ATIS-1000109.2014(R2019)

Exchange- Interexchange Carrier Interfaces – 950+XXXX EC-to-IC Access Signaling Protocols

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ATIS-1000109.2014(R2019), *Exchange-Interexchange Carrier Interfaces – 950+XXXX EC-IC Access Signaling Protocols*

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American National Standard for Telecommunications

Exchange-Interexchange Carrier Interfaces – 950+XXXX EC-to-IC Access Signaling Protocols

Alliance for Telecommunications Industry Solutions

Approved June, 2014

American National Standards Institute, Inc.

Abstract

The purpose of this standard is to enable an exchange carrier (EC) entity and an interexchange carrier (IC), or consolidated carrier entity to provide interconnecting equipment that operates compatibly. This standard is one of a series of standards that gives individual-channel signaling protocol requirements for the interface located between a public switched EC network within an access area and an IC, INC, or consolidated carrier network.

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.

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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Exchange-Interchange Carrier Interfaces – 950+XXXX EC-to-IC Access Signaling Protocols

1 Scope, Purpose, & Application

1.1 Scope

This standard is one of a series of interface compatibility specifications prepared by the Services, Architecture, and Signaling Interfaces Subcommittee of Committee Tl. The series provides technical requirements for the interfacing of cellular mobile carriers (CMCs), wireline exchange carriers (ECs), interexchange carriers (ICs), international carriers (INCs), and consolidated carriers in paired interface combinations.

This standard provides technical requirements for EC-to-IC calls using an Exchange-Interexchange (E-1) Interface that interconnects a switching system in the EC network with a switching system in the IC, INC, or consolidated carrier network. The interface is at a point of termination (POT) between the two switching systems.

Technical requirements for IC-to-EC calls are described in American National Standard for Telecommunications - Exchange-Interexchange Carrier Interfaces - Individual Channel Signaling Protocols, ANSI Tl.104-1988.

In the remainder of this standard, unless otherwise noted, the term IC connotes IC, INC, or consolidated carrier.

This standard supersedes ATIS-1000109.1990(R2009), in which the carrier access code was specified as 950+\VXXX where W = 0 or 1 and X = 0 to 9.

1.2 Purpose

The purpose of this standard is to enable separate entities to provide interconnecting equipment that will operate compatibly Quantitative descriptions are provided in this standard of the specific characteristics of the interconnecting systems required to achieve this objective.

1.3 Application

1.3.1 Interface

This standard establishes the technical requirements of the interface that is located between a public switched EC network and an IC network that has the following characteristics:

a) The connection between the POT and the first point of EO switching is on a trunk-signaling basis.

b) The carrier access code is 950+XXXX, where X= 0 to 9.

c) On EC-to-IC calls, the EC sends, when applicable, the carrier access code and calling line information to the IC at the times and in the order specified by the signaling protocol.