ATIS-0300038

ATIS Standard on -

Product Marking Implementation Guide

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Alliance for Telecommunications Industry Solutions

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Abstract

The purpose of this guideline is to provide a uniform method of marking products for the telecommunications industry using linear bar codes, a two-dimensional symbology or a transitional symbology.

Foreword

The Alliance for Telecommunications Industry Solutions (ATIS) serves the public through improved understanding between carriers, customers, and manufacturers. The mission of the AIDC is to establish guidelines for common shipping labels, product marking labels, product changes and software issuance standards. These common guidelines simplify the receiving, shipping, transportation and tracing of telecommunications products through company and industry business processes and the global supply chain. The Automatic Identification and Data Capture (AIDC - Formerly BCSC) Committee was a former working committee of the Telecommunications Industry Forum.

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. The word *may* denotes a optional capability that could augment the standard. The standard is fully functional without the incorporation of this optional capability.

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

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1 Introduction

The Automatic Identification and Data Capture Committee (AIDC) of ATIS has identified and recommended the following product identification coding structures and a unique serial identification structure for use by the telecommunications industry companies (See ATIS-0300005):

1. The CLEI™ Coding system, administered by Telcordia Technologies, defines the use and implementation of CLEI Code product identification. CLEI Codes are 10-character intelligent codes that conform to the requirements of ANSI ATIS-0300213 and provide the coded identification of equipment entities of the North American Telecommunications System for information exchange.

2. The GS1 System, administered by GS1 (formerly EAN International and the Uniform Code Council), defines the use of the Global Trade Item Number (GTIN), formerly referred to as the Universal Product Code (U.P.C.). The GS1 numbering system encompasses both the former EAN International Numbering System and the Universal Product Code (U.P.C.) identifier within a 14-digit GTIN code. The definition, use and implementation of the GS1 System are covered in the GS1 General Specifications. These specifications provide detailed definitions of the GS1 System and product identifiers.

   NOTE: In this guideline, the bar code symbols for the GS1 System will be referred to as GTIN-12 for the symbology which encodes the 12-digit U.P.C. number (formerly UPC-A), GTIN-13 for the symbology which encodes the 13-digit number (formerly EAN-13) and GS1-128 for the symbology which encodes the 14-digit GTIN-14 number (formerly UCC/EAN-128)

3. If the product does not have a GTIN or a CLEI Code assigned, then the manufacturer's equipment identifier shall be used.

4. The United States Department of Defense (DoD) Unique Identification (UID) is a unique serial identification method that is required by the DoD. It is derived from multiple data items that have been combined into a single string or message with specific formatting requirements. The intent of the UID is to identify both the supplier of the item and the identity of the item in one, single symbol. The UID is the primary means of identifying the item by the DoD. It will be used when contacting the supplier regarding a specific item.

5. ANSI ATIS-0300091 describes the recommended structure for Unique Serial Identification of telecommunications products. The ATIS-0300078 guideline describes implementation of Unique Serial Identification per ATIS-0300091, including migration from legacy forms of serialization. ISO/IEC 15459-4 refers to the Unique Serial Identification for an item as the Unique Item Identifier (UII).

1.1 Purpose

The purpose of this guideline is to provide a uniform method of marking products for the telecommunications industry using the required two-dimensional (2D) symbology. The Product Marking 2D Implementation Roadmap and Hierarchy History is provided for historical reference in Appendix A. Information on legacy products that were marked with linear bar codes prior to the 2D Implementation Date of October 1, 2006 is provided in Appendix B.

1.2 Scope

This guideline provides recommended product marking with machine-readable symbols for products used by telecommunications companies. It covers both labels and direct marking of products. This guideline references and is based on ISO 28219 which currently includes testing procedures for label adhesive characteristics and mark durability. The currently proposed draft standard, ANSI MH10.8.13 is expected to include the information on testing procedures for label adhesive characteristics and mark durability.

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.

1.3 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-0300091.2012– Serialization Standard for Telecommunications Network Infrastructure Equipment[1]

ATIS-0300213.2006 – Coded Identification of Equipment Entities of the North American Telecommunications System for Information Exchange[2]

ATIS-0300220.2011 – Representation of the Communications Industry Manufacturers, Suppliers, and Related Service Companies for Information Exchange[3]

ANSI ESD S20.20, American National Standard For the Development of an Electrostatic Discharge Control Program for – Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices)[4]

ANSI MH10.8.2, Data Application Identifier Standard[5]

ANSI MH10.8.3, Transfer Data Syntax for High Capacity ADC Media[6]

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[1] Available from the Alliance For Telecommunications Industry Solutions (ATIS), 1200 G Street NW, Suite 500, Washington, DC 20005, Telephone: +1 202.434.8844, Fax: +1 202.393.5453, Web site: http://www.atis.org/docstore/product.aspx?id=26784

[2] Available from the Alliance For Telecommunications Industry Solutions (ATIS), 1200 G Street NW, Suite 500, Washington, DC 20005, Telephone: +1 202.434.8844, Fax: +1 202.393.5453, Web site: http://www.atis.org/docstore/product.aspx?id=22608

[3] Available from the Alliance For Telecommunications Industry Solutions (ATIS), 1200 G Street NW, Suite 500, Washington, DC 20005, Telephone: +1 202.434.8844, Fax: +1 202.393.5453, Web site: http://www.atis.org/docstore/product.aspx?id=25668

[4] This document is available from the Electronic Static Discharge Association, 7900 Turin Road, Building 3, Rome, NY 13440-2069. Telephone: (315) 339-6937, Fax: (315) 339-6793, email: info@esda.org, Web site: http://www.esda.org/keydownloads.html

[5] This document is available from the American National Standards Institute (ANSI), 25 West 43rd Street (between 5th and 6th Avenues), 4th floor, New York, NY 10036. Telephone: (212) 642-4900, Web site: http://www.mhia.org/mh10 (Check draft document under SC8 – Draft Document for Trial Use. It has the most recently approved Data identifiers.). For current information or requests for new data identifiers contact ANSI MH10.8 Data Application Identifier Work Group chairperson at P.O. Box 2524, Cedar Rapids, IA 52406-2524. Telephone: (319) 364-0212, Fax: (319) 365-8814, Web site: http://www.qed.org . See ISO/IEC 15418 below.

[6] This document is available from the MH10 secretariat, The Material Handling Industry, 8720 Red Oak Blvd., Suite 201, Charlotte, NC 28217-3992. Telephone: (704) 522-8644, Web site: http://www.mhia.org/mh10.