
**Information technology — Automatic
identification and data capture
techniques — Data Carrier Identifiers
(including Symbology Identifiers)**

*Technologies de l'information — Techniques automatiques
d'identification et de capture des données — Identifiants de porteuses
de données (y compris les identifiants de symbologie)*

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Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms, definitions, and abbreviated terms	1
3.1 Terms and definitions.....	1
3.2 Abbreviated terms	2
4 Requirements	2
4.1 Applicability.....	2
4.2 Structure	2
4.3 Code characters	3
4.4 Modifier characters.....	3
4.4.1 Code 39	4
4.4.2 Telepen	4
4.4.3 Code 128	4
4.4.4 Channel Code	5
4.4.5 Code One	5
4.4.6 Data Matrix.....	5
4.4.7 EAN/UPC	6
4.4.8 RSS (Reduced Space Symbology) and EAN.UCC Composite	6
4.4.9 Codabar	6
4.4.10 Code 93 and 93i.....	7
4.4.11 Code 11	8
4.4.12 Interleaved 2 of 5.....	8
4.4.13 Code 16K	8
4.4.14 PDF417 and MicroPDF417	8
4.4.15 MSI.....	9
4.4.16 Anker Code	9
4.4.17 Codablock.....	9
4.4.18 OCR (Optical Character Recognition).....	9
4.4.19 Plessey Code.....	9
4.4.20 PosiCode	10
4.4.21 QR Code.....	10
4.4.22 Straight 2 of 5 (with two bar start/stop codes)	10
4.4.23 Straight 2 of 5 (with three bar start/stop codes)	10
4.4.24 SuperCode.....	11
4.4.25 Code 49	11
4.4.26 MaxiCode	11
4.4.27 Other bar code	11
4.4.28 Non-bar code	12
4.4.29 Aztec Code	12
Annex A (normative) Maintenance	13
Annex B (normative) Symbology emulation.....	14
Annex C (informative) Reference documents.....	16

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 15424 was prepared by Joint Technical Committee ISO/IEC JTC1, *Information technology*, Subcommittee SC 31, *Automatic identification and data capture techniques*.

This second edition cancels and replaces the first edition (ISO/IEC 15424:2000), which has been technically revised.

Introduction

The need exists to identify the data carrier a reader detects in autodiscrimination environments. The Symbology Identifier concept provides a standardized way for a device receiving data from a reader to differentiate between the data carriers. This International Standard deals mostly with bar code symbologies; the terms Symbology Identifier, symbology, and bar code are therefore used throughout this International Standard although they are intended to apply to other data carriers as well.

This identification is achieved by the addition of an optional feature to readers enabling the reader to prefix a standard string of characters to data messages. This preamble contains information about the decoded symbol (or other data carrier) and any processing the reader has done. The information is not encoded or otherwise explicitly or implicitly represented in the symbol, except that the presence of some optional features may be detected by the reading equipment, whereas others require the reader to be expressly configured to implement them.

This International Standard is intended to be read in conjunction with the relevant symbology specifications.

Information technology — Automatic identification and data capture techniques — Data Carrier Identifiers (including Symbology Identifiers)

1 Scope

This International Standard applies to automatic identification device communication conventions and standardizes the reporting of data carriers from bar code readers and other automatic identification equipment. It specifies a preamble message generated by the reader and interpretable by the receiving system, which indicates the bar code symbology or other origin of transmitted data, together with details of certain specified optional processing features associated with the data message.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 646:1991, *Information technology — ISO 7-bit coded character set for information interchange*

ISO/IEC 19762 (all parts), *Information technology — Automatic identification and data capture (AIDC) techniques — Harmonized vocabulary*

AIM Inc. International Technical Specification: *Extended Channel Interpretations — Part 1: Identification Schemes and Protocols*

AIM Inc. International Technical Specification: *Extended Channel Interpretations — Part 2: Registration Procedure for Coded Character Sets and Other Data Formats*

AIM Inc. International Technical Specification: *Extended Channel Interpretations — Character Set Register*