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INTERNATIONAL STANDARD

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Withdrawn

Information technology — Font information interchange —

Part 2: Interchange format

Technologies de l'information — Échange d'informations sur les fontes —

Partie 2: Format d'échange

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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.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. 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.

International Standard ISO/IEC 9541-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

ISO/IEC 9541 consists of the following parts, under the general title *Information technology — Font information interchange*:

— *Part 1: Architecture*

— *Part 2: Interchange Format*

— *Part 3: Glyph shape representation*

— *Part 4: Application-specific requirements*

Part 1 of ISO/IEC 9541 specifies the architecture of a font resource, i.e., the font description, font metrics, glyph description and glyph metrics properties required for font references and the interchange of font resources.

Part 2 of ISO/IEC 9541 specifies the interchange formats for font information, and the minimum subsets of that information required for interchange.

Part 3 of ISO/IEC 9541 specifies the architecture and interchange formats for glyph shape representations.

Part 4 of ISO/IEC 9541 specifies the architecture and interchange format extensions for application specific (e.g. typesetting of mathematics) requirements.

Annexes A and B form an integral part of this part of ISO/IEC 9541.

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Introduction

The use of open networks for the interchange of documents in both office and publishing environments has shown the need for a mechanism enabling the interchange of font information.

It is foreseen that publishing and office technologies will merge and that this development will be facilitated by definition of a standard font resource architecture and a limited number of standard font resource interchange formats.

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Information technology — Font information interchange —

Part 2:
Interchange format

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1 Scope

ISO/IEC 9541, as a whole, specifies the architecture of font resources, as well as the formats for font interchange amongst information processing systems. It also specifies the architecture and formats that can be used to construct font references in general electronic document interchange.

This part of ISO/IEC 9541 specifies the interchange formats for font information, and the minimum subsets of that information required for interchange. This part of ISO/IEC 9541 requires the property definitions as defined in ISO/IEC 9541-1.

Font subsets defined by this part of ISO/IEC 9541 establish the minimum set of font properties that must occur within an ISO font resource. To accommodate the broad range of document and text processing functions found in office and publishing environments, it is anticipated that ISO font resources will contain more than the minimum number of font properties.

Font resources defined by this part of ISO/IEC 9541 are used in various document processing environments in which ASN.1 or SGML parsing algorithms are recognised. The format of font resource information as defined in this part of ISO/IEC 9541 is specified in both ASN.1 and SGML for consistent generation of font resources for use in these processing environments.

2 Conformance

A font resource conforming to this part of ISO/IEC 9541 shall contain property values for all of the minimum subset font properties specified in this part of ISO/IEC 9541, clause 5. A conforming font resource may contain more ISO or non-ISO properties than specified in this part of ISO/IEC 9541, clause 5. In addition, all properties contained in a conforming font resource shall be formatted as defined in one of the two interchange formats defined in this part of ISO/IEC 9541, clause 6.

A font resource using system (one which receives font information for subsequent processing) may claim conformance to this part of ISO/IEC 9541 if it has the ability to syntactically interpret and semantically process the relevant font subset(s) specified in this part of ISO/IEC 9541, clause 5.

A font resource supplying system (one which creates or modifies font information for subsequent supply to a font resource using system) may claim conformance to this part of ISO/IEC 9541 if it has the ability to create a syntactically correct instance of a conforming font resource.

A font resource transmission system (one which receives, optionally holds, and subsequently transmits font information) may claim conformance to this part of ISO/IEC 9541 if it has the ability to receive and send a syntactically correct instance of a conforming font resource without loss of information.

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3 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 9541. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 9541 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 8824:1990, *Information technology — Open Systems Interconnection — Specification of Abstract Syntax Notation One (ASN.1).*

ISO 8825:1990, *Information technology — Open Systems Interconnection — Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1).*

ISO 8879:1986, *Information processing — Text and office systems — Standard Generalized Markup Language (SGML).*

ISO/IEC 9070:1991, *Information technology — SGML support facilities — Registration procedures for public text owner identifiers.*

ISO/IEC 9541-1:1991, *Information technology — Font information interchange — Part 1: Architecture.*

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