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Australian STANDARD

Information technology—Computer graphics and image processing—Encoding for the Image Interchange Facility (IIF)

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- ANZLIC—The Spatial Information Council
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Australian Standard®

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PREFACE

This Standard was prepared by the Standards Australia Committee IT-031, Computer Modelling and Simulation.

The objective of this Standard is to define the encoding rules which shall apply to the representation of Image Processing and Information – Image Interchange Facility (IPI-IIF) image data. The IPI-IIF data format is defined in AS ISO/IEC 12087.3. IPI-IIF facilitates the interchange of digital images. It consists of two major parts:

(a) The IPI-IIF data format (IIF-DF) definition.

(b) The IPI-IIF gateway definition whose functionality is described by an application programmers interface.

This Standard is identical with, and has been reproduced from ISO/IEC 12089:1997, *Information technology—Computer graphics and image processing—Encoding for the Image Interchange Facility (IIF)*.

As this Standard is reproduced from an International Standard, the following applies:

(i) In the source text ‘this International Standard’ should read ‘this Australian Standard’.

(ii) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

Reference to International Standard		*Australian Standard*	
12087	Information technology—Computer graphics and image processing—Image Processing and Interchange (IPI)—Functional specification	12087	Information technology—Computer graphics and image processing—Image Processing and Interchange (IPI)—Functional specification
12087-1	Part 1: Common architecture for imaging	12087.1	Part 1: Common architecture for imaging
12087-2	Part 2: Programmer's imaging kernel system application programme interface	12087.2	Part 2: Programmer's imaging kernel system application programme interface
12087-3	Part 3: Image Interchange Facility (IIF)	12087.3	Part 3: Image Interchange Facility (IIF)

Only normative references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

AUSTRALIAN STANDARD

Information technology—Computer graphics and image processing—Encoding for the Image Interchange Facility (IIF)

1 Scope

This International Standard defines the encoding rules which shall apply to the representation of IPI-IIF image data. The IPI-IIF data format is defined in ISO/IEC 12087-3, called „Image Interchange Facility (IIF)". It is Part 3 of the Image Processing and Interchange International Standard, defined in ISO/IEC 12087. The IPI-IIF facilitates the interchange of digital images. It consists of two major parts:

(1) the IPI-IIF data format (IIF-DF) definition, whose syntax is described using ASN.1;

(2) the IPI-IIF gateway definition, whose functionality is described by an application programmers interface.

The IPI-IIF is based on the definition described in Part 1, *Common Architecture for Imaging* (CAI) of the ISO/IEC 12087.

Due to the fact that the syntax of the IIF-DF is expressed using the *Abstract Syntax Notation One* (ASN.1), defined by ISO/IEC 8824, this standard makes use of the *Basic Encoding Rules* (BER) for ASN.1, by referring to ISO/IEC 8825 for the definition of encoding rules.

NOTE - A rationale for the introduction of new encoding rules in addition to those defined by the BER is given in clause 4.

Reference shall be made to this International Standard, and its definitions shall be employed, whenever images are interchanged, according to the IIF-DF, defined in ISO/IEC 12087-3.

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