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Information technology — Automatic identification and data capture techniques — Plain text syntax for Data Identifiers (DI)

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Foreword

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, Information technology, Subcommittee SC 31, Automatic identification and data capture techniques.

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Introduction

This document provides a syntax for ISO/IEC 15418 Data Identifier qualified data. This syntax uses only printable characters which allows data to be transferred unchanged via keyboard interfaces or other methods that disallow non-printable characters. This solution supports the widespread shift of bar code scanners adopting USB keyboard interfaces. It both simplifies and secures data transfer from scanners to entry fields presented by applications.

This syntax is distinguished from other data structures by the system identifier character "dot", which leads the data structure.

The separator character "circumflex" is used if multiple qualified data fields are contained in the message.

Known applications of this syntax are the ODETTE VIN Label in the automotive industry, MA-Code and IFA-Code for the medical device industry and in other company internal applications.

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Information technology — Automatic identification and data capture techniques — Plain text syntax for Data Identifiers (DI)

1 Scope

This document defines a syntax for ISO/IEC 15418 Data Identifier qualified values for the use in AIDC media.

The syntax uses the system identifier “dot” to distinguish from other data structures and the “circumflex” as the separator between data elements.

Only printable characters are used in this syntax.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 15418, *Information technology — Automatic identification and data capture techniques — GS1 Application Identifiers and ASC MH10 Data Identifiers and maintenance*

ISO/IEC 19762, *Information technology — Automatic identification and data capture (AIDC) techniques — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 19762 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
System identifier, noun
character sequence preceding and identifying a defined syntax within an AIDC message

Note 1 to entry: this term is defined in ANSI MH10.8.2 in chapter 7.2, which also contains a list of defined system identifiers in Annex D.

Note 2 to entry: in a historical version of ANSI MH10.8.2, a system identifier was called "flag character".

Note 3 to entry: in ISO/IEC 15434, the system identifier is called the message header, which is composed of the conformance indicator and the format trailer character.

EXAMPLE The system identifier "[)>$^{R}_{S}$" precedes any AIDC message defined by ISO/IEC 15434.

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