



ATIS-0300097.2022

Structure for the Identification of  
Communications Connections for Information Exchange

AMERICAN NATIONAL STANDARD FOR TELECOMMUNICATIONS



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## ATIS-0300097.2022, *Structure for the Identification of Communications Connections for Information Exchange*

Is an American National Standard developed by the ATIS **Telecom Management and Operations Committee (TMOC)**.

Published by

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

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**ATIS-0300097.2022**

American National Standard for Telecommunications

# **Structure for the Identification of Communications Connections for Information Exchange**

**Alliance for Telecommunications Industry Solutions**

Approved July 29, 2022

**American National Standards Institute, Inc.**

## **Abstract**

This standard provides the code and format structures necessary for identification of communications connections and describes the code structures with various combinations of data units represented within those structures. This standard contains clauses that cover its purpose and scope, described format structures and data elements for message trunks and message trunk groups, special services, circuits, and facilities. It also contains definitions and references. Its intended use is to provide a standard that facilitates information exchange among humans and machines.

## Foreword

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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 Telecommunications Industry Solutions (ATIS) serves the public through improved understanding between carriers, customers and manufacturers. The Telecom Management and Operations Committee (TMOC) – formerly T1M1 – develops operations, administration, maintenance and provisioning standards and other documentation related to Operations Support Systems (OSS) and Network Element (NE) functions and interfaces for the communications networks – with an emphasis on standards development related to U.S.A. communication networks in coordination with the development of international standards.

These codes are recognized as the de facto industry standards for information exchange. The code structure and format portion of this standard is compatible with the CLCI™ MSG and CLCI™ S/S code designs for the identification of circuits as well as CLFI™ for the identification of facilities. They are embedded in records for inventory management, capacity management, network and traffic routing, and trouble management/resolution, among others. They are also in widespread use in information exchange on ordering, provisioning, billing, and service assurance records within the industry.

ANSI guidelines specify two categories of requirements; mandatory and recommendation. The mandatory requirements are designated by the word *shall* and recommendation 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.

This standard contains two annexes which are for information only and is not considered part of this standard.

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

At the time it approved this document, TMOC, which is responsible for the development of this Standard, had the following leadership:

P. Galarza, TMOC Chair (iconectiv)

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American National Standard for Telecommunications –

# Structure for the Identification of Communications Connections for Information Exchange

## 1 Scope & Purpose

This standard addresses the code and format structures for both circuit connections as well as facility connections. Both types of connections are depicted through seven application specific combinations of data unit representation (four format structures). The seven format structures are:

- Message trunk circuits.
- Message trunk groups.
- Special services circuits.
- Cable facilities.
- Cable facilities with pair identification.
- Carrier facilities.
- Carrier facilities with channel/time slot identification.

This standard is intended to support various intercompany processes for both humans and machines as it relates to business supporting functions. Some example applications include:

- *Planning, Forecasting, and Reporting.*
- *Engineering and Inventory Management: Circuit/Design Layout Records (CLR/DLR).*
- *Ordering: Access/Local Service Request (ASP/LSR), Firm Order Confirmation (FOC).*
- *Service Order/Work Order Processing.*
- *Billing: Carrier Access (CABS).*
- *Trouble Administration.*

This standard also outlines the responsibilities of the maintenance agent.