



**Document management—Engineering
document format using PDF**

Part 1: Use of PDF 1.6 (PDF/E-1)

STANDARDS
Australia

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This Australian Standard® was prepared by Committee IT-021, Records and Document Management Systems. It was approved on behalf of the Council of Standards Australia on 20 March 2017.

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PREFACE

This Standard was prepared by the Standards Australia Committee IT-021, Records and Document Management Systems.

The objective of this Standard is specify the use of the portable document format (PDF) Version 1.6 for electronic documents used in engineering workflows.

This Standard is identical with, and has been reproduced from ISO 24517-1:2008, *Document management—Engineering document format using PDF, Part 1: Use of PDF 1.6 (PDF/E-1)*.

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

- (a) In the source text ‘this part of ISO 24517’ should read ‘this Australian Standard’.
- (b) A full point substitutes for a comma when referring to a decimal marker.

None of the normative references in the source document have been adopted as Australian or Australian/New Zealand Standards.

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

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INTRODUCTION

The ISO 24517 series defines a file format for the exchange of engineering documents based on the PDF format for various communities working with engineering documentation. It is a multi-part standard with subsequent parts expected to address future workflow and data requirements. The ISO 24517 series improves document exchange, collaboration, and print accuracy within engineering workflows, both inside companies and with extended enterprises of partners, suppliers, customers, government organizations and citizens. It will enable organizations to streamline engineering workflows that incorporate diverse sets of complex documents, resulting in improved productivity and the ability to more quickly deliver better products to market. It defines the features of PDF that are required, recommended, restricted, or prohibited when creating, viewing, marking up, printing, analysing, and distributing engineering documents. It takes into consideration the differing needs of both interactive and non-interactive readers.

The ISO 24517 series specifies the proper use of PDF for on-screen display and printing of engineering documents. Printed engineering documents are assemblies of a page (or pages) created by different organizations which can be inter-departmental or inter-company. It also defines a framework for representing the logical structure and other semantic information of engineering documents within conforming files.

The ISO 24517 series is intended to provide a format for the development of business applications, such as products that read, render, write, print, and validate PDF conforming documents. Different products will incorporate various capabilities to prepare, interpret, and process conforming objects. Adobe Systems Incorporated makes the PDF specification publicly available. However, the inclusive, feature-rich nature of the format requires that additional constraints be placed on its use to make it suitable for engineering workflow documents.

PDF/E allows engineering professionals to reliably create, exchange, and review engineering documentation, including large format documents. PDF/E enables organizations to work more effectively when creating or exchanging engineering documentation.

AIIM, an accredited standards developing organization, maintains an ongoing series of application notes for guiding developers and users of this part of ISO 24517. These application notes are available at <http://www.aiim.org/>. AIIM will also retain copies of the specific non-ISO normative references of this part of ISO 24517 which are publicly available electronic documents.

AUSTRALIAN STANDARD

Document management—Engineering document format using PDF**Part 1:
Use of PDF 1.6 (PDF/E-1)****1 Scope**

This part of ISO 24517 specifies the use of the Portable Document Format (PDF) Version 1.6 for the creation of documents used in engineering workflows.

This part of ISO 24517 does not define the following:

- method of electronic distribution;
- method of creation or conversion from paper or electronic documents to the PDF format;
- specific technical design, user interface, or implementation;
- required computer hardware and/or operating systems; or
- methods for validating the conformance of PDF/E files or readers.

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.

ISO 19005-1:2005, *Document management — Electronic document file format for long-term preservation — Part 1: Use of PDF 1.4 (PDF/A-1)*

ICC.1:2004-10 (Profile version 4.2.0.0), *Image technology colour management — Architecture, profile format, and data structure*, International Color Consortium (available from www.color.org)

Adobe PDF Reference, fifth edition version 1.6, ISBN 0-321-30474-8 (available from <http://www.npes.org/standards/toolspdfx.html>)

Errata for Adobe PDF Reference, fifth edition version 1.6, 31 August 2005 (available from <http://www.npes.org/standards/toolspdfx.html>)

Addendum on Blend Modes, Adobe Systems Incorporated, January 23, 2006 (available from <http://www.npes.org/standards/toolspdfx.html>)

XMP Specification, XMP™: Adding Intelligence to Media, Adobe Systems Incorporated, September 2005 (available from <http://partners.adobe.com/public/developer/en/xmp/sdk/xmpspecification.pdf>)