application Server associated with other terminating services for this destination.
2. SIP signaling for a call to an intercepted number in the NGN that is directed toward an application in the NGN, or in another NGN, which provides the Intercept Service.

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 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.

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Suggestions for improvement of this document are welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, PTSC, 1700 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 (Applied Communication Sciences)
- M. Dolly, PTSC SAC Chair (AT&T)
- W. Downum, Technical Editor (Ericsson)
- C. Underkoffler, ATIS Chief Editor

The Signaling, Architecture, and Control (SAC) Subcommittee was responsible for the development of this document.

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Next Generation Network (NGN) Operator Regular Intercept Standard

1 Introduction

This standard describes NGN signaling support for Operator Regular Intercept service, analogous to the PSTN Intercept service defined in [ATIS-1000666] for the case where the called party number has changed. When a call termination attempt is addressed to such a destination (the ‘intercepted number’), then Operator Regular Intercept service indicates (e.g., by playing a verbal announcement) the reason the call cannot be completed. Additional information may also be provided to the caller – e.g., providing a new destination address. Operator Regular Intercept service may also offer the caller Call Completion functionality, as defined in [ATIS-1000027].

2 Scope & Purpose

This standard describes NGN signaling support for Operator Regular Intercept service.

The details of the caller interaction with the Operator Regular Intercept service (e.g., the specific announcement that might be provided to the caller) are out of the scope of this standard.

The scope of this standard includes:

1. SIP signaling for a call reaching an intercepted number in the NGN where all or part of the Intercept Service is provided by the Application Server associated with other terminating services for this destination.
2. SIP signaling for a call reaching an intercepted number in the NGN and directed toward an application in the NGN, or in another NGN, which provides the Intercept Service.

Interconnection is assumed to be between trusted domains; the information and parameters required for this service are only available either within a trust domain or between trusted domains. In addition, in the absence of trust, and depending on exactly which information is not trusted, basic call setup may not function as expected.

3 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

[ATIS-1000009] ATIS-1000009.2006 (R2011), *IP Network-to-Network Interface (NNI) Standard for VoIP*.¹

¹ This document is available from the Alliance for Telecommunications Industry Solutions (ATIS), 1200 G Street N.W., Suite 500, Washington, DC 20005. < <https://www.atis.org/docstore/default.aspx> >