

***PL/PDF***

**PL/PDF Toolkit**

User's Guide

v2.0.0

# ***PL/PDF***

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# ***PL/PDF***

## **Introduction**

PL/PDF Toolkit is a java library with PL/SQL interface for manipulating existing PDF documents.

## Certification

### GetCertKey

Type: Function

Description: Generates preliminary certification key. This function should be run once when the PL/PDF package is installed. The function generates a string that should be sent to <mailto:info@plpdf.com>. Our representatives will send a certificate key back that should be used as the return value in the `pl_pdf_cert.SetCertKey` function. Parameters: -

Return: varchar2: Preliminary certificate key

## Types And Constants

### **t14font**

Type: Subtype, VARHCAR2(30 CHAR)

Description: Standard Type 1 Fonts

The PostScript names of 14 Type 1 fonts, known as the standard fonts. These fonts, or their font metrics and suitable substitution fonts, are required to be available to the viewer application.

### **t\_color**

Type: Record

Description: Represents the RGB color triplet.

Fields:

- r number: Value of the red component
- g number: Value of the green component
- b number: Value of the blue component

### **times-roman**

Type: Constant

Value: t\_14font: Times-Roman

### **times\_bold**

Type: Constant

Value: t\_14font: Times-Bold

### **times\_italic**

Type: Constant

Value: t\_14font: Times-Italic

### **times\_bold\_italic**

Type: Constant

Value: t\_14font: Times-BoldItalic

### **helvetica**

Type: Constant

Value: t\_14font: Helvetica

### **helvetica\_bold**

Type: Constant

Value: t\_14font: Helvetica-Bold

## **helvetica\_oblique**

Type: Constant

Value: t\_14font: Helvetica-Oblique

## **helvetica\_bold\_oblique**

Type: Constant

Value: t\_14font: Helvetica-BoldOblique

## **courier**

Type: Constant

Value: t\_14font: Courier

## **courier\_bold**

Type: Constant

Value: t\_14font: Courier-Bold

## **courier\_oblique**

Type: Constant

Value: t\_14font: Courier-Oblique

## **courier\_bold\_oblique**

Type: Constant

Value: t\_14font: Courier-BoldOblique

## **symbol**

Type: Constant

Value: t\_14font: Symbol

## **zapf\_dingbats**

Type: Constant

Value: t\_14font: ZapfDingbats

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## Metadata

Type: Record

Description: A PDF document may include general information such as the document's title, author, and creation and modification dates. Such global information about the document itself (as opposed to its content or structure) is called metadata, and is intended to assist in cataloguing and searching for documents in external databases.

Fields:

- Title: The document's title
- Author: The name of the person who created the document
- Subject: The subject of the document
- Creator: If the document was converted to PDF from another format, the name of the application (for example, Adobe FrameMaker®) that created the original document from which it was converted.
- Keywords: Keywords associated with the document
- Producer: If the document was converted to PDF from another format, the name of the application (for example, Acrobat Distiller) that converted it to PDF.
- CreationDate: The date and time the document was created, in human-readable form
- ModDate: The date and time the document was most recently modified, in human-readable form

## Merge input

Type: Record

Description: PDF document with some properties.

Fields:

- inputfile: Source PDF file
- password: The owner password of the PDF file (if encrypted).
- overwrite\_rect\_x: Overwrite rectangle x coordinate
- overwrite\_rect\_y: Overwrite rectangle y coordinate
- overwrite\_rect\_w: Overwrite rectangle width
- overwrite\_rect\_h: Overwrite rectangle height
- overwrite\_rect\_color: Overwrite rectangle fill color

## Merge inputs

Type: Table

Description: Table of Merge input records.

Fields:

- Input record: PDF document with some properties



## Functions

### Encryption

A PDF document can be encrypted to protect its contents from unauthorized access. Encryption applies to all strings and streams in the document's PDF file, but not to other object types such as integers and boolean values, which are used primarily to convey information about the document's structure rather than its content. Leaving these values unencrypted allows random access to the objects within a document, while encrypting the strings and streams protects the document's substantive contents.

### Encrypt40

Type: Function

Description: Encrypt any PDF document using standard PDF 40 RC4 bit encryption.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_opassword varchar2: the owner password to the PDF file
- p\_upassword varchar2 default null: the user password to the PDF file
- p\_canextractcontent boolean default false: The user is allowed to copy or otherwise extract text and graphics from the document, including extracting text and graphics (in support of accessibility to disabled users or for other purposes).
- p\_canmodify boolean default false: The user is allowed to modify the contents of the document.
- p\_canmodifyannotations boolean default false: The user is allowed to add or modify text annotations, fill in interactive form fields, and, if "modify" is also set, create or modify interactive form fields (including signature fields).
- p\_canprint boolean default false: The user is allowed to print the document.

Return: blob: result PDF document

### Encrypt128

Type: Function

Description: Encrypt any PDF document using standard PDF 128 RC4 bit encryption.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_opassword varchar2: the owner password to the PDF file
- p\_upassword varchar2 default null: the user password to the PDF file
- p\_canassemble boolean default false: The user is allowed to assemble the document (insert, rotate, or delete pages and create bookmarks or thumbnail images).
- p\_canextractcontent boolean default false: The user is allowed to copy or otherwise extract text and graphics from the document.

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- `p_canextractforaccessibility` boolean default false: The user is allowed to extract text and graphics(in support of accessibility to disabled users or for other purposes).
- `p_canfillinform` boolean default false: The user is allowed to fill in existing interactive form fields(including signature fields)
- `p_canmodify` boolean default false: The user is allowed to modify the contents of the document
- `p_canmodifyannotations` boolean default false: Add or modify text annotations, fill in interactive form fields.
- `p_canprint` boolean default false: Print the document to a representation from which a faithful digital copyof the PDF content could be generated.
- `p_canmodifyprintresolution` boolean default false: The user is not allowed to print in highest quality.

Return: blob: result PDF document

## AESEncrypt128

Type: Function

Description: Encrypt any PDF document using standard PDF 128 AES bit encryption.

Version: v2.0.0

Parameters:

- `p_inputfile` blob: source PDF file
- `p_opassword` varchar2: the owner password to the PDF file
- `p_upassword` varchar2 default null: the user password to the PDF file
- `p_canassemble` boolean default false: The user is allowed to assemble the document(insert, rotate, or delete pages and create bookmarks or thumbnail images).
- `p_canextractcontent` boolean default false: The user is allowed to copy or otherwiseextract text and graphics from the document.
- `p_canextractforaccessibility` boolean default false: The user is allowed to extract text and graphics(in support of accessibility to disabled users or for other purposes).
- `p_canfillinform` boolean default false: The user is allowed to fill in existing interactive form fields(including signature fields)
- `p_canmodify` boolean default false: The user is allowed to modify the contents of the document
- `p_canmodifyannotations` boolean default false: Add or modify text annotations, fill in interactive form fields.
- `p_canprint` boolean default false: Print the document to a representation from which a faithful digital copyof the PDF content could be generated.
- `p_canmodifyprintresolution` boolean default false: The user is not allowed to print in highest quality.

Return: blob: result PDF document

## PublicKeyEncrypt40

Type: Function

Description: Encrypt any PDF document using standard PDF 40 RC4 bit encryption and public key certificate.

Version: v2.0.0

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## Parameters:

- p\_inputfile blob: source PDF file
- p\_certfile blob: the certificate file
- p\_canextractcontent boolean default false: The user is allowed to copy or otherwise extract text and graphics from the document, including extracting text and graphics(in support of accessibility to disabled users or for other purposes).
- p\_canmodify boolean default false: The user is allowed to modify the contents of the document.
- p\_canmodifyannotations boolean default false: The user is allowed to add or modify text annotations, fill in interactive form fields, and, if "modify" is also set, create or modify interactive form fields(including signature fields).
- p\_canprint boolean default false: The user is allowed to print the document.

Return: blob: result PDF document

## **PublicKeyEncrypt128**

Type: Function

Description: Encrypt any PDF document using standard PDF 128 RC4 bit encryption and public key certificate.

Version: v2.0.0

## Parameters:

- p\_inputfile blob: source PDF file
- p\_certfile blob: the certificate file
- p\_canassemble boolean default false: The user is allowed to assemble the document(insert, rotate, or delete pages and create bookmarks or thumbnail images).
- p\_canextractcontent boolean default false: The user is allowed to copy or otherwise extract text and graphics from the document.
- p\_canextractforaccessibility boolean default false: The user is allowed to extract text and graphics(in support of accessibility to disabled users or for other purposes).
- p\_canfillinform boolean default false: The user is allowed to fill in existing interactive form fields(including signature fields)
- p\_canmodify boolean default false: The user is allowed to modify the contents of the document
- p\_canmodifyannotations boolean default false: Add or modify text annotations, fill in interactive form fields.
- p\_canprint boolean default false: Print the document to a representation from which a faithful digital copy of the PDF content could be generated.
- p\_canmodifyprintresolution boolean default false: The user is not allowed to print in highest quality.

Return: blob: result PDF document

## **Decrypt**

Type: Function

Description: Decrypt an encrypted (40 or 128 bits) PDF document.

Version: v2.0.0

# PL/PDF

## Parameters:

- p\_inputfile blob: source PDF file
- p\_password varchar2: the owner password to the PDF file

Return: blob: result PDF document

## **PublicKeyDecrypt**

Type: Function

Description: Decrypt an encrypted (40 or 128 bits with certificate) PDF document.

Version: v2.0.0

## Parameters:

- p\_inputfile blob: source PDF file
- p\_certfile blob: the certificate file
- p\_password varchar2: the password to the certificate file

Return: blob: result PDF document

## **conv**

Type: Function

Description: Util function for convert a measure to point (pt).

Version: v2.0.0

## Parameters:

- p\_mes number: original measure
  - o pt: point
  - o mm: millimeter
  - o cm: centimeter
  - o in: inch
- p\_unit varchar2: original unit of measure

Return: number: measure in point

## **ExtractText**

Type: Function

Description: Extract text content of any PDF document.

Version: v2.0.0

## Parameters:

- p\_inputfile blob: source PDF file
- p\_encoding varchar2 default null: encoding of result text file (case-sensitive) see <http://java.sun.com/j2se/1.4.2/docs/guide/intl/encoding.doc.html>
- p\_startPage number default null: the start page to extract.
- p\_endPage number default null: the end page to extract.
- p\_password varchar2: the owner password of the PDF file (if encrypted).

Return: blob: result TEXT document

## **Merge**

Type: Function

Description: Merge two PDF documents to a new file.

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Version: v2.0.0

Parameters:

- p\_inputfile1 blob: source PDF file
- p\_inputfile2 blob: source PDF file
- p\_password1 varchar2 default null: the owner password of the PDF file (if encrypted).
- p\_password2 varchar2 default null: the owner password of the PDF file (if encrypted).

Return: blob: result PDF document

## MergeX

Type: Function

Description: Merge PDF documents to a new file.

Version: v2.0.0

Parameters:

- p\_inputfiles t\_merge\_inputs: source PDF files
- p\_x number default 0: X coordinate (top left) for the numbering, -1:center, -2: right(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_y number default 0: Y coordinate (top left) for the numbering, -1:center, -2: bottom(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_font t\_14font: Standard Base 14 Font
- p\_fontSize number: font size in point
- p\_color t\_color default null: color of textsee [http://www.forret.com/tools/color\\_palette.asp](http://www.forret.com/tools/color_palette.asp)
- p\_startNumber number default 1: Start number of the page numbering
- p\_beginNumber number default 1: Start page index from which you want to start the page numbering
- p\_nbAlias varchar2 default null: Page number alias, example 'nb'
- p\_cpAlias varchar2 default null: Current page number alias, example 'cp'
- p\_format varchar2 default null: Page numbering format, example 'cp / nb'

Return: blob: result PDF document

## MergeX

Type: Function

Description: Merge PDF documents to a new file. PDF files stored in plpdf\_tk\_merge\_inputs table.

Version: v2.0.0

Parameters:

- p\_tr\_id number: Transaction ID of the source PDF files
- p\_x number default 0: X coordinate (top left) for the numbering, -1:center, -2: right(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_y number default 0: Y coordinate (top left) for the numbering, -1:center, -2: bottom(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_font t\_14font: Standard Base 14 Font
- p\_fontSize number: font size in point
- p\_color t\_color default null: color of textsee [http://www.forret.com/tools/color\\_palette.asp](http://www.forret.com/tools/color_palette.asp)
- p\_startNumber number default 1: Start number of the page numbering

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- p\_beginNumber number default 1: Start page index from which you want to start the page numbering
- p\_nbAlias varchar2 default null: Page number alias, example 'nb'
- p\_cpAlias varchar2 default null: Current page number alias, example 'cp'
- p\_format varchar2 default null: Page numbering format, example 'cp / nb'

Return: blob: result PDF document

## ReplaceUrl

Type: Function

Description: Replace an URL in a PDF document.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_oldURI varchar2: original URL
- p\_newURI varchar2: new URL
- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).

Return: blob: result PDF document

## JPGStamp

Type: Function

Description: Stamp content into a PDF document with a JPG image.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_imagefile blob: JPG image
- p\_x number: X coordinate (top left) for the image, -1: center, -2: right(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_y number: Y coordinate (top left) for the image, -1: center, -2: bottom(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_width number default -1: Image width, if -1 then the image is displayed in its actual width(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_height number default -1: Image height, if -1 then the image is displayed in its actual height(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).
- p\_opacity number default 1: the constant opacity value to be used for the transparent imaging model, opacity vary from 0.0 (no contribution) to 1.0 (maximum contribution)

Return: blob: result PDF document

## JPGWaterMark

Type: Function

Description: Watermark content into a PDF document with a JPG image.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file

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- p\_imagefile blob: JPG image
- p\_x number: X coordinate (top left) for the image, -1:center, -2:right(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_y number: Y coordinate (top left) for the image, -1:center, -2:bottom(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_width number default -1: Image width, if -1 then the image is displayed in its actual width(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_height number default -1: Image height, if -1 then the image is displayed in its actual height(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).
- p\_opacity number default 1: the constant opacity value to be used for the transparent imaging model, opacity vary from 0.0 (no contribution) to 1.0 (maximum contribution)

Return: blob: result PDF document

## MetadataFromXML

Type: Function

Description: Set PDF metadata from an XML file.

an example XML file:

```
<?xml version="1.0" encoding="UTF-8"?>
<pdf-metadata>
<title>PL/PDF Toolkit - User's Guide</title>
<author>PLPDF</author>
<subject>plpdf toolkit</subject>
<creator>PL/PDF v2.1.0</creator>
<keywords>Oracle PDF</keywords>
<producer>www.plpdf.com</producer>
<createtime>20080903183019</createtime>
<modificationdate>20080904114023</modificationdate>
</pdf-metadata>
```

createtime and modificationdate format are YYYYMMDDHH24MISS

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_xmlfile blob: metadata XML file
- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).

Return: blob: result PDF document

## MetadataFromPars

Type: Function

Description: -

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_title varchar2 default null: The document's title.
- p\_author varchar2 default null: The name of the person who created the

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document.

- p\_subject varchar2 default null: The subject of the document.
- p\_creator varchar2 default null: If the document was converted to PDF from another format, thename of the application (for example, Adobe FrameMaker®) that created theoriginal document from which it was converted.
- p\_keywords varchar2 default null: Keywords associated with the document.
- p\_producer varchar2 default null: If the document was converted to PDF from another format, thename of the application (for example, Acrobat Distiller) that converted it to PDF.
- p\_createtime date default null: The date and time the document was created, in human-readable form.
- p\_modificationdate date default null: The date and time the document was most recently modified, in human-readable form.
- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).

Return: blob: result PDF document

## MetadataToXML

Type: Function

Description: Extract PDF metadata into an XML file.

An example XML file:

```
<?xml version="1.0" encoding="UTF-8"?>
<pdf-metadata>
<title>PL/PDF Toolkit - User's Guide</title>
<author>PLPDF</author>
<subject>plpdf toolkit</subject>
<creator>PL/PDF v2.1.0</creator>
<keywords>Oracle PDF</keywords>
<producer>www.plpdf.com</producer>
<createtime>20080903183019</createtime>
<modificationdate>20080904114023</modificationdate>
</pdf-metadata>
```

createtime and modificationdate format are YYYYMMDDHH24MISS

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).

Return: blob: result XML document

## MetadataToRecord

Type: Function

Description: Extract PDF metadata into the t\_metadata record.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_password varchar2 default null: the owner password of the PDF file (if



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encrypted).

Return: t\_metadata: PDF metadata

## TextStamp

Type: Function

Description: Stamp content into a PDF document with a text.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_message: stamp text (encoding: plpdf\_toolkit\_par.GetDefaultEncoding)
- p\_x number: X coordinate (top left) for the image, -1:center, -2:right(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_y number: Y coordinate (top left) for the image, -1:center, -2:bottom(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_font t\_14font: Standard Base 14 Font
- p\_fontSize number: font size in point
- p\_color t\_color default null: color of textsee [http://www.forret.com/tools/color\\_palette.asp](http://www.forret.com/tools/color_palette.asp)
- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).
- p\_startPage number default null: the start page to extract.
- p\_endPage number default null: the end page to extract.
- p\_rotation number default 0: Text rotation angle
- p\_opacity number default 1: the constant opacity value to be used for the transparent imaging model, opacity vary from 0.0 (no contribution) to 1.0 (maximum contribution)

Return: blob: result PDF document

## TextStampTTF

Type: Function

Description: Stamp content into a PDF document with a text (TTF font type).

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_message: stamp text (encoding: plpdf\_toolkit\_par.GetDefaultEncoding)
- p\_x number: X coordinate (top left) for the image, -1:center, -2:right(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_y number: Y coordinate (top left) for the image, -1:center, -2:bottom(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_font blob: TTF (TrueType Font) file
- p\_fontSize number: font size in point
- p\_color t\_color default null: color of textsee [http://www.forret.com/tools/color\\_palette.asp](http://www.forret.com/tools/color_palette.asp)
- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).
- p\_startPage number default null: the start page to extract.
- p\_endPage number default null: the end page to extract.
- p\_rotation number default 0: Text rotation angle

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- p\_opacity number default 1: the constant opacity value to be used for the transparent imaging model, opacity vary from 0.0 (no contribution) to 1.0 (maximum contribution)

Return: blob: result PDF document

## TextWaterMark

Type: Function

Description: Watermark content into a PDF document with a text.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_message: watermark text (encoding: plpdf\_toolkit\_par.GetDefaultEncoding)
- p\_x number: X coordinate (top left) for the image, -1:center, -2:right(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_y number: Y coordinate (top left) for the image, -1:center, -2:bottom(unit in plpdf\_toolkit\_par.GetDefaultUOM function)
- p\_font t\_14font: Standard Base 14 Font
- p\_fontSize number: font size in point
- p\_color plpdf\_type.t\_color default null: color of text see [http://www.forret.com/tools/color\\_palette.asp](http://www.forret.com/tools/color_palette.asp)
- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).
- p\_rotation number default 0: Text rotation angle
- p\_opacity number default 1: the constant opacity value to be used for the transparent imaging model, opacity vary from 0.0 (no contribution) to 1.0 (maximum contribution)

Return: blob: result PDF document

## PDFWatermark

Type: Function

Description: Overlay on PDF document with another one PDF.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_overlayinputfile blob: overlay PDF file
- p\_overlaypassword varchar2 default null: the owner password of the PDF file (if encrypted).
- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).

Return: blob: result PDF document

## ExportFDF

Type: Function

Description: Export PDF Form data as an FDF file.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file

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- p\_password varchar2: the owner password to the PDF file  
Return: blob: FDF document

## ExportXFDF

Type: Function  
Description: Export PDF Form data as an XFDF file.  
Version: v2.0.0  
Parameters:

- p\_inputfile blob: source PDF file
- p\_password varchar2: the owner password to the PDF file
- p\_exportnull boolean default true: export empty fields

Return: blob: XFDF document

## ImportFDF

Type: Function  
Description: Import an FDF file into the PDF Form's fields.  
Version: v2.0.0  
Parameters:

- p\_inputfile blob: source PDF file
- p\_fdffile blob: FDF file
- p\_password varchar2: the owner password to the PDF file

Return: blob: FDF document

## ImportXFDF

Type: Function  
Description: Import an XFDF file into the PDF Form's fields.  
Version: v2.0.0  
Parameters:

- p\_inputfile blob: source PDF file
- p\_fdffile blob: FDF file
- p\_password varchar2: the owner password to the PDF file

Return: blob: FDF document

## ExtractPages

Type: Function  
Description: Extract pages of any PDF document into a new PDF.  
Version: v2.0.0  
Parameters:

- p\_inputfile blob: source PDF file
- p\_startPage number default null: the start page to extract.
- p\_endPage number default null: the end page to extract.
- p\_password varchar2: the owner password of the PDF file (if encrypted).

Return: blob: result PDF document

## GetNumberOfPages

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Type: Function

Description: Get number of pages of any PDF document.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_password varchar2: the owner password of the PDF file (if encrypted).

Return: number: number of pages

## JPGCompress

Type: Function

Description: Sets the compression quality to a value between 0 and 1 of the JPG images in a PDF document.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_compress number: compression quality to a value between 0 and 1
- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).

Return: blob: result PDF document

## DigSign

Type: Function

Description: Digital sign a PDF document.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_keystore blob: keystore file
- p\_certAlias varchar2 default null: certificate alias in keystore file, null means first the first alias
- p\_keystorePassword varchar2 default null: password of keystore
- p\_privkeyPassword varchar2 default null: password of private key
- p\_Name varchar2 default null: The name of the person or authority signing the document.
- p\_Location varchar2 default null: The CPU host name or physical location of the signing.
- p\_Reason varchar2 default null: The reason for the signing, such as (I agree...).
- p\_ContactInfo varchar2 default null: Information provided by the signer to allow a recipient to contact the signer to verify the signature; for example, a phone number.
- p\_page number default 0: page number of digital signature's position
- p\_x number default 0: X coordinate for the top left corner of the rectangle
- p\_y number default 0: Y coordinate for the top left corner of the rectangle
- p\_w number default 0: The width of the rectangle
- p\_h number default 0: The height of the rectangle
- p\_access\_perms: The access permissions granted for this document. Defined values are:
  - o 1: No changes to the document are permitted; any change to the document

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invalidates the signature.

- o 2: Permitted changes are filling in forms, instantiating page templates, and signing; other changes invalidate the signature.

- o 3: Permitted changes are those allowed by 2, as well as annotation creation, deletion, and modification; other changes invalidate the signature.

- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).

Return: blob: result PDF document

## DigSignEncrypt

Type: Function

Description: Digital sign and encrypt a PDF document.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_keystore blob: keystore file
- p\_certAlias varchar2 default null: certificate alias in keystore file, null means first the first alias
- p\_keystorePassword varchar2 default null: password of keystore
- p\_privkeyPassword varchar2 default null: password of private key
- p\_Name varchar2 default null: The name of the person or authority signing the document.
- p\_Location varchar2 default null: The CPU host name or physical location of the signing.
- p\_Reason varchar2 default null: The reason for the signing, such as (I agree...).
- p\_ContactInfo varchar2 default null: Information provided by the signer to allow a recipient to contact the signer to verify the signature; for example, a phone number.
- p\_page number default 0: page number of digital signature's position
- p\_x number default 0: X coordinate for the top left corner of the rectangle
- p\_y number default 0: Y coordinate for the top left corner of the rectangle
- p\_w number default 0: The width of the rectangle
- p\_h number default 0: The height of the rectangle
- p\_access\_perms: The access permissions granted for this document. Defined values are:
  - o 1: No changes to the document are permitted; any change to the document invalidates the signature.
  - o 2: Permitted changes are filling in forms, instantiating page templates, and signing; other changes invalidate the signature.
  - o 3: Permitted changes are those allowed by 2, as well as annotation creation, deletion, and modification; other changes invalidate the signature.
- p\_password varchar2 default null: the owner password of the PDF file (if encrypted).
- p\_opassword varchar2: the owner password to the PDF file
- p\_upassword varchar2 default null: the user password to the PDF file
- p\_canassemble boolean default false: The user is allowed to assemble the document(insert, rotate, or delete pages and create bookmarks or thumbnail images).

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- p\_canextractcontent boolean default false: The user is allowed to copy or otherwise extract text and graphics from the document.
- p\_canextractforaccessibility boolean default false: The user is allowed to extract text and graphics(in support of accessibility to disabled users or for other purposes).
- p\_canfillinform boolean default false: The user is allowed to fill in existing interactive form fields(including signature fields)
- p\_canmodify boolean default false: The user is allowed to modify the contents of the document
- p\_canmodifyannotations boolean default false: Add or modify text annotations, fill in interactive form fields.
- p\_canprint boolean default false: Print the document to a representation from which a faithful digital copy of the PDF content could be generated.
- p\_canmodifyprintresolution boolean default false: The user is not allowed to print in highest quality.
- p\_algorithm varchar2 default 'RC4': The encryption algorithm, possible values are RC4 and AES
- p\_keylength number default 40: The encryption key length in bit, possible values are 40 and 128

Return: blob: result PDF document

## Rebuild

Type: Function

Description: Rebuild any PDF document into a new PDF.

Version: v2.0.0

Parameters:

- p\_inputfile blob: source PDF file
- p\_password varchar2: the owner password of the PDF file (if encrypted).

Return: blob: result PDF document

## Version History

### 03-DEC-2012, v1.7.0

- JPGStamp: new parameter: p\_opacity
- JPGWaterMark: new parameter: p\_opacity
- TextStamp: new parameter: p\_opacity
- TextWaterMark: new parameter: p\_opacity

### 01-FEB-2013, v1.8.0

- code optimization

### 01-OKT-2013, v2.0.0

- code optimization (Oracle 11g)
- new function: TextStampTTF
- Encrypt128: parameter rename: old name: p\_canprintdegraded, new name: p\_canmodifyprintresolution
- AESEncrypt128: parameter rename: old name: p\_canprintdegraded, new name: p\_canmodifyprintresolution
- PublicKeyEncrypt128: parameter rename: old name: p\_canprintdegraded, new name: p\_canmodifyprintresolution
- JPGStamp: top-left origin coordinate system, p\_y=-2 is bottom Y coordinate
- JPGWatermark: top-left origin coordinate system, p\_y=-2 is bottom Y coordinate
- TextStamp: top-left origin coordinate system, p\_y=-2 is bottom Y coordinate
- TextStampTTF: top-left origin coordinate system, p\_y=-2 is bottom Y coordinate
- TextWatermark: top-left origin coordinate system, p\_y=-2 is bottom Y coordinate
- DigSign: top-left origin coordinate system
- DigSignEncrypt: top-left origin coordinate system