ATIS-0300217.2013(S2023)

Integrated Services Digital Network (ISDN) Management – Primary Rate Physical Layer

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American National Standard for Telecommunications

Integrated Service Digital Network (ISDN) Management – Primary Rate Physical Layer

Alliance for Telecommunications Industry Solutions

Approved April 8, 2013

American National Standards Institute, Inc.

Abstract

This standard provides the maintenance operations requirements for primary rate physical layer ISDN access. It provides functional requirements to support maintenance and is not meant to be an equipment specification.

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 Telecom Management and Operations Committee (TMOC) develops operations, administration, maintenance and provisioning standards, and other documentation related to Operations Support System (OSS) and Network Element (NE) functions and interfaces for communications networks - with an emphasis on standards development related to U.S.A. communication networks in coordination with the development of international standards.

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, TMOC, 1200 G Street NW, Suite 500, Washington, DC 20005.

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

T. Barrett TMOC Chair (AT&T)
S. Kiewel, TMOC Vice Chair (Ericsson)
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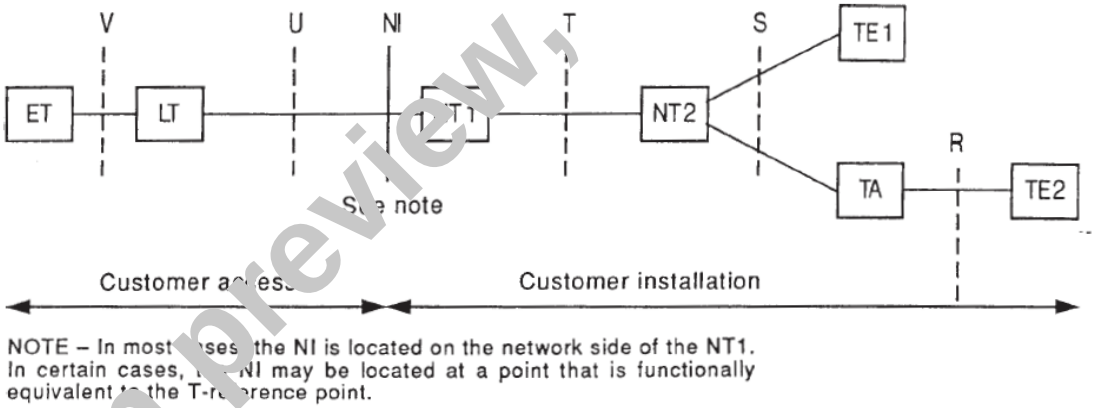
1 Purpose, Scope, & Structure

1.1 Purpose

The purpose of this standard is to establish required capabilities for the maintenance and operations needed for the primary rate physical layer associated with access to Integrated Services Digital Networks (ISDNs).This standard establishes needed maintenance functionality in customer and network equipment, particularly from the perspective of maintenance functionality available at the network boundary and from Operations Systems.

1.2 Scope

This document covers maintenance of the Primary Rate Access (PRA) physical layer, which consists of equipment and facilities that exist as part of the customer access and the customer installation (see Figure 1).



NOTE – In most cases the NI is located on the network side of the NT1. In certain cases, the NI may be located at a point that is functionally equivalent to the T-reference point.

Figure 1 - ISDN Primary Access Reference Configuration

Maintenance of the data-link and network layers associated with the primary rate interface is covered in another ISDN management standard.