

ATIS-0300091.2024

(Revision of ATIS-0300091.2018)

American National Standard for Telecommunications

**Structure for Global Serialization of
Information and Communications Technology (ICT)
Network Infrastructure Equipment**

Alliance for Telecommunications Industry Solutions

Approved April 29, 2024

American National Standards Institute, Inc.

Abstract

This standard provides a format and structure for assigning serial numbers to telecommunications infrastructure equipment.

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.

This document is entitled *Structure for Global Serialization of Information and Communications Technology (ICT) Network Infrastructure Equipment*. This American National Standard provides a format and structure for assigning serial numbers to telecommunications infrastructure equipment. This standard contains sections that cover the purpose and scope of this information.

This standard specifies the serial number structure using a unique Issuing Agency Code per ISO/IEC 15459-2, a unique Manufacturer Identification Segment assigned by the Issuing Agency and a unique serial number, assigned by the company designated by the Manufacturer Identification Segment.

This standard does not replace the Electronic Serial Number (ESN) or the Mobile Equipment Identifier (MEID) which conform to the cellular radio telecommunications intersystem operations family of standards, TIA/EIA-41; advanced mobile phone service (AMPS), TIA/EIA-553 and subsequent revisions; narrowband analog mobile phone service (NAMPS), TIA/EIA-691 and subsequent revisions; code division multiple access (CDMA), TIA/EIA-95, TIA/EIA/IS-2000 and subsequent revisions; and time division multiple access (TDMA), TIA/EIA-136.

The Alliance for Telecommunication 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 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 it approved this document, TMOC, which is responsible for the development of this Standard, had the following leadership:

P. Galarza, TMOC Chair (iconectiv)

The Telecom Management and Operations Committee (TMOC) was responsible for the development of this document.

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American National Standard for Telecommunications –

Structure for Global Serialization of Information and Communications Technology (ICT) Network Infrastructure Equipment

1 Scope, Purpose, & Application

1.1 Scope

This standard provides recommendations for globally unique serial identification for infrastructure equipment used in Information and Communications Technology (ICT) networks. It includes four options that can be used to ensure uniqueness in a serialization process within a company. Manufacturers, suppliers, and related services companies are responsible for ensuring that their process results in serial numbers that are unique.

Intended applications include – but are not limited to – support of systems that automate the control of products during the processes of production, inventory, distribution, field service, and repair.

This standard does not replace the Electronic Serial Number (ESN) or the Mobile Equipment Identifier (MEID) which conform to the cellular radio telecommunications intersystem operations family of standards, TIA/EIA-41; advanced mobile phone service (AMPS), TIA/EIA-553, and subsequent revisions; narrowband analog mobile phone service (NAMPS), TIA/EIA-691, and subsequent revisions; code division multiple access (CDMA), TIA/EIA-95, TIA/EIA/IS-2000, and subsequent revisions; and Time Division Multiple Access (TDMA), TIA/EIA-136.

1.2 Purpose

The purpose of this standard is to provide a uniform method of creating the globally unique serial identification for the telecommunications industry by recommending the code structure for the unique serial identification used by manufacturers, suppliers, and related services companies to uniquely serialize products bearing the same manufacturer identification within a company.

2 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 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

2.1 Normative References

ANS MH10.8.2, *Data Application Identifier Standard*.^{1, 2}

ATIS-0300220, *Structure for the Representation of the Communications Industry Manufacturers, Suppliers, and Related Service Companies for Information Exchange*.³

¹ This document is available from the American National Standards Institute (ANSI), 25 West 43rd Street, New York, NY 10036. Telephone: (212) 642-4900. Fax: (212) 398-0023. Web site: < <http://webstore.ansi.org/default.aspx> >.

² For current information or requests for new data identifiers, contact the Material Handling Institute (MHI) using the DI Request Form: < <http://www.mhi.org/downloads/learning/standards/di-request.docx> >.

³ 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> >