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Document management — ECMAScript for PDF —

Part 1: Use of ISO 32000-2 (PDF 2.0)

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Contents

Page

Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 171, *Document management applications*, Subcommittee SC 2, *Document file formats, EDMS systems and authenticity of information*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document specifies a set of ECMAScript object types which define the properties and methods that can be used in ECMAScript scripts embedded in PDF documents to automate and interact with the containing PDF document and the PDF objects within such files.

The goal is to enable the implementation of ECMAScript processors within a broad range of PDF Processors to provide interoperable scripting and automation of PDF documents. This functionality includes the following features, among others:

— processing forms within the document;

— batch processing collections of PDF documents;

— developing and maintaining online collaboration schemes;

— communicating with local databases.

Certain properties and methods that may be discoverable through ECMAScript's introspection facilities are not documented here. Undocumented properties and methods should not be used.

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Part 1:
Use of ISO 32000-2 (PDF 2.0)

1 Scope

This document defines a set of ECMAScript object types for automating and interacting with PDF documents and the contents of such documents.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 32000-2, *Document management — Portable Document Format — Part 2: PDF 2.0*

ISO/IEC 22275:2018, *Information technology — Programming languages, their environments, and system software interfaces — ECMAScript® Specification Suite*

ISO/IEC 22537:2006, *Information technology — ECMAScript for XML (E4X) specification*

3 Terms and definitions

For the purposes of this document, the terms and definitions in ISO 32000-2 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
ECMAscript
means of reference to ISO 22275 and ISO 22537

3.2
SHA
Secure Hash Algorithms, means of reference to FIPS 180-4

4 Notation

ECMAScript objects and properties and other predefined names are written in bold font; values, as well as key terms of interest are written in italic font. Some names can also be used as values, depending on the context, and so the styling of the content will be context specific. Methods, functions, and variables are written in fixed-width font.

EXAMPLE 1 The allowed values for the **projectionType** property are *perspective* and *orthographic*.