Foreword

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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 and IEC shall not be held responsible for identifying any or all such patent rights.

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This second edition cancels and replaces the first edition (ISO/IEC 18041-4:2005), of which it constitutes a minor revision.

ISO/IEC 18041 consists of the following parts, under the general title Information technology — Computer graphics, image processing and environmental data representation — Environmental Data Coding Specification (EDCS) language bindings:

Part 4: C

EDCS language bindings — Part 4: C

Introduction

The Environmental Data Coding Specification (EDCS) is a mapping between data and meaning. Data in a system may need to be identified as to purpose, metric, and usage. This specification defines a standard set of terms for providing this information.

Access to the codes defined by this specification is through an application programming interface (API). The abstract specification of this API is defined in ISO/IEC 18025. Each part of ISO/IEC 18041 defines the binding of that abstract specification to a particular programming language. The purpose of this part of ISO/IEC 18041 is to define a standard binding for the C computer programming language.

1 Scope

This part of ISO/IEC 18041 specifies the binding of the application programming interface (API) defined in ISO/IEC 18025, *Information technology — Environmental Data Coding Specification (EDCS)* to the C programming language.

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.

Identifier Reference

I9899  ISO/IEC 9899:1999, Programming languages — C

I10641  ISO/IEC 10641:1993, Information technology — Computer graphics and image processing — Conformance testing of implementations of graphics standards


I18025  ISO/IEC 18025, Information technology — Environmental Data Coding Specification (EDCS)

I18026  ISO/IEC 18026, Information technology — Spatial Reference Model (SRM)