



**ATIS-0300038**

ATIS Standard on -

**Product Marking Implementation Guide**



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# **Product Marking Implementation Guide**

**Alliance for Telecommunications Industry Solutions**

Approved May 2010 (Revised August 2023)

## **Abstract**

This guideline provides a uniform method of marking products for the telecommunications industry using linear bar codes, a two-dimensional symbology, or a transitional symbology. As of October 2006, 2D bar code labels are preferred over linear labels; the industry has found that the data within 2D labels enhances tracking assets.

## Foreword

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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 an 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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**TABLE OF CONTENTS**

**1 INTRODUCTION .....1**

1.1 PURPOSE.....1

1.2 SCOPE.....2

**2 REFERENCES.....2**

2.1 NORMATIVE REFERENCES.....2

2.2 INFORMATIVE REFERENCES .....5

**3 DEFINITIONS, ACRONYMS, & ABBREVIATIONS .....5**

3.1 DEFINITIONS.....5

3.2 ACRONYMS & ABBREVIATIONS .....7

**4 DATA FORMAT .....8**

**5 PRODUCT MARKING HIERARCHY .....9**

5.1 LABEL CONTENT HIERARCHY .....9

5.1.1 For Labels with CLEI Code and Unique Serial Identification.....9

5.1.2 For Labels with CLEI Code, GTIN and Unique Serial Identification..... 10

**6 PRODUCT MARKING DATA ELEMENTS..... 10**

6.1 UNIQUE SERIAL IDENTIFICATION ..... 10

6.2 CLEI CODE..... 10

6.3 GLOBAL TRADE ITEM NUMBER ..... 11

6.3.1 GTIN Database Requirement ..... 11

6.3.2 The Universal Product Code (GTIN-12 – Formerly UPC) ..... 12

6.3.3 GTIN-13 ..... 13

6.3.4 The GTIN-14 ..... 13

6.4 MANUFACTURER’S EQUIPMENT IDENTIFIER ..... 13

**7 PRODUCT MARKING WITH 2D SYMBOLS..... 14**

7.1 RECOMMENDED SYMBOLOGIES ..... 14

7.1.1 MicroPDF417 ..... 14

7.1.2 PDF417 ..... 14

7.1.3 Data Matrix ECC200 ..... 15

7.2 DATA FIELD SYNTAX..... 15

7.2.1 Transmitted Data on Two-dimensional Symbols ..... 15

7.2.2 2D Symbol Compression ..... 17

7.3 MANDATORY DATA ..... 17

7.3.1 Unique Serial Identification ..... 17

7.3.2 Product Identification ..... 21

7.3.3 Manufacturer’s Product Identification ..... 23

7.4 ADDITIONAL DATA FIELDS IN 2D SYMBOLS..... 23

7.4.1 Department of Defense Unique Identification ..... 23

7.4.2 Country of Origin ..... 26

7.4.3 Other Data ..... 26

7.5 HUMAN-READABLE INFORMATION..... 26

7.6 PRINTING REQUIREMENTS FOR MICROPDF417 AND PDF417 SYMBOLS ..... 27

7.6.1 Cell Size and X Dimension ..... 27

7.6.2 Element Height ..... 27

7.6.3 Symbol Size ..... 28

7.6.4 Quiet zone..... 29

7.6.5 Print Quality ..... 29

7.6.6	<i>Error Correction Level</i> .....	29
7.6.7	<i>Encryption</i> .....	30
7.7	PRINTING REQUIREMENTS FOR DATA MATRIX SYMBOLS.....	31
7.7.1	<i>Cell Size and X Dimension</i> .....	31
7.7.2	<i>Element Height</i> .....	31
7.7.3	<i>Symbol Size</i> .....	31
7.7.4	<i>Quiet Zone</i> .....	32
7.7.5	<i>Print Quality</i> .....	32
7.7.6	<i>Error Correction</i> .....	32
7.8	MISCELLANEOUS REQUIREMENTS FOR PRODUCT MARKING SYMBOLS.....	32
7.8.1	<i>Encryption</i> .....	32
7.8.2	<i>Character set in a 2D symbology</i> .....	32
7.8.3	<i>Human-Readable Character Size</i> .....	32
<b>8</b>	<b>LABEL EXAMPLES</b> .....	<b>33</b>
8.1	2D SYMBOLS.....	33
8.1.1	<i>MicroPDF417</i> .....	33
8.1.2	<i>PDF417</i> .....	35
8.1.3	<i>Data Matrix</i> .....	36
8.2	HUMAN-READABLE LABEL.....	37
<b>9</b>	<b>LABEL REQUIREMENTS</b> .....	<b>37</b>
9.1	LABEL MEDIA AND RIBBONS.....	37
9.2	LABEL ADHESIVE CHARACTERISTICS AND MARK DURABILITY.....	37
9.3	LABEL PLACEMENT CONSIDERATIONS.....	38
<b>10</b>	<b>ON-DEMAND PRINTING CONSIDERATIONS</b> .....	<b>38</b>
10.1	EQUIPMENT.....	38
10.1.1	<i>Printers</i> .....	38
10.1.2	<i>Verifiers</i> .....	39
<b>11</b>	<b>SCANNER CONSIDERATIONS</b> .....	<b>40</b>
11.1	SYMBOLOLOGIES.....	42
11.2	CELL SIZE / X DIMENSION.....	42
11.3	MAXIMUM SYMBOL WIDTH.....	42
11.4	SCANNER MANUFACTURER REQUIREMENTS.....	43
11.5	SCANNER TYPES.....	43
11.5.1	<i>Laser Scanners</i> .....	44
11.5.2	<i>Linear CCD Scanners</i> .....	45
11.5.3	<i>Imagers (also Array CCD Scanners)</i> .....	45
11.6	OTHER CONSIDERATIONS.....	45
11.7	SCANNER PERFORMANCE TESTING.....	45
<b>ANNEX A</b>	<b>- PRODUCT MARKING 2D IMPLEMENTATION ROADMAP AND HIERARCHY HISTORY</b> .....	<b>46</b>
A.1	IMPLEMENTATION DATE OVERVIEW.....	46
A.2	LABEL CONTENT HIERARCHY FOR LABELS WITH CLEI CODE AND USI.....	47
<b>ANNEX B</b>	<b>- PRODUCT MARKING WITH LINEAR BAR CODE SYMBOLS</b> .....	<b>49</b>
B.1	SYMBOLOLOGIES.....	49
B.2	DATA FIELD SYNTAX.....	49
B.2.1	<i>Data Field Identifier Usage</i> .....	49
B.2.2	<i>Concatenation of Multiple Data Fields</i> .....	49
B.3	MANDATORY DATA INCLUDED IN THE LINEAR BAR CODE SYMBOL.....	50
B.4	ADDITIONAL DATA FIELDS IN LINEAR BAR CODE SYMBOLS.....	52

B.4.1 Unique Serial Identification .....	52
B.4.2 Country of Origin .....	53
B.4.3 Other fields required by customer or manufacturer/supplier .....	53
B.5 HUMAN READABLE INFORMATION .....	53
B.6 PRINTING REQUIREMENTS FOR LINEAR SYMBOLS .....	53
B.6.1 X Dimension .....	53
B.6.2 Symbol Height .....	54
B.6.3 Quiet Zone .....	54
B.6.4 Print Quality .....	54
B.6.5 Human Readable .....	55
B.7 LINEAR SYMBOL EXAMPLES .....	56
B.7.1 Code 39 Label (GR-383-CORE Type F Label) .....	56
B.7.2 Code 39 Slit Label (GR-383-CORE Type G Label) .....	56
B.7.3 UPC-A 12-digit Label for Telecommunications Products that could Enter the Retail Supply Chain .....	56
B.7.4 Code 128 Serial Number Label .....	56
B.7.5 GS1-128 Serial Number Label (when using AI with linear bar codes) .....	57
B.7.6 GS1-128 Serial Number Label with a Concatenated Country of Origin (when using AI with linear bar codes) .....	57
B.7.7 GS1 128 USI Label .....	57
B.7.8 Label with ECI Number encoded in Code 39 and USI encoded in Code 128 .....	57
B.7.9 Code 39 and MicroPDF417 Label (GR-383-CORE [Ref 14] Type F and Type M Labels) .....	58
<b>ANNEX C - TRANSITION ALTERNATIVE FOR PRODUCTS WITH CLEI CODES .....</b>	<b>59</b>
C.1 DATA FORMAT ENCODED IN THE SYMBOL .....	59
C.1.1 Data Elements in Code 39 linear symbol .....	60
C.1.2 Data Elements in the MicroPDF417 symbol .....	60
C.2 ENCODING A TLC39 SYMBOL .....	60
C.3 DECODING A TLC39 SYMBOL .....	63
C.4 TRANSMITTED DATA .....	65
C.4.1 ECI only .....	65
C.4.2 ANSI MH10.8.3 2D Syntax .....	65
C.5 TL39 LABEL EXAMPLE .....	65
<b>ANNEX D – SUBSET OF ASCII/ISO 646 (TABLE OF HEXADECIMAL AND DECIMAL VALUES) .....</b>	<b>66</b>
<b>ANNEX E - LABEL ADHESIVE CHARACTERISTICS AND MARK DURABILITY .....</b>	<b>68</b>
GENERAL .....	68
E.2 REQUIREMENTS .....	68
E.2.1 Label Thickness .....	68
E.2.2 Nature of Adhesive .....	68
E.2.3 Adhesion Strength .....	69
E.2.4 Label Requirements after Conditioning and Printed Circuit Board Processing .....	69
E.2.5 Abrasion .....	69
E.3 METHOD OF TEST .....	69
E.3.1 Label Thickness .....	69
E.3.2 Nature of Adhesive .....	69
E.3.3 Adhesive Strength .....	69
E.3.4 Additional Label Conditioning Tests for Labels or Marks Required to Withstand Printed Circuit Board Processes .....	71
E.3.5 Abrasion test .....	73
E.4 .....	76
E.3.4 Additional Label Conditioning Tests for Labels or Marks Required to Withstand Printed Circuit Board Processes .....	76
E.3.5 Abrasion test .....	79

**Table of Figures**

FIGURE 1 - CLEI CODE STRUCTURE ..... 11

FIGURE 2 - GTIN STRUCTURE ..... 12

FIGURE 3 - GTIN-12 DATA STRUCTURE ..... 12

FIGURE 4 - GTIN-14 STRUCTURE ..... 13

FIGURE 5 - MICROPDF417 SYMBOL ..... 14

FIGURE 6 - PDF417 SYMBOL ..... 15

FIGURE 7 - COMPACT VERSION OF THE PDF417 SYMBOL ..... 15

FIGURE 8 - DATA MATRIX SYMBOL ..... 15

FIGURE 9 – MESSAGE SYNTAX USING DATA IDENTIFIERS ..... 16

FIGURE 10 - MESSAGE SYNTAX USING APPLICATION IDENTIFIERS ..... 16

FIGURE 11 - EXAMPLE OF UNIQUE SERIALIZATION USING DATA IDENTIFIER 25S ..... 19

FIGURE 12 - EXAMPLE OF UNIQUE SERIALIZATION USING DATA IDENTIFIER S ..... 19

FIGURE 13 - METHOD 1: UID MESSAGE SYNTAX USING DI ..... 24

FIGURE 14 - METHOD 2: UID MESSAGE SYNTAX USING DI ..... 24

FIGURE 15 - METHOD 3: UID MESSAGE SYNTAX USING DI ..... 24

FIGURE 16 - METHOD 4: UID MESSAGE SYNTAX USING DI ..... 25

FIGURE 17 - METHOD 5: UID MESSAGE SYNTAX USING DI ..... 25

FIGURE 18 - HR CLEI CODE, MICROPDF417 AND MR/HR USI (TABLE 1 AND 2 PRIORITY 1, LABEL) ..... 33

FIGURE 19 - HR CLEI CODE AND MICROPDF417; HR USI IN SEPARATE LABEL (TABLE 1 PRIORITY 2 LABEL) ..... 33

FIGURE 20 - SEPARATE LABELS FOR HR CLEI CODE AND MICROPDF417; HR USI IN SEPARATE LABEL (TABLE 1 PRIORITY 3 AND PRIORITY 4 LABELS) ..... 33

FIGURE 21 - SEPARATE LABELS FOR HR CLEI CODE AND MICROPDF417; NO HR USI (TABLE 2 PRIORITY 5 AND PRIORITY 6 LABELS) ..... 34

FIGURE 22 - MICROPDF417 WITH MR/HR CLEI CODE, GTIN AND USI (TABLE 2 PRIORITY 1 LABEL) ..... 34

FIGURE 23 - MICROPDF417 WITH MR/HR CLEI CODE AND USI, GTIN SEPARATE (TABLE 2 PRIORITY 2 LABEL) ..... 34

FIGURE 24 - MICROPDF417 WITH MR/HR CLEI CODE, GTIN AND USI SEPARATE (TABLE 2 PRIORITY 3 LABEL) ..... 34

FIGURE 25 - HR CLEI CODE LABEL AND SEPARATE LABELS FOR MICROPDF417, HR USI, AND GTIN (TABLE 2 PRIORITY 4 LABEL) ..... 35

FIGURE 26 - HR GTIN AND MICROPDF417 WITHOUT CLEI CODE AND GTIN IN SEPARATE LABELS (TABLE 2 PRIORITY 5 LABEL) ..... 35

FIGURE 27 - MICROPDF417 LABEL AND SEPARATE LABELS FOR HR CLEI CODE, HR USI AND GTIN (TABLE 2 PRIORITY 6 LABEL) ..... 35

FIGURE 28 - PDF417 LABEL USING DI ..... 36

FIGURE 29 - PDF417 LABEL USING AI ..... 36

FIGURE 30 - COMPACTPDF417 LABEL WITH PRODUCT NUMBER, REVISION AND USI, (DI 1P, 2P AND 25S) ..... 36

FIGURE 31 - DATA MATRIX LABEL WITH PRODUCT NUMBER, SERIAL NUMBER ..... 36

FIGURE 32 - HR CLEI CODE; NoMICROPDF417 OR HR USI (TABLE 2 PRIORITY 5 LABEL) ..... 37

FIGURE 34 - SCANNER READING DIAGRAM ..... 43

  

FIGURE A. 1 - 2D IMPLEMENTATION ROADMAP AND CAPABILITY REQUIREMENTS FOR MANUFACTURERS/SUPPLIERS AND SERVICE PROVIDERS ..... 48

  

FIGURE B. 1 - GTIN-14 ENCODED IN A GS1-128 BAR CODE SYMBOL ..... 52

FIGURE B. 2 - CLEI CODE BAR CODE EXAMPLE (CODE 39) ..... 52

FIGURE B.3 - CLEI CODE LABEL WITH THE ECI NUMBER ENCODED IN CODE 39 SYMBOLOGY (TABLE A.1, PRIORITY 3, 4 LABELS) ..... 56

FIGURE B.4 - HR CLEI CODE; MR ECI NUMBER ENCODED IN CODE 39 SYMBOLOGY ON A SEPARATE LABEL (TABLE A.1 PRIORITY 5 LABELS) ..... 56

FIGURE B.5 - UPC-A 12-DIGIT LABEL ..... 56

**ATIS-0300038**

FIGURE B.6 - CODE 128 LABEL WITH SERIAL NUMBER USING ATIS-0300220 [REF 3] MANUFACTURER ID WITH 14 CHARACTER SERIAL NUMBER IN CODE 128 SYMBOLOGY AND NO DI (TABLE A.1 PRIORITY 3 LABEL)..... 56

FIGURE B.7 - GS1-128 LABEL WITH SERIAL NUMBER USING ATIS-0300220 [REF 3] MANUFACTURER ID WITH 14 CHARACTER SERIAL NUMBER (AI=21) IN GS1-128 SYMBOLOGY ..... 57

FIGURE B.8 - LABEL WITH SERIAL NUMBER USING ATIS-0300220 [REF 3] MANUFACTURER ID WITH 8 DIGIT SERIAL NUMBER ..... 57

FIGURE B.9 - LABEL WITH USI USING GS1 COMPANY PREFIX WITH 11 CHARACTER SERIAL NUMBER (AI=8004) IN GS1-128 SYMBOLOGY ..... 57

FIGURE B.10 - CODE 39, MR ECI, HR CLEI CODE, CODE 128 MR/HR USI (TABLE A-1 PRIORITY 1 LABEL) ..... 57

FIGURE B.11 - CODE 39, HR CLEI CODE, MICROPDF417 AND MR USI; HR USI IN SEPARATE LABEL (TABLE A-1 PRIORITY 2 LABELS) ..... 58

  

FIGURE C.1 - TLC39 SYMBOL ..... 59

FIGURE C.2 - HEIGHT EXTENSION CALCULATION FOR LINK FLAG CHARACTER..... 62

FIGURE C.3 - TLC39 LABEL WITH CLEI CODE AND USI ..... 65

  

FIGURE E.1 - 90 DEGREE PEEL TEST APPARATUS..... 74

FIGURE E.2 - FLOW CHART ..... 75

FIGURE E.1 - 90 DEGREE PEEL TEST APPARATUS..... 80

FIGURE E.2 - FLOW CHART ..... 81

**Table of Tables**

---

TABLE 1 - LABEL DATA/SYMBOL IN SERVICE ELEMENT VISIBILITY PRIORITY .....9

TABLE 2 - LABEL DATA/SYMBOL IN SERVICE ELEMENT VISIBILITY PRIORITY – WITH CLEI CODE, GTIN AND UNIQUE SERIAL IDENTIFICATION (USI)..... 10

TABLE 3 - USI USING DI..... 18

TABLE 4 - USI USING AI ..... 20

TABLE 5 - PRODUCT IDENTIFICATION USING AI..... 21

TABLE 6 - PRODUCT IDENTIFICATION USING DI ..... 21

TABLE 7 - UID USING DI..... 23

TABLE 8 - COUNTRY OF ORIGIN USING AI..... 26

TABLE 9 - COUNTRY OF ORIGIN USING DI ..... 26

TABLE 10 - MICROPDF417 SIZES (WIDTH AND HEIGHT ARE IN INCHES)..... 28

TABLE 11 - DATA MATRIX ECC200 SIZES..... 31

  

TABLE A. 1 - LABEL DATA/SYMBOL IN SERVICE ELEMENT VISIBILITY PRIORITY - FOR PRODUCT SHIPPED PRIOR TO THE 2D IMPLEMENTATION DATE..... 47

  

TABLE B. 1 - AI FOR PRODUCT IDENTIFICATION (LINEAR BAR CODES) ..... 50

TABLE B. 2 - DATA IDENTIFIERS FOR PRODUCT IDENTIFICATION (LINEAR BAR CODES)..... 50

TABLE B.3 - AI FOR COUNTRY OF ORIGIN (LINEAR BAR CODES)..... 53

TABLE B.4 - OVERALL SYMBOL GRADING - NUMERIC AND ALPHABETICAL (ANSI) GRADING EQUIVALENCE ..... 55

  

TABLE C.1 - CONVERSION CHARACTERS FOR TLC 39..... 63

  

TABLE E.1 - IR REFLOW CONDITIONS & TEMPERATURES ..... 72

TABLE E.2 - WAVESOLDER CONDITIONS..... 73

TABLE E.1 - IR REFLOW CONDITIONS & TEMPERATURES ..... 78

TABLE E.2 - WAVESOLDER CONDITIONS..... 79

ATIS Standard on –

# Product Marking Implementation Guide

## 1 Introduction

The Automatic Identification and Data Capture Committee (AIDC) of ATIS has identified and recommended the following product identification coding structures found within this document and utilizing a unique serial identification structure (see ATIS-0300005, *Product Identification Coding Schemes* [Ref 11]) enhances recording and tracking inventory used within the telecommunications industry.

1. A globally unique product identifier shall include the manufacturers'/suppliers' identification, a product code, and a serial number. When/where a CLEI Code is available, the CLEI Code is to be used in lieu of or in conjunction with the manufacturer's product code.
2. The CLEI™ Code registry, administered by iconectiv, 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, *Structure for the Identification of Equipment Entities for Information Exchange* [Ref 2], providing a standard format for coding equipment entities found necessary for information exchange.
3. 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 (UPC). The GS1 numbering system encompasses both the former EAN International Numbering System and the UPC identifier within a 14-digit GTIN code. The definition, use and implementation of the GS1 System are covered in the GS1 General Specifications [Ref 15]. 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 UPC 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).

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. ATIS-0300091, *Serialization Standard for Telecommunications Network Infrastructure Equipment* [Ref 1], describes the recommended structure for Unique Serial Identification of telecommunications products. The ATIS-0300078, *Product Serialization Guideline* [Ref 12], guideline describes implementation of Unique Serial Identification (USI) per ATIS-0300091 [Ref 1], including migration from legacy forms of serialization. ISO/IEC 15459-4, *Information technology – Automatic identification and data capture techniques – Unique identification – Part 4: Individual products and product packages* [Ref 31] refers to the USI 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. This document also contains a historical roadmap