INTERNATIONAL STANDARD

ISO/IEC 8632-2

Second edition
1992-10-01

AMENDMENT 2
1995-08-01

Information technology — Computer graphics — Metafile for the storage and transfer of picture description information —

Part 2: Character encoding

AMENDMENT 2: Application structuring extensions

Technologies de l'information — Infographie — Métafichier de stockage et de transfert des informations de description d'images —

Partie 2: Codage des caractères

AMENDEMENT 2: Extensions de structure d'application

Reference number
ISO/IEC 8632-2:1992/Amd.2:1995(E)

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.

Amendment 2 to International Standard ISO/IEC 8632-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 24 , *Computer graphics and image processing*.

Information technology - Computer graphics - Metafile for the storage and transfer of picture description information

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Pages ii-vi

Add the following to the Contents:

"8.1.18 BEGIN APPLICATION STRUCTURE
8.1.19 BEGIN APPLICATION STRUCTURE BODY
8.1.20 END APPLICATION STRUCTURE"
"8.2.24 PICTURE DIRECTORY"
"8.3.20 APPLICATION STRUCTURE DIRECTORY"
"8.10 Application structure descriptor elements
8.10.1 APPLICATION STRUCTURE ATTRIBUTE"

5 Method of encoding opcodes

5.3 Opcode assignments

Add to the list of opcode assignments for the various element classes, page 9:

" 3/9 for Application Structure Descriptor Elements"

Add to Table 1 - Opcodes for metafile elements, pages 10-13:

"Opcode	7-Bit coding	8-Bit coding
BEGIN APPLICATION STRUCTURE	3/0 3/4	03/0 03/4
BEGIN APPLICATION STRUCTURE BODY	3/0 3/5	03/0 03/5
END APPLICATION STRUCTURE	3/0 3/6	03/0 03/6
PICTURE DIRECTORY	3/1 3/8	03/1 03/8
APPLICATION STRUCTURE DIRECTORY	3/2 3/3	03/2 03/3
APPLICATION STRUCTURE ATTRIBUTE	3/9 2/0	03/9 02/0"

8 Representation of each element

8.1 Delimiter elements

Add new Subclauses 8.18, 8.19, and 8.20, page 37:

"**8.1.18 BEGIN APPLICATION STRUCTURE**

<BEGIN-APPLICATION-STRUCTURE-opcode: 3/0 3/4>
<string-fixed: application-structure-identifier>

<string-fixed: application-structure-type>

<enumerated-integer:inheritance-flag> = <integer: 0> {STATE LIST}
| <integer: 1> {APPLICATION STRUCTURE}

8.1.19 BEGIN APPLICATION STRUCTURE BODY

<BEGIN-APPLICATION-STRUCTURE-BODY-opcode: 3/0 3/5>

8.1.20 END APPLICATION STRUCTURE

<END-APPLICATION-STRUCTURE-opcode: 3/0 3/6> "

8.2 Metafile descriptor elements

Subclause 8.2.1, page 38:

Change the production of <integer: version> to read:

"<integer: version> = <integer: 1> {Version 1}
| <integer: 2> {Version 2}
| <integer: 3> {Version 3}
| <integer: 4> {Version 4}"

Subclause 8.2.11, page 40 and the top of page 41:

Change the production of <enumerated: element set> to read:

"<enumerated: element set> = <integer: 0> {DRAWING SET}
| <integer: 1> {DRAWING PLUS CONTROL SET}
| <integer: 2> {VERSION 2 SET}
| <integer: 3> {EXTENDED PRIMITIVES SET}
| <integer: 4> {VERSION 2 GKSM SET}
| <integer: 5> {VERSION 3 SET}
| <integer: 6> {VERSION 4 SET}"

Add new Subclause 8.2.24, page 47:

"8.2.24 PICTURE DIRECTORY

<PICTURE-DIRECTORY-opcode: 3/1 3/8>
<enumerated: location-data-type-selector>
<directory-entry-3-tuple>+

<directory-entry-3-tuple>=
<string-fixed: picture-identifier>
<[ldt]: picture-location>
<[ldt]: application-structure-directory-location>

<enumerated: location-data-type-selector> = <integer: 0> {UI8}
| <integer: 1> {UI16}
| <integer: 2> {UI32}

Note: [ldt] designates UI8, UI16, UI32 as selected by location-data-type-selector parameter. The values of picture-location are the offsets in octets from the beginning of the metafile to the start of the associated BEGIN PICTURE element. The values of application-structure-directory-location are the offsets in octets from the start of the metafile to the start of the APPLICATION STRUCTURE DIRECTORY element of the associated picture."

8.3 Picture descriptor elements

Add new Subclause 8.3.20, page 53:

"**8.3.20 APPLICATION STRUCTURE DIRECTORY**

<APPLICATION-STRUCTURE-DIRECTORY-opcode: 3/2 3/3>
<enumerated: location-data-type-selector>
<directory-entry-pair>+

<directory-entry-pair>=
<string-fixed: application-structure-identifier>
<[ldt]: application-structure-location>

<enumerated: location-data-type-selector> = <integer: 0> {UI8}
| <integer: 1> {UI16}
| <integer: 2> {UI32}

NOTE - [ldt] designates UI8, UI16, UI32 as selected by location-data-type-selector parameter. The values of application-structure-location are the offsets in octets from the beginning of the BEGIN PICTURE element to the start of the associated BEGIN APPLICATION STRUCTURE element."

Add new Subclause 8.10 Application structure descriptor elements after Subclause 8.9.7 on page 83:

"**8.10 Application structure descriptor elements**

8.10.1 APPLICATION STRUCTURE ATTRIBUTE

<APPLICATION-STRUCTURE-ATTRIBUTE-opcode: 3/9 2/0>
<string-fixed:application-structure-attribute-type>
<structured-data-record:data-record>"