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Information technology — Registered escape sequences and coded character sets

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Information technology – Registered escape sequences and coded character sets

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 2, *Coded character sets*.

This first edition cancels and replaces ISO/IEC 2375:2003, which has been technically revised.

The main changes are as follows:

— removal of the registration procedure specification due to the cancellation of the Registration Authority;

— inclusion of the registered data published by the former Registration Authority.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html and www.iec.ch/national-committees.

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Introduction

ISO/IEC 2022 uses the escape sequence to control the code extension procedures. The International Register defined by ISO/IEC 2375 (previous edition of this document) provided the escape sequences and character sets.

Since no new escape sequences have been registered since 2004, and no new organization was found to take over the registration authority as of 2020, ISO/IEC JTC1 / SC2 decided to replace ISO/IEC 2375 with ISO/IEC TR 2375 (this document), which contains the data provided by the former registration authority, to ensure interoperability with archival digital data encoded by ISO/IEC 2022. This document and electronic attachments replace the International Register.

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Information technology – Registered escape sequences and coded character sets

1 Scope

This document provides the escape sequences and coded character sets that were registered and published by the former registration authority in ISO/IEC 2375 (the previous edition of this document).

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology 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
bit combination
ordered set of bits used for the representation of characters

3.2
byte
bit string that is operated upon as a unit

3.3
catalogue
list of the registrations and supplementary data, with reference to their locations

3.4
character
member of a set of elements used for the organization, control, or representation of data

3.5
coded character set
set of unambiguous rules that establishes a character set and the relationship between the characters of the set and their coded representation

3.6
code position
part of a code table identified by its column and row coordinates

3.7
code table
table showing the characters allocated to each bit combination in a code

3.8
combining character
member of an identified subset of the coded character set intended for combination either

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a) with the preceding non-combining graphic character, or with a sequence of combining characters preceded by a non-combining character (as presented in ISO/IEC 10646), or

b) with the following non-combining graphic character, or with a sequence of combining characters followed by a non-combining character (as presented in ISO/IEC 6937)

3.9
combining sequence
sequence of graphic characters consisting of either

a) a non-combining character followed by one or more combining characters (as presented in ISO/IEC 10646), or

b) a non-combining character preceded by one or more combining characters (as presented in ISO/IEC 6937)

3.10
control function
action that affects the recording, processing, transmission, or interpretation of data, and that has a coded representation consisting of one or more bit-combinations

3.11
escape sequence
string of bit combinations that is used for control purposes in code extension procedures

Note 1 to entry: The first of these bit combinations represents the control function ESCAPE.

3.12
ESC F_s sequence
escape sequence with the second bit combination in the range 6/0 to 7/14

Note 1 to entry: ESC Fs sequences are used for the standardized single control functions.

3.13
former registration authority
organization designated by ISO that ensured the maintenance of the registry of the escape sequence, character set, and the mapping tables defined by ISO/IEC 2375:2003 (the previous edition of this document)

3.14
graphic character
character, other than a control function, that has a visual representation normally handwritten, printed, or displayed, and that has a coded representation consisting of one or more bit-combinations

3.15
International Register
register of the coded character sets and the escape sequences in ISO/IEC 2022

Note 1 to entry: In this document, this International Register means the archive of the former International Register (from ISO/IEC 2375, now withdrawn and for which the registration mechanism is no longer available), which is now provided in electronic attachment in this document.

3.16
octet
ordered sequence of eight bits considered as a unit

3.17
repertoire
specified set of characters that are each represented by one or more bit-combinations of a coded character set

Note 1 to entry: A registration does not specify the repertoire of the sequences obtained by combining the characters (see A.3).

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3.18
standard return
escape sequence to switch the coding system to the ISO/IEC 646 character set under the ISO/IEC 2022 coding system, i.e. "ESC 2/5 4/0"

Note 1 to entry: Standard return fits the DESIGNATE OTHER CODING SYSTEM specified in ISO/IEC 2022:1994, 15.4.

4 International Register

4.1 Purpose of the International Register

The International Register provides the catalogue of the registered character set standards with their registration numbers, the names of the character set standards, and their final bytes (for the definition of final bytes, see ISO/IEC 2022:1994, 4.14). The catalogue includes hyperlinks to the electronic document for each registration, which is preserved in the International Register.

Registration of the graphic character sets and the control character sets consists of three parts: a cover page, a code table, and a list of character names. Registration of the coding systems not in conformance with ISO/IEC 2022 has a cover page, and a description text of the coding system, but can lack both a code table and a list of character names.

4.2 Location of the International Register

The International Register can be found at

https://standards.iso.org/iso-iec/tr/2375/ed-1/en

4.3 Machine readability

The electronic data in the International Register were primarily produced for printing, while some data were based on scanned images which were image data and not machine-readable text. In the case that registration has the mapping table to ISO/IEC 10646, it is in machine-readable format (see an example in Annex E).

4.4 Catalogue

4.4.1 Structure of the catalogue

The catalogue classifies the registered character set standards into nine types under three main categories. The top category is determined by the types of the character defined by ISO/IEC 2022 the graphic character (see ISO/IEC 2022:1994, 4.15), the control character (see ISO/IEC 2022:1994, 4.9), and the coding systems not in conformance with ISO/IEC 2022 (see B.1).

a) Graphic character sets

ISO/IEC 2022 specifies three types of coded graphic character sets (see ISO/IEC 2022:1994, 6.3.1):

— "94-character set";

— "96-character set";

— "multiple-byte set".

The International Register has two subtypes under "94-character graphic character set", which are distinguished by the length of their intermediate bytes (see ISO/IEC 2022:1994, 4.14):

— "94-character graphic character sets" with one intermediate byte;

— "94-character graphic character sets" with two intermediate bytes.

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