

Package: pdfsigner (via r-universe)

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Title Digitally Sign and Verify PDF Documents

Type Package

Version 0.2.3

Description Digitally sign PDF documents with a 'PKCS#12' keystore and verify their signatures. Signing produces a detached 'PKCS#7' / 'CMS' signature ('adbe.pkcs7.detached') over the document and is applied as an incremental update, so existing signatures remain valid. The cryptography and PDF manipulation are performed by a bundled, pure-'Rust' backend (the 'pdf_signer' crate); no Java runtime, 'OpenSSL', or external command-line tools are required. Visible signature appearances with custom text are supported.

Depends R (>= 4.2)

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

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Encoding UTF-8

URL <https://github.com/StrategicProjects/pdfsigner>

BugReports <https://github.com/StrategicProjects/pdfsigner/issues>

SystemRequirements Cargo (Rust's package manager), rustc

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sign_pdf	<i>Digitally sign a PDF document</i>
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Description

Signs pdf_file using an RSA key + certificate stored in a PKCS#12 (.p12/.pfx) keystore, writing the signed document to output_file. The signature is a detached adbe.pkcs7.detached CMS over the whole document and is added as an incremental update, so any pre-existing signatures stay valid.

Usage

```
sign_pdf(
  pdf_file,
  output_file,
  keystore_path = Sys.getenv("KEYSTORE_PATH"),
  keystore_password = Sys.getenv("KEY_PASSWORD"),
  signtext = NULL,
  validate_link = NULL,
  reason = NULL,
  signer_name = NULL,
  page = 1,
  x = 36,
  y = 36,
  width = 320,
  height = 64,
  font_size = 8,
  font = NULL,
  image = NULL,
  border = TRUE,
  translate = FALSE,
  tsa_url = NULL,
```

```
    pades_level = c("bb", "bt", "blt", "blta")
)
```

Arguments

pdf_file	Path to the input PDF.
output_file	Path where the signed PDF is written.
keystore_path	Path to the .p12/.pfx keystore. Defaults to the KEYSTORE_PATH environment variable.
keystore_password	Password for the keystore. Defaults to the KEY_PASSWORD environment variable.
signtext	Optional text for a <i>visible</i> signature box. When NULL or empty the signature is invisible.
validate_link	Optional validation URL appended to the visible box.
reason, signer_name	Optional /Reason and /Name for the signature dictionary.
page	1-based page number for the visible box.
x, y, width, height	Visible box geometry, in PDF points (origin at the page's bottom-left).
font_size	Font size for the visible box, in points.
font	Optional path to a TrueType/OpenType font file (.ttf/.otf) to embed in the visible box. When NULL, the standard Helvetica is used. Only the WinAnsi (Latin-1) glyph range is embedded. Ignored for invisible signatures.
image	Optional path to a PNG or JPEG logo drawn in the visible box. Ignored for invisible signatures.
border	Draw a border around the visible box.
translate	If TRUE, the date label in the visible box is in Portuguese; otherwise English.
tsa_url	Optional RFC 3161 Time-Stamping Authority http:// URL. Required for pades_level "bt" and above. Requires network access.
pades_level	PAdES conformance level: "bb" (baseline, default), "bt" (+ signature timestamp), "blt" (+ DSS with certificates and CRLs), or "blta" (+ a document timestamp over the whole file). Levels "bt" and above need tsa_url.

Value

Invisibly, the path to the signed PDF. Raises an error on failure.

Examples

```
## Not run:
sign_pdf(
  pdf_file = "input.pdf",
  output_file = "signed.pdf",
  keystore_path = "keystore.p12",
  keystore_password = "password",
  signtext = "Document digitally signed by CastLab",
```

```
validate_link = "https://castlab.org/validate",
translate = TRUE
)

## End(Not run)
```

verify_pdf_signature *Verify the digital signatures of a PDF*

Description

Cryptographically verifies every signature in pdf_file using the bundled Rust backend. Each signature is checked by re-deriving its signed byte range, confirming the messageDigest against SHA-256 of the content and validating the signer's RSA signature over the signed attributes.

Usage

```
verify_pdf_signature(pdf_file, roots = NULL)
```

Arguments

pdf_file	Path to the PDF to verify.
roots	Optional path to a PEM file of trusted root certificates (e.g. the ICP-Brasil AC Raiz set). When supplied, each signer certificate chain is validated against these roots and reported in chain_trusted.

Value

A list with one entry per signature. Each entry is a named list with valid (logical), signer (subject DN), chain_trusted (logical or NA when no roots given), covers_whole_document (logical), signed_len (bytes), byte_range (numeric length-4) and detail. A length-zero list means no signatures were found.

Examples

```
## Not run:
result <- verify_pdf_signature("signed.pdf", roots = "icp-brasil-roots.pem")
vapply(result, function(s) s$valid, logical(1))

## End(Not run)
```

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