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STANDARD

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AMENDMENT 2  
1995-08-01

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

**Part 4:**  
Clear text encoding

**AMENDMENT 2: Application structuring extensions**

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

*Partie 4: Codage en clair des textes*

*AMENDEMENT 2: Extensions de structure d'application*



Reference number  
ISO/IEC 8632-4:1992/Amd.2:1995(E)

## Foreword

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Amendment 2 to International Standard ISO/IEC 8632-4 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 24, *Computer graphics and image processing*.

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

**Part 4:  
Clear text encoding**

**AMENDMENT 2: Application structuring extensions**

*Pages ii-iii*

*Add the following to Contents:*

6.10 Encoding application structure descriptor elements

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Withdrawn

#### 5.4.4 Abbreviations

Add the following abbreviations to Subclause 5.4.4, pages 13-14:

After "APPLICATION" add:

"APPLICATION STRUCTURE                      APS"

After "DEVICE" add:

"DIRECTORY                                      DIR"

#### 5.4.5 The derived element names

Add the following to Subclause 5.4.5, pages 14-18:

After "END TILE ARRAY" add:

"BEGIN APPLICATION STRUCTURE              BEGAPS  
BEGIN APPLICATION STRUCTURE BODY        BEGAPSBODY  
END APPLICATION STRUCTURE                 ENDAPS"

After "SYMBOL LIBRARY LIST" add:

"PICTURE DIRECTORY                         PICDIR"

After "GEOMETRIC PATTERN DEFINITION" add:

"APPLICATION STRUCTURE DIRECTORY        APSDIR"

After "SEGMENT PICK PRIORITY" add:

"APPLICATION STRUCTURE ATTRIBUTE        APSATTR"

#### 6.1 Encoding delimiter elements

Add the following encodings at the end of list, page 20:

"BEGIN APPLICATION STRUCTURE	::= BEGAPS <SOFTSEP> <SF:APSID> <SEP> <SF:APSTYPE> <SEP> <STLIST!APS> <TERM>
BEGIN APPLICATION STRUCTURE BODY	::= BEGAPSBODY<TERM>
END APPLICATION STRUCTURE	::= ENDAPS<TERM>"

## 6.2 Encoding metafile descriptor elements

Change the production of *METAFILE VERSION*, page 20, to read:

```
"METAFILE VERSION          ::= MFVERSION
                             <SOFTSEP>
                             <I:VERSION>
                             { 1=Version 1, 2=Version 2,
                               3=Version 3, 4=Version 4 }
                             <TERM>"
```

Change the 2nd sentence of the paragraph following the production of *METAFILE ELEMENT LIST*, page 23, to read:

"In addition, the words *DRAWINGPLUS*, *DRAWINGSET*, *VERSION2*, *EXTPRIM*, *VERSION2GKSM*, *VERSION3*, and *VERSION4* may be used in this string."

Add the following encodings and notes at the end of the list, page 27:

```
"PICTURE DIRECTORY        ::= PICDIR
                             <SOFTSEP>
                             <UI8 | UI16 | UI32>
                             <<SEP><PICDIRTRIPLE>>+
                             <TERM>
```

```
PICDIRTRIPLE             ::= <SF:PICID>
                             <SEP>
                             <I:PICLOCATION>
                             <SEP>
                             <I:APSDIRLOCATION>
```

### NOTES

7 The first (enumerated) parameter selects the location data type ([ldt]) for the subsequent *PICLOCATION* and *APSDIRLOCATION* parameters. These are integer-bound parameters, and the [ldt] selects one of three unsigned integer precisions. The values of *PICLOCATION* are the offsets measured in characters from the first character of the metafile to the first character of the associated *BEGIN PICTURE* element. The values of *APSDIRLOCATION* are the offsets measured in characters from the start of the metafile to the first character of the *APPLICATION STRUCTURE DIRECTORY* element of the associated picture. For the purpose of measuring offsets, a character is a generic unit as defined in Subclause 4.1. For string parameters, a character represents a single byte, regardless of the ISO 2022 coding environment in effect for the string parameter (See 4.7.3.2 ISO/IEC 8632-1:1992).

8 Editing of clear-text encoded Version 4 metafiles may invalidate *PICLOCATION* and *APSDIRLOCATION* values. If so, these values must be recomputed. Also, translation of clear text metafiles between computing environments may invalidate *PICLOCATION* and *APSDIRLOCATION* values as different environments represent line endings differently."

## 6.3 Encoding picture descriptor elements

Add the following encodings at the end of list, page 31:

```
"APPLICATION STRUCTURE DIRECTORY ::= APSDIR
                             <SOFTSEP>
                             <UI8 | UI16 | UI32>
                             <<SEP><APSDIRPAIR>>+
```