

ISO/TS 32004:2024-04 (E)

Document management - Portable Document Format - Integrity protection in encrypted documents in PDF 2.0

Contents

Page

- Foreword iv
- Introduction v
- 1 Scope 1
- 2 Normative references 1
- 3 Terms and Definitions 2
- 4 Extension schema details 3
- 5 Proposed changes 3
 - 5.1 Encrypt dictionary 3
 - 5.1.1 Additions to ISO 32000-2:2020, 7.6.2 3
 - 5.1.2 Additions to ISO 32000-2:2020, 7.6.4.2 3
 - 5.1.3 Additions to ISO 32000-2:2020, 7.6.5.2 4
 - 5.2 File trailer 4
 - 5.2.1 Additions to ISO 32000-2:2020, 7.5.5 4
 - 5.2.2 Additions to ISO 32000-2:2020, 7.6.2 4
 - 5.2.3 AuthCode dictionary 4
- 6 Composing PDF MAC tokens 6
 - 6.1 General 6
 - 6.2 PdfMacIntegrityInfo data type 6
 - 6.3 CMS structure of a PDF MAC token 6
 - 6.3.1 General 6
 - 6.3.2 Encapsulated content info of a PDF MAC token 6
 - 6.3.3 Recipient info object, MAC key generation and key encryption 6
 - 6.3.4 Digest algorithm identification 7
 - 6.3.5 MAC algorithm identification 7
 - 6.3.6 Authenticated attributes 7
 - 6.3.7 Unauthenticated attributes 8
 - 6.4 Key derivation function 8
 - 6.5 Location of PDF MAC tokens 9
 - 6.5.1 Location of a PDF MAC token in an unsigned revision 9
 - 6.5.2 Location of a PDF MAC token in a signed revision 9
 - 6.6 Computing the digests in a PDF MAC token 9
 - 6.6.1 General 9
 - 6.6.2 PDF MAC digests in unsigned revisions 10
 - 6.6.3 PDF MAC digests in signed revisions 10
- Annex A (informative) ASN.1 module for PDF MAC 11
- Annex B (informative) Validation of document integrity using PDF MAC 12
- Annex C (informative) Examples 14
- Bibliography 16