

***PL/PDF***

**PL/PDF**

User's Guide

v2.5.0

# PL/PDF

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# ***PL/PDF***

## **Introduction**

PL/PDF is a PL/SQL based PDF document generator from Oracle databases. Use PL/PDF to quickly and easily develop applications with dynamic content but also quality presentation and printing capabilities.

## **Installation**

Before using PL/PDF, make sure that the steps described in the Installation Guide were completed.

## **Using PL/PDF**

Essentially, PL/PDF is a series of calls to PL/PDF procedures and functions from a PL/SQL script, package, procedure or function. If you are not familiar with the PL/SQL programming language, study the Oracle documentation.

## **Documentation**

The PL/PDF documentation is available at: <http://www.plpdf.com/23-927.html>

## **Code Examples**

PL/PDF code examples can be found at: <http://www.plpdf.com/23-926.html>

## **Contact**

Contact us at: <mailto:info@plpdf.com>

## 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.

Version: v2.3.0

Parameters: -

Return: varchar2: Preliminary certificate key

### CertKeyCheck

Type: Function

Description: Checks the certification key.

Usage:

declare

l\_ret boolean;

begin

l\_ret := plpdf.CertKeyCheck;

if l\_ret then

dbms\_output.put\_line('true');

else

dbms\_output.put\_line('false');

end if;

end;

Version: v2.3.0

Parameters: -

Return: boolean: validity of the key

# PL/PDF

## Administrative commands

### AddCJKFont

Type: Procedure

Description: Add CJK (Chinese/Japanese/Korean) font.

Version: v1.5.0

Parameters:

- p\_name varchar2: name of font
  - o japanese: 'HeiseiKakuGo-W5'
  - o korean: 'HYSMyeongJoStd-Medium-Acro'
  - o chinese: 'MSungStd-Light-Acro', 'STSongStd-Light-Acro'

Return: -

### AddTTF

Type: Procedure

Description: Imports a TTF (True Type Font). The imported font becomes available to the SetPrintFont procedure. The font is stored as binary data in the PDF file.

Version: v1.2.4

Parameters:

- p\_family varchar2: TTF name
- p\_style varchar2 default null: Font style
  - o null: Regular
  - o B: Bold
  - o I: Italic
  - o BI or IB: Bold and Italic
- p\_data t\_addfont: Data structure necessary to insert the font. It contains the font definition binary file as well

Return: -

### Init

Type: Procedure

Description: Initializes generator program variables.

Version: v2.1.0

Parameters:

- p\_orientation varchar2 default 'P': Orientation
  - o P: portrait
  - o L: landscape
- p\_unit varchar2 default 'mm': Unit of measure
- p\_format varchar2 default 'A4': Page format

Return: -

### Init1

Type: Procedure

Description: Initializes generator program variables.

# PL/PDF

Version: v2.1.1

Parameters:

- p\_orientation varchar2 default 'P': Orientation
  - o P: portrait
  - o L: landscape
- p\_unit varchar2 default 'mm': Unit of measure
- plpdf\_type.t\_pageformat: see plpdf\_const package for predefined pageformats

Return: -

## GetVersion

Type: Function

Description: Gets the version number of pl/pldf package.

Version: v1.0.0

Parameters: -

Return: varchar2: number of current version

## setRTOL

Type: Procedure

Description: Set text direction Right to Left. Set RtoL is an initialization procedure, therefore it may only be used once.

Version: v2.1.1

Parameters:

- p\_full boolean default null: All text RTOL and mirroring
  - o null: only LtoR text (default)
  - o true: full RtoL with right alignment by default
  - o false: LtoR text with some RtoL text in it

Return: -

## nopAlias

Type: Procedure

Description: Defines the page number alias.

Version: v1.1.8

Parameters:

- p\_alias varchar2 default '{ nb }': Page number alias
- p\_cp\_alias varchar2 default '{ cp }': Current page number alias
- p\_format varchar2 default '{ cp }'/'{ nb }': Page numbering format

Return: -

## SetRotatePages

Type: Procedure

Description: Sets the degree of rotation for all pages. The value must be a multiple of 90.

Version: v2.5.0

Parameters:

- p\_angle number: Angle/degree of rotation

Return: -

# PL/PDF

## SendDoc

Type: Procedure

Description: Returns the generated PDF document. The document is closed and then returned in the OUT parameter.

Version: v1.0.0

Parameters:

- p\_blob OUT NOCOPY BLOB: the generated document

Return: -

## SetAllMargin

Type: Procedure

Description: Sets the margin size.

Version: v1.2.4

Parameters:

- p\_left number: Left margin size
- p\_top number: Top margin size
- p\_right number default -1: Right margin size. When it is set to -1 then the right margin will be the same as the left margin

Return: -

## SetAutoNewPage

Type: Procedure

Description: Enables or disables automatic page breaks. The p\_margin parameter is only relevant when enabling automatic page breaks. It sets the bottom margin size under which an automatic page break is triggered.

Version: v1.2.4

Parameters:

- p\_auto boolean: Automatic page break
  - o true: Enable
  - o false: Disable
- p\_margin number default 0: Bottom margin size, if not set, then 1 cm

Return: -

## SetCompress

Type: Procedure

Description: Enables or disables the compression of PDF documents. By default compression is enabled.

Version: v2.0.0

Parameters:

- p\_compress boolean: Compression
  - o True: Enable
  - o False: Disable
- p\_method varchar2 default null: compress method
  - o plpdf\_const.comp\_FlateDecode: FlateDecode (Java)
  - o plpdf\_const.comp\_LZWDecode: LZWDecode
  - o plpdf\_const.comp\_PLDeflate: FlateDecode (PL/SQL)

Return: -

## SetDocAuthor

Type: Procedure

Description: Sets the document author.

Version: v1.0.0

Parameters:

- p\_author varchar2: Document author

Return: -

## SetDocCreator

Type: Procedure

Description: Sets the document creator.

Version: v1.0.0

Parameters:

- p\_creator varchar2: Document creator

Return: -

## SetDocDisplayMode

Type: Procedure

Description: Sets how to display the document in a PDF viewer (e.g. Acrobat Reader).

Version: v1.2.4

Parameters:

- p\_zoom varchar2: Layout view
  - o fullpage: fits as full page
  - o fullwidth: fits as full width
  - o real: fits in actual size
  - o default: displays according to the setting of the PDF viewer
- p\_layout varchar2 default 'continuous': Page layout
  - o single: displays single pages
  - o continuous: displays pages continuously
  - o default: displays according to the setting of the PDF viewer
- p\_hidemenubar boolean default false: A flag specifying whether to hide the viewer application's menu bar when the document is active.
- p\_hidetoolbar boolean default false: A flag specifying whether to hide the viewer application's tool bars when the document is active.
- p\_hidewindowui boolean default false: A flag specifying whether to hide user interface elements in the document's window (such as scrollbars and navigation controls), leaving only the document's contents displayed.
- p\_displaydoctitle boolean default false: A flag specifying whether the window's title bar should display the document title taken from theTitle entry of the document information dictionary.
- p\_centerwindow boolean default false: A flag specifying whether to position the document's window in the center of the screen.
- p\_fitwindow boolean default false: A flag specifying whether to resize the document's window to fit the size of the first displayed page.

Return: -

## SetDocKeywords

# PL/PDF

Type: Procedure

Description: Sets the document keywords.

Version: v1.0.0

Parameters:

- p\_keywords varchar2: Keyword list

Return: -

## SetDocSubject

Type: Procedure

Description: Sets the document subject.

Version: v1.0.0

Parameters:

- p\_subject varchar2: Document subject

Return: -

## SetDocTitle

Type: Procedure

Description: Sets the document title.

Version: v1.0.0

Parameters:

- p\_title varchar2: Document title

Return: -

## SetEncoding

Type: Procedure

Description: Sets Adobe Core character encoding (default code is cp1252).

Version: v1.2.4

Parameters:

- p\_enc varchar2: Character encoding code

o cp1250

o cp1251

o cp1252: this is the default, no need to set

o cp1253

o cp1254

o cp1255

o cp1256

o cp1257

o cp1258

o cp874

o iso-8859-1

o iso-8859-2

o iso-8859-4

o iso-8859-5

o iso-8859-7

o iso-8859-9

o iso-8859-15

o iso-8859-16

o utf16: AL32UTF8 database with unicode TTF embending

# PL/PDF

Return: -

## SetHeaderProcName

Type: Procedure

Description: Sets the page header procedure name. The program name passed as a parameter executes when the page header is created. If SetHeaderProcName is not executed before a page header is created then the page header will be empty.

Version: v1.2.4

Parameters:

- p\_proc\_name varchar2: Page header procedure name
- p\_height number: height of header section

Return: -

## SetFooterProcName

Type: Procedure

Description: Sets the page footer procedure name. The program name passed as a parameter executes when the page footer is created. If SetFooterProcName is not executed before a page footer is created then the page footer will be empty.

Version: v1.2.4

Parameters:

- p\_proc\_name varchar2: Page header procedure name
- p\_height number: height of header section

Return: -

## SetLeftMargin

Type: Procedure

Description: Sets the left margin size.

Version: v1.2.4

Parameters:

- p\_margin number: Margin size

Return: -

## SetTopMargin

Type: Procedure

Description: Sets the top margin size.

Version: v1.2.4

Parameters:

- p\_margin number: Margin size

Return: -

## SetRightMargin

Type: Procedure

Description: Sets the right margin size.

Version: v1.2.4

# PL/PDF

## Parameters:

- p\_margin number: Margin size

Return: -

## **SetNOLastpageProcName**

Type: Procedure

Description: Sets the not last page procedure name. The program name passed as a parameter executes when the not last page closed.

Version: v1.6.0

## Parameters:

- p\_proc\_name varchar2: Procedure name

Return: -

## **SetPageNoStart**

Type: Procedure

Description: Sets start of page numbering to the current page.

Version: v1.1.8

Parameters: -

Return: -

## **SetPageNoEnd**

Type: Procedure

Description: Sets end of page numbering to the current page, see [SetPageNoStart](#).

Version: v1.1.8

Parameters: -

Return: -

## **SetProtection**

Type: Procedure

Description: Allows to protect the PDF document.

Version: v2.5.0

## Parameters:

- p\_print\_perm Boolean default false: print the PDF
- p\_modify\_perm Boolean default false: modify the PDF
- p\_annot\_forms\_perm Boolean default false: add annotations and forms
- p\_user\_pass varchar2 default null: user password
- p\_owner\_pass varchar2 default null: owner password

Return: -

## **SetPDFA1B**

Type: Procedure

Description: Set PDF/A-1B support.

Version: v2.3.0

Parameters: -

Return: -

# PL/PDF

## Navigations and formatting commands

### CheckPageBreak

Type: Function

Description: If the height would cause an overflow, add a new page immediately, and return true.

Version: v1.7.0

Parameters:

- p\_h number: height for check page overflow
- p\_newpage boolean default true: do NewPage procedure

Return: boolean

- o true: overflow is reached
- o false: don't reach overflow

### CurrentPagenumber

Type: Function

Description: Returns the page number of the current page.

Version: v1.0.0

Parameters: -

Return: number: Page number of the current page

### GetLeftMargin

Type: Function

Description: Gets the page left margin size.

Version: v2.3.0

Parameters: -

Return: number: Size of left margin

### GetRightMargin

Type: Function

Description: Gets the page right margin size.

Version: v2.3.0

Parameters: -

Return: number: Size of right margin

### GetTopMargin

Type: Function

Description: Gets the page top margin size.

Version: v2.3.0

Parameters: -

Return: number: Size of top margin

### GetBottomMargin

# PL/PDF

Type: Function

Description: Gets the page bottom margin size.

Version: v2.3.0

Parameters: -

Return: number: Size of bottom margin

## GetHeaderHeight

Type: Function

Description: Gets the page header size.

Version: v2.3.0

Parameters: -

Return: number: Size of header

## GetFooterHeight

Type: Function

Description: Gets the page footer size.

Version: v2.3.0

Parameters: -

Return: number: Size of footer

## GetCurrentX

Type: Function

Description: Gets the X coordinate of the cursor.

Version: v1.0.0

Parameters: -

Return: number: X coordinate

## GetCurrentY

Type: Function

Description: Gets the Y coordinate of the cursor.

Version: v1.0.0

Parameters: -

Return: number: Y coordinate

## GetFontInfo

Type: Procedure

Description: Internal

Version: v2.1.0

Parameters:

- p\_fontkey varchar2: Fontkey

Return: plpdf\_type.t\_font\_info: Font info

## GetPageAvailableHeight

Type: Function

Description: Gets the available height (without margins) of actual page.

# PL/PDF

Version: v1.1.4

Parameters: -

Return: number: Available height

## GetPageAvailableWidth

Type: Function

Description: Gets the available width (without margins) of actual page.

Version: v1.1.4

Parameters: -

Return: number: Available width

## GetPageHeight

Type: Function

Description: Gets the height of actual page.

Version: v1.1.4

Parameters: -

Return: number

## GetPageRightSpace

Type: Function

Description: Gets the available width (without margins) of actual page from current position.

Version: v1.7.0

Parameters: -

Return: number

## GetPageLeftSpace

Type: Function

Description: Gets the available width (without margins) of actual page from current position.

Version: v2.1.1

Parameters: -

Return: number

## GetPageSpace

Type: Function

Description: Gets the available width (without margins) of actual page from current position.

Version: v2.1.1

Parameters: -

Return: number

## GetPageWidth

Type: Function

Description: Gets the width of actual page.

# PL/PDF

Version: v1.1.4

Parameters: -

Return: number

## GetPrintFontName

Type: Function

Description: Get the current font type. See [SetPrintFont](#).

Version: v1.2.2

Parameters: -

Return: varchar2: Font type

## GetPrintFontStyle

Type: Function

Description: Get the current font style. See [SetPrintFont](#)

Version: v2.1.0

Parameters: -

Return: varchar2: Font style

## GetPrintFontSize

Type: Function

Description: Get the current font size. See [SetPrintFont](#)

Version: v1.2.2

Parameters: -

Return: varchar2: Font size

## GetScaleFactor

Type: Function

Description: Get the current scale factor.

Version: v1.4.0

Parameters: -

Return: number: scale factor

## GetTextWidth

Type: Function

Description: Returns the width of the parameter text (uses current font).

Version: v1.0.0

Parameters:

- p\_s varchar2: Text

Return: number: The width of the text in the unit of measure specified in Init

## GetTextWidthFont

Type: Function

Description: Returns the width of the parameter text, font is a parameter too.

Version: v2.3.0

Parameters:

# PL/PDF

- p\_family varchar2 default null: Font type, null means current font family
  - o Helvetica (Arial, Sans Serif)
  - o Courier
  - o Times (Serif)
  - o Symbol
  - o ZapfDingBats
  - o If TTF fonts were added using the AddTTF procedure then they may be used here as well.
- p\_style varchar2 default null: Font style
  - o null: Regular
  - o B: Bold
  - o I: Italic
  - o U: Underline
  - o The styles may be combined (i.e. BI will be Bold and Italic)
- p\_size number default null: Font size, null means current font size
- p\_s varchar2: Text

Return: number: The width of the text in the unit of measure specified in Init

## InsertMovePage

Type: Procedure

Description: Insert a new page and move it by changing order of pages.

Version: v1.4.0

Parameters:

- p\_orig\_pos number: origin page position
- p\_new\_pos number: new page position

Return: -

## LineBreak

Type: Procedure

Description: Line break. Cursor is placed at the start of the next line.

Version: v1.2.4

Parameters:

- p\_h number default NULL: Height of the line break. If not set, then the last printed cells height is the height by default.

Return: -

## NewPage

Type: Procedure

Description: Creates a new page. If no orientation is given then the orientation specified in Init will be used. If a page was previously open, a page break is initiated and the cursor is placed at the top left corner of the new page.

Version: v1.2.4

Parameters:

- p\_orientation varchar2 default NULL: Page orientation
  - o P: Portrait
  - o L: Landscape

Return: -

# PL/PDF

## SetCurrentX

Type: Procedure

Description: Places the cursor at the X coordinate.

Version: v1.0.0

Parameters:

- p\_x number default 0: X coordinate

Return: -

## SetCurrentY

Type: Procedure

Description: Places the cursor at the Y coordinate and reset X.

Version: v1.7.0

Parameters:

- p\_y number default 0: Y coordinate
- p\_cr boolean default true: X position returns to beginning of line

Return: -

## SetCurrentXY

Type: Procedure

Description: Places the cursor at the X and Y coordinate.

Version: v1.0.0

Parameters:

- p\_x number default 0: X coordinate
- p\_y number default 0: Y coordinate

Return: -

## Content Related Commands

### AddCircle2Pattern

Type: Procedure

Description: Add a circle to the pattern, see [CrTillingPattern](#).

Version: v1.1.7

Parameters:

- p\_name varchar2: name of pattern
- p\_x number: X coordinate of the center of the circle
- p\_y number: Y coordinate of the center of the circle
- p\_r number: the radius of the circle
- p\_style varchar2 default 'D': Style
  - o D: No fill, border line
  - o F: Fill, no border line
  - o DF or FD: Fill and border line

Return: -

### AddEllipse2Pattern

Type: Procedure

Description: Add a ellipse to the pattern, see [CrTillingPattern](#).

Version: v1.2.4

Parameters:

- p\_name varchar2: name of pattern
- p\_x number: X coordinate of the center of the ellipse
- p\_y number: Y coordinate of the center of the ellipse
- p\_rx number: horizontal radius of the ellipse
- p\_ry number: vertical radius of the ellipse
- p\_style varchar2 default 'D': Style
  - o D: No fill, border line
  - o F: Fill, no border line
  - o DF or FD: Fill and border line

Return: -

### AddLine2Pattern

Type: Procedure

Description: Add a line to the pattern, see [CrTillingPattern](#).

Version: v1.2.4

Parameters:

- p\_name varchar2: name of pattern
- p\_x1 number: X coordinate for the start of the line
- p\_y1 number: Y coordinate for the start of the line
- p\_x2 number: X coordinate for the end of the line
- p\_y2 number: Y coordinate for the end of the line

Return: -

### AddPolygon2Pattern

# PL/PDF

Type: Procedure

Description: Add a polygon to the pattern, see [CrTilingPattern](#).

Version: v1.2.4

Parameters:

- p\_name varchar2: name of pattern
- p\_points plpdf\_type.t\_points: set of ordered points
- p\_style varchar2 default 'D': Style
  - o D: No fill, border line
  - o F: Fill, no border line
  - o DF or FD: Fill and border line

Return: -

## AddRect2Pattern

Type: Procedure

Description: Add a rectangle to the pattern, see [CrTilingPattern](#).

Version: v1.2.4

Parameters:

- p\_name varchar2: name of pattern
- p\_x number: X coordinate for the top left corner of the rectangle
- p\_y number: Y coordinate for the top left corner of the rectangle
- p\_w number: The width of the rectangle
- p\_h number: The height of the rectangle
- p\_style varchar2 default NULL: Style
  - o D: No fill, border line
  - o F: Fill, no border line
  - o DF or FD: Fill and border line

Return: -

## AddFileAnnot

Type: Procedure

Description: Add File annotation to the current page

Version: v1.2.4

Parameters:

- p\_name varchar2 default 'PushPin': The name of an icon to be used in displaying the annotation.
  - o PushPin
  - o Graph
  - o Paperclip
  - o Tag
- p\_contents varchar2: The text to be displayed in the pop-up window when the annotation is opened.
- p\_x number: X coordinate of the annotation
- p\_y number: Y coordinate of the annotation
- p\_filename varchar2: name of file
- p\_fileblob blob: file
- p\_label varchar2 default null: The text label to be displayed in the title bar of the annotation's pop-up window when open and active.
- p\_color plpdf\_type.t\_color default null: This color will be used for the following purposes

# PL/PDF

- o The background of the annotation's icon when closed
- o The title bar of the annotation's pop-up window
- o The border of a link annotation

Return: -

## AddHighLightAnnot

Type: Procedure

Description: Add HighLight annotation to the current page

Version: v1.2.2

Parameters:

- p\_contents varchar2: The text to be displayed in the pop-up window when the annotation is opened.
- p\_x number: X coordinate of the annotation
- p\_y number: Y coordinate of the annotation
- p\_w number: width of the annotation
- p\_h number: height of the annotation
- p\_label varchar2 default null: The text label to be displayed in the title bar of the annotation's pop-up window when open and active.
- p\_color plpdf\_type.t\_color default null: This color will be used for the following purposes
  - o The background of the annotation's icon when closed
  - o The title bar of the annotation's pop-up window
  - o The border of a link annotation
- p\_popup\_x number default null: X coordinate of the pop-up window
- p\_popup\_y number default null: Y coordinate of the pop-up window
- p\_popup\_w number default null: width of the pop-up window
- p\_popup\_h number default null: height of the pop-up window
- p\_open boolean default false: A flag specifying whether the pop-up window should initially be displayed open.

Return: -

## AddTextAnnot

Type: Procedure

Description: Add Text annotation to the current page

Version: v1.2.4

Parameters:

- p\_name varchar2 default 'Note': The name of an icon to be used in displaying the annotation.
  - o Comment
  - o Key
  - o Note
  - o Help
  - o NewParagraph
  - o Paragraph
  - o Insert
- p\_contents varchar2: The text to be displayed in the pop-up window when the annotation is opened.
- p\_x number: X coordinate of the annotation
- p\_y number: Y coordinate of the annotation

# PL/PDF

- p\_label varchar2 default null: The text label to be displayed in the title bar of the annotation's pop-up window when open and active.
- p\_color plpdf\_type.t\_color default null: This color will be used for the following purposes
  - o The background of the annotation's icon when closed
  - o The title bar of the annotation's pop-up window
  - o The border of a link annotation
- p\_popup\_x number default null: X coordinate of the pop-up window
- p\_popup\_y number default null: Y coordinate of the pop-up window
- p\_popup\_w number default null: width of the pop-up window
- p\_popup\_h number default null: height of the pop-up window
- p\_open boolean default false: A flag specifying whether the pop-up window should initially be displayed open.

Return: -

## AddStrikeOutAnnot

Type: Procedure

Description: Add StrikeOut annotation to the current page

Version: v1.2.2

Parameters:

- p\_contents varchar2: The text to be displayed in the pop-up window when the annotation is opened.
- p\_x number: X coordinate of the annotation
- p\_y number: Y coordinate of the annotation
- p\_w number: width of the annotation
- p\_h number: height of the annotation
- p\_label varchar2 default null: The text label to be displayed in the title bar of the annotation's pop-up window when open and active.
- p\_color plpdf\_type.t\_color default null: This color will be used for the following purposes
  - o The background of the annotation's icon when closed
  - o The title bar of the annotation's pop-up window
  - o The border of a link annotation
- p\_popup\_x number default null: X coordinate of the pop-up window
- p\_popup\_y number default null: Y coordinate of the pop-up window
- p\_popup\_w number default null: width of the pop-up window
- p\_popup\_h number default null: height of the pop-up window
- p\_open boolean default false: A flag specifying whether the pop-up window should initially be displayed open.

Return: -

## AddUnderlineAnnot

Type: Procedure

Description: Add Underline annotation to the current page

Version: v1.2.2

Parameters:

- p\_contents varchar2: The text to be displayed in the pop-up window when the annotation is opened.
- p\_x number: X coordinate of the annotation

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- p\_y number: Y coordinate of the annotation
- p\_w number: width of the annotation
- p\_h number: height of the annotation
- p\_label varchar2 default null: The text label to be displayed in the title bar of the annotation's pop-up window when open and active.
- p\_color plpdf\_type.t\_color default null: This color will be used for the following purposes
  - o The background of the annotation's icon when closed
  - o The title bar of the annotation's pop-up window
  - o The border of a link annotation
- p\_popup\_x number default null: X coordinate of the pop-up window
- p\_popup\_y number default null: Y coordinate of the pop-up window
- p\_popup\_w number default null: width of the pop-up window
- p\_popup\_h number default null: height of the pop-up window
- p\_open boolean default false: A flag specifying whether the pop-up window should initially be displayed open.

Return: -

## AddScreenAnnotURL

Type: Procedure

Description: A screen annotation specifies a region of a page upon which media clips may be played. Source of the media is an URL.

Version: v2.3.0

Parameters:

- p\_name varchar2: Name of the media clip.
- p\_x number: X coordinate of the annotation
- p\_y number: Y coordinate of the annotation
- p\_w number: width of the annotation
- p\_h number: height of the annotation
- p\_url varchar2: URL of the annotation
- p\_mime varchar2: MIME type of the annotation
- p\_event varchar2 default null: Additional action when play annotation
  - o null: play clip when click/activate annotation only
  - o PV: An action to be performed when the page containing the annotation becomes visible in the viewer application's user interface.
  - o PO: An action to be performed when the page containing the annotation is opened.

Return: -

## AddScreenAnnotFile

Type: Procedure

Description: A screen annotation specifies a region of a page upon which media clips may be played. Source of the media is an BLOB.

Version: v2.3.0

Parameters:

- p\_name varchar2: Name of the media clip.
- p\_x number: X coordinate of the annotation
- p\_y number: Y coordinate of the annotation
- p\_w number: width of the annotation

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- p\_h number: height of the annotation
- p\_fileblob blob: File of the annotation
- p\_mime varchar2: MIME type of the annotation
- p\_event varchar2 default null: Additional action when play annotation
  - o null: play clip when click/activate annotation only
  - o PV: An action to be performed when the page containing the annotation becomes visible in the viewer application's user interface.
  - o PO: An action to be performed when the page containing the annotation is opened.

Return: -

## AttachFile

Type: Procedure

Description: Attaches a file to the PDF document.

Version: v1.2.4

Parameters:

- p\_filename varchar2: name of file
- p\_fileblob blob: file
- p\_desc varchar2 default null: description of file

Return: -

## CrBookmark

Type: Procedure

Description: Create a bookmark in the PDF document. Bookmarks are displayed in the PDF viewer program (e.g. Acrobat Reader).

Version: v1.2.4

Parameters:

- p\_txt varchar2: Text of the bookmark
- p\_level number default 0: Bookmark level, 0 is the highest level
- p\_y number default 0: Y coordinate of the bookmark within the current page.
  - 1 denotes the cursor position.

Return: -

## CrInternalLink

Type: Function

Description: Creates an internal link, and returns its ID. An internal link can be used to take the cursor to another place within the document by clicking over it.

Version: v1.0.0

Parameters: -

Return: number: The ID of the internal link

## CrTilingPattern

Type: Procedure

Description:

- o Starts of define a "Tiling Pattern". Tiling patterns consist of a small graphical figure (called a pattern cell) that is replicated at fixed

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horizontal and vertical intervals to fill the area to be painted.

Add "graphical figure" to pattern:AddLine2Pattern: add a line to pattern

- o AddRect2Pattern: add a rectangle to pattern
- o AddEllipse2Pattern: add a ellipse to pattern
- o AddCircle2Pattern: add a circle to pattern
- o AddPolygon2Pattern: add a polygon to pattern

Version: v1.2.4

Parameters:

- p\_name varchar2: name of pattern
- p\_width number: width of pattern cell
- p\_height number: height of pattern cell

Return: -

## DrawCircle

Type: Procedure

Description: Draws a circle on the current page.

Version: v1.0.0

Parameters:

- p\_x number: X coordinate of the center of the circle
- p\_y number: Y coordinate of the center of the circle
- p\_r number: the radius of the circle
- p\_style varchar2 default NULL: Style
  - o D: No fill, border line
  - o F: Fill, no border line
  - o DF or FD: Fill and border line

Return: -

## DrawEllipse

Type: Procedure

Description: Draws an ellipse on the current page.

Version: v1.2.4

Parameters:

- p\_x number: X coordinate of the center of the ellipse
- p\_y number: Y coordinate of the center of the ellipse
- p\_rx number: horizontal radius of the ellipse
- p\_ry number: vertical radius of the ellipse
- p\_style varchar2 default 'D': Style
  - o D: No fill, border line
  - o F: Fill, no border line
  - o DF or FD: Fill and border line

Return: -

## DrawLine

Type: Procedure

Description: Draws a line between the two positions on the page.

Version: v1.2.4

Parameters:

- p\_x1 number: X coordinate for the start of the line

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- p\_y1 number: Y coordinate for the start of the line
- p\_x2 number: X coordinate for the end of the line
- p\_y2 number: Y coordinate for the end of the line

Return: -

## DrawPolygon

Type: Procedure

Description: Draws a lines (polygon) between the points on the page.

Version: v2.5.0

Parameters:

- p\_points plpdf\_type.t\_points: set of ordered points
- p\_style varchar2 default 'D': Style
  - o D: No fill, border line
  - o F: Fill, no border line
  - o DF or FD: Fill and border line

Return: -

## DrawRect

Type: Procedure

Description: Draws a rectangle on the page.

Version: v1.0.0

Parameters:

- p\_x number: X coordinate for the top left corner of the rectangle
- p\_y number: Y coordinate for the top left corner of the rectangle
- p\_w number: The width of the rectangle
- p\_h number: The height of the rectangle
- p\_style varchar2 default NULL: Style
  - o D: No fill, border line
  - o F: Fill, no border line
  - o DF or FD: Fill and border line

Return: -

## DrawRoundedRect

Type: Procedure

Description: Draws a rectangle on the page.

Version: v2.3.1

Parameters:

- p\_x number: X coordinate for the top left corner of the rectangle
- p\_y number: Y coordinate for the top left corner of the rectangle
- p\_w number: The width of the rectangle
- p\_h number: The height of the rectangle
- p\_r number: The radius of the corners
- p\_style varchar2 default NULL: Style
  - o D: No fill, border line
  - o F: Fill, no border line
  - o DF or FD: Fill and border line

Return: -

## DrawSector

Type: Procedure

Description: Draws a sector on the current page.

Version: v1.0.0

Parameters:

- p\_xc number: X coordinate of the center of the sector
- p\_yc number: Y coordinate of the center of the sector
- p\_r number: Radius of the sector
- p\_a number: Starting point of the sector
- p\_b number: End point of the sector
- p\_style varchar2 default 'FD': Style
  - o D: No fill, border line
  - o F: Fill, no border line
  - o DF vagy FD: Fill and border line
- p\_cw boolean default true: Draw direction
  - o true: Clockwise
  - o false: Anti-clockwise
- p\_o number default 90: origin of angles

Return: -

## EndClipping

Type: Procedure

Description: End a clipping frame. See [StartClipping](#)

Version: v2.1.0

Parameters: -

Return: -

## EndOpacity

Type: Procedure

Description: End a transparency. See [StartOpacity](#)

Version: v2.1.0

Parameters: -

Return: -

## EndOptCont

Type: Procedure

Description: End an optional content. See [link StartOptCont](#)

Version: v2.1.0

Parameters: -

Return: -

## GetCellMargin

Type: Function

Description: Gets the cell margin size.

Version: v2.1.0

Parameters: -

Return: number: Margin size

## GetCellBottomMargin

Type: Function

Description: Gets the cell bottom margin size.

Version: v2.1.1.0

Parameters: -

Return: number: Size of bottom margin

## GetCellLeftMargin

Type: Function

Description: Gets the cell left margin size.

Version: v2.1.1.0

Parameters: -

Return: number: Size of left margin

## GetCellRightMargin

Type: Function

Description: Gets the cell right margin size.

Version: v2.1.1.0

Parameters: -

Return: number: Size of right margin

## GetCellTopMargin

Type: Function

Description: Gets the cell top margin size.

Version: v2.1.1.0

Parameters: -

Return: number: Size of top margin

## GetColor4Drawing

Type: Function

Description: Gets the line color for objects.

Version: v1.1.6

Parameters: -

Return: plpdf\_type.t\_color: Drawing color

## GetColor4Filling

Type: Function

Description: Gets the filling color for objects.

Version: v1.1.6

Parameters: -

Return: plpdf\_type.t\_color: Filling color

## GetColor4Text

# PL/PDF

Type: Function

Description: Gets the color of text.

Version: v1.1.6

Parameters: -

Return: plpdf\_type.t\_color: Color of text

## GetLineWidth

Type: Function

Description: Gets the current line size.

Version: v1.1.6

Parameters: -

Return: number: Line size

## GetRowHeight

Type: Function

Description: Returns with height of row, see [Row Print2](#).

Version: v1.1.3

Parameters:

- p\_data plpdf\_type.t\_row\_datas: Data shown in the cells
- p\_width plpdf\_type.t\_row\_widths: Width of the cells
- p\_maxline plpdf\_type.t\_row\_maxlines: Maximum number of lines in a multi-line cell
- p\_h number default 5: Height of the cells

Return: number: Height of row

## GetTillingPatternColor

Type: Function

Description: Gets the color of filling pattern for objects.

Version: v1.1.7

Parameters: -

Return: plpdf\_type.t\_color: Pattern filling color

## GetTillingPatternName

Type: Function

Description: Gets the name of filling pattern for objects.

Version: v1.1.7

Parameters: -

Return: varchar2

## GetCellMinHeight

Type: Function

Description: Gets the minimum cell height (uses current font).

Version: v2.1.1

Parameters: -

Return: number

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## GetCellMinHeightFont

Type: Function

Description: Gets the minimum cell height, font is parameter.

Version: v2.3.0

Parameters:

- p\_family varchar2 default null: Font type, null means current font family
  - o Helvetica (Arial, Sans Serif)
  - o Courier
  - o Times (Serif)
  - o Symbol
  - o ZapfDingBats
  - o If TTF fonts were added using the AddTTF procedure then they may be used here as well.
- p\_style varchar2 default null: Font style
  - o null: Regular
  - o B: Bold
  - o I: Italic
  - o U: Underline
  - o The styles may be combined (i.e. BI will be Bold and Italic)
- p\_size number default null: Font size, null means current font size

Return: number

## GetCellMinWidth

Type: Function

Description: Gets the minimum cell width (uses current font).

Version: v2.1.1

Parameters:

- p\_txt varchar2: Text for calculating width

Return: number

## GetCellMinWidthFont

Type: Function

Description: Gets the minimum cell width, font is parameter.

Version: v2.3.0

Parameters:

- p\_family varchar2 default null: Font type, null means current font family
  - o Helvetica (Arial, Sans Serif)
  - o Courier
  - o Times (Serif)
  - o Symbol
  - o ZapfDingBats
  - o If TTF fonts were added using the AddTTF procedure then they may be used here as well.
- p\_style varchar2 default null: Font style
  - o null: Regular
  - o B: Bold
  - o I: Italic
  - o U: Underline

# PL/PDF

- o The styles may be combined (i.e. BI will be Bold and Italic)
- p\_size number default null: Font size, null means current font size
- p\_txt varchar2: Text for calculating width

Return: number

## PrintCell

Type: Procedure

Description: Draws a rectangle cell with text inside. The rectangle may have a border and fill color specified.

Version: v2.3.0

Parameters:

- p\_w number default 0: Rectangle width, if 0 then the rectangle will extend till the right margin
- p\_h number default 0: Rectangle height
  - o 0: uses last cell height
  - o -1: uses minimum cell height
- p\_txt varchar2 default NULL: Text
- p\_border varchar2 default '0': Rectangle border
  - o 0: no border
  - o 1: outline border
  - o L: left side border
  - o T: top side border
  - o R: right side border
  - o B: bottom side border
  - o Or a combination of L, T, R and B
- p\_ln number default 0: Cursor position after the cell is printed
  - o 0: Beside the cell
  - o 1: New line
  - o 2: Under the cell
- p\_align varchar2 default NULL: Text alignment
  - o L: left
  - o R: right
  - o C:
  - o J: Force Justification
- p\_fill number default 0: Fill
  - o 0: no fill
  - o 1: fill with current fill color
- p\_link varchar2 default NULL: Link related to the text, can be a URL or an internal link ID
- p\_clipping number default 1: Clipping text
  - o 0: no clipping
  - o 1: clipping
- p\_vert\_align varchar2 default NULL: Text vertical alignment in cell
  - o T: top
  - o B: bottom

Return: -

## PrintImageCell

Type: Procedure

# PL/PDF

Description: Print an image with frame.

Version: v2.1.1

Parameters:

- p\_w number: Width of frame
- p\_h number: Height of frame
- p\_name varchar2: name of image
- p\_data blob: image
- p\_margin number default 0: margin size of frame
- p\_border varchar2 default '0': Rectangle border
  - o 0: no border
  - o 1: outline border
  - o L: left side border
  - o T: top side border
  - o R: right side border
  - o B: bottom side border
  - o Or a combination of L, T, R and B
- p\_ln number default 0: Cursor position after the cell is printed
  - o 0: Beside the cell
  - o 1: New line
  - o 2: Under the cell
- p\_fill number default 0: Fill
  - o 0: no fill
  - o 1: fill with current fill color
- p\_link varchar2 default NULL: URL or internal link ID
- p\_type varchar2 default null: when use Oracle InterMedia then ignore this param,when does not use Oracle InterMedia then JPG or PNG, null means JPG

Return: -

## **PrintFlowingText**

Type: Procedure

Description: Prints text continuously. Text is wrapped according to the right margin.

Version: v2.2.0

Parameters:

- p\_h number default 0: Height
- p\_txt varchar2 default null: Text
- p\_link varchar2 default null: URL or internal link ID
- p\_align varchar2 default NULL: Text alignment
  - o L: left
  - o R: right
  - o C:
  - o J: Force Justification
- p\_clipping number default 1: Clipping text
  - o 0: no clipping
  - o 1: clipping
- p\_lastline\_j varchar2 default 'L': justified text last line alignment
  - o L: left
  - o R: right
  - o C:
  - o J: Force Justification

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Return: -

## PrintFlowingTextLimit

Type: Procedure

Description: Prints text continuously. Text is wrapped according to the p\_min\_x and p\_max\_x.

Version: v2.2.0

Parameters:

- p\_h number default 0: Height
- p\_txt varchar2 default null: Text
- p\_link varchar2 default null: URL or internal link ID
- p\_min\_x number default 0: min X position, 0 means the limit is the left margin
- p\_max\_x number default 0: max X position, 0 means the limit is the right margin
- p\_align varchar2 default NULL: Text alignment
  - o L: left
  - o R: right
  - o C:
  - o J: Force Justification
- p\_clipping number default 1: Clipping text
  - o 0: no clipping
  - o 1: clipping
- p\_lastline\_j varchar2 default 'L': justified text last line alignment
  - o L: left
  - o R: right
  - o C:
  - o J: Force Justification

Return: -

## TextSplit

Type: function

Description: Splits text to a number of lines based on the width given

Version: v2.3.0

Parameters:

- p\_txt varchar2: Text
- p\_w number: Width of lines
- p\_indent number default null: First line Indent
- p\_use\_cell\_margins boolean default true: If true then calculates with cell margins
- p\_maxline number default 0: Maximum number of lines returned. If 0 then all lines will be returned.

Return: plpdf\_type.t\_text\_lines: Text as an array

## TextSplitFont

Type: function

Description: Splits text to a number of lines based on the width given, font is parameter

# PL/PDF

Version: v2.3.0

Parameters:

- p\_family varchar2 default null: Font type, null means current font family
  - o Helvetica (Arial, Sans Serif)
  - o Courier
  - o Times (Serif)
  - o Symbol
  - o ZapfDingBats
  - o If TTF fonts were added using the AddTTF procedure then they may be used here as well.
- p\_style varchar2 default null: Font style
  - o null: Regular
  - o B: Bold
  - o I: Italic
  - o U: Underline
  - o The styles may be combined (i.e. BI will be Bold and Italic)
- p\_size number default null: Font size, null means current font size
- p\_txt varchar2: Text
- p\_w number: Width of lines
- p\_indent number default null: First line Indent
- p\_use\_cell\_margins boolean default true: If true then calculates with cell margins
- p\_maxline number default 0: Maximum number of lines returned. If 0 then all lines will be returned.

Return: plpdf\_type.t\_text\_lines: Text as an array

## PrintMultiLineCell

Type: Procedure

Description: Draws a multi line cell.

Version: v2.1.0

Parameters:

- p\_w number default 0: Rectangle width, if 0 then the rectangle will extend till the right margin
- p\_h number default 0: Rectangle height
- p\_txt varchar2 default null: Text
- p\_border varchar2 default '0': Rectangle border
  - o 0: no border
  - o 1: outline border
  - o L: left side border
  - o T: top side border
  - o R: right side border
  - o B: bottom side border
  - o Or a combination of L, T, R and B
- p\_align varchar2 default 'J': Text alignment
  - o L: left
  - o R: right
  - o C: center
  - o J: force justification
- p\_fill number default 0: Fill
  - o 0: no fill

# PL/PDF

- o 1: fill with current fill color
- p\_maxline number default 0: Maximum number of lines displayed. If 0 then all lines will be displayed.
- p\_link varchar2 default NULL: Link related to the text, can be a URL or an internal link ID
- p\_clipping number default 1: Clipping text
  - o 0: no clipping
  - o 1: clipping
- p\_indent number default 0: First line Indent
- p\_ln number default 1: Cursor position after the cell is printed
  - o 0: Beside the cell
  - o 1: New line
  - o 2: Under the cell

Return: -

## PrintText

Type: Procedure

Description: Prints a text starting from the specified position.

Version: v1.2.4

Parameters:

- p\_x number: X coordinate for the start of the text
- p\_y number: Y coordinate for the start of the text
- p\_txt varchar2: Text

Return: -

## PutImage

Type: Procedure

Description: Inserts an image (JPG, BMP, PNG, etc.) from a BLOB variable into the current page. Important: When the source of image is a query, then need to use "FOR UPDATE" clause.

Version: v2.1.1

Parameters:

- p\_name varchar2: Image name or ID
- p\_data blob: Variable containing the image as binary data
- p\_x number: X coordinate of the image
- p\_y number: Y coordinate of the image
- p\_w number default 0: Image width, if 0 then the image is displayed in its actual width
- p\_h number default 0: Image height, if 0 then the image is displayed in its actual height
- p\_link varchar2 default NULL: URL or internal link ID
- p\_type varchar2 default null: when use Oracle InterMedia then ignore this param, when does not use Oracle InterMedia then JPG or PNG, null means JPG

Return: -

## PutLink

Type: Procedure

Description: Puts a link area on the page that point to an internal link.

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Version: v1.2.4

Parameters:

- p\_x number: X coordinate of the top left corner of the area
- p\_y number: Y coordinate of the top left corner of the area
- p\_w number: Link area width
- p\_h number: Link area height
- p\_link varchar2: Internal link ID returned by CrInternalLink

Return: -

## Row\_Print

Type: Procedure

Description: Prints a full row in the PDF document. The rows consist of multi-line cells. The row's height is set according to the largest cell.

Version: v2.1.0

Parameters:

- p\_data plpdf\_type.t\_row\_datas: Data shown in the cells
- p\_width plpdf\_type.t\_row\_widths: Width of the cells
- p\_align plpdf\_type.t\_row\_aligns: Alignment of the cells
- p\_h number default 5: Height of the cells
- p\_fill number default 0: Fill
  - o 0: no fill
  - o 1: fill with current fill color
- p\_min\_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p\_clipping number default 0: Clipping text
  - o 0: no clipping
  - o 1: clipping

Return: -

## Row\_Print2

Type: Procedure

Description: Prints a full row in the PDF document. The rows consist of multi-line cells. The row's height is set according to the largest cell.

Version: v2.1.0

Parameters:

- p\_data plpdf\_type.t\_row\_datas: Data shown in the cells
- p\_border plpdf\_type.t\_row\_borders: Border array of the cells
- p\_width plpdf\_type.t\_row\_widths: Width of the cells
- p\_align plpdf\_type.t\_row\_aligns: Alignment of the cells
- p\_style plpdf\_type.t\_row\_styles: Style of the cells
- p\_maxline plpdf\_type.t\_row\_maxlines: Maximum number of lines in a multi-line cell
- p\_h number default 5: Height of the cells
- p\_fill number default 0: Fill
  - o 0: no fill
  - o 1: fill with current fill color
- p\_min\_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p\_clipping number default 0: Clipping text

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- o 0: no clipping
- o 1: clipping

Return: -

## Row\_Print2

Type: Procedure

Description: Prints a full row in the PDF document. The rows consist of multi-line cells. The row's height is set according to the largest cell.

Version: v2.1.0

Parameters:

- p\_data plpdf\_type.t\_row\_datas: Data shown in the cells
- p\_border plpdf\_type.t\_row\_borders: Border array of the cells
- p\_width plpdf\_type.t\_row\_widths: Width of the cells
- p\_align plpdf\_type.t\_row\_aligns: Alignment of the cells
- p\_style plpdf\_type.t\_row\_styles: Style of the cells
- p\_maxline plpdf\_type.t\_row\_maxlines: Maximum number of lines in a multi-line cell
- p\_h number default 5: Height of the cells
- p\_fill Plpdf\_Type.t\_row\_filles: Fill colors
- p\_min\_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p\_clipping number default 0: Clipping text
  - o 0: no clipping
  - o 1: clipping

Return: -

## Row\_Print3

Type: Procedure

Description: Prints a full row in the PDF document. The rows consist of multi-line cells. The row's height is set according to the largest cell.

Version: v2.1.0

Parameters:

- p\_data plpdf\_type.t\_row\_datas: Data shown in the cells
- p\_border plpdf\_type.t\_row\_borders: Border array of the cells
- p\_width plpdf\_type.t\_row\_widths: Width of the cells
- p\_align plpdf\_type.t\_row\_aligns: Alignment of the cells
- p\_style plpdf\_type.t\_row\_styles: Style of the cells
- p\_maxline plpdf\_type.t\_row\_maxlines: Maximum number of lines in a multi-line cell
- p\_links plpdf\_type.t\_row\_links: Links of the cells
- p\_h number default 5: Height of the cells
- p\_fill number default 0: Fill
  - o 0: no fill
  - o 1: fill with current fill color
- p\_min\_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p\_clipping number default 0: Clipping text
  - o 0: no clipping
  - o 1: clipping

# PL/PDF

Return: -

## Row\_Print3

Type: Procedure

Description: Prints a full row in the PDF document. The rows consist of multi-line cells. The row's height is set according to the largest cell.

Version: v2.1.0

Parameters:

- p\_data plpdf\_type.t\_row\_datas: Data shown in the cells
- p\_border plpdf\_type.t\_row\_borders: Border array of the cells
- p\_width plpdf\_type.t\_row\_widths: Width of the cells
- p\_align plpdf\_type.t\_row\_aligns: Alignment of the cells
- p\_style plpdf\_type.t\_row\_styles: Style of the cells
- p\_maxline plpdf\_type.t\_row\_maxlines: Maximum number of lines in a multi-line cell
- p\_links plpdf\_type.t\_row\_links: Links of the cells
- p\_h number default 5: Height of the cells
- p\_fill Plpdf\_Type.t\_row\_filles: Fill color
- p\_min\_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p\_clipping number default 0: Clipping text
  - o 0: no clipping
  - o 1: clipping

Return: -

## Row\_Print4

Type: Procedure

Description: Prints a full row in the PDF document. The rows consist of multi-line cells. The row's height is set according to the largest cell.

Version: v2.1.0

Parameters:

- p\_data plpdf\_type.t\_row\_datas: Data shown in the cells
- p\_width plpdf\_type.t\_row\_widths: Width of the cells
- p\_align plpdf\_type.t\_row\_aligns: Alignment of the cells
- p\_font plpdf\_type.t\_row\_fonts: Font of the cells (Family is required)
- p\_h number default 5: Height of the cells
- p\_fill number default 0: Fill
  - o 0: no fill
  - o 1: fill with current fill color
- p\_min\_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p\_clipping number default 0: Clipping text
  - o 0: no clipping
  - o 1: clipping

Return: -

## Row\_Print4

Type: Procedure

# PL/PDF

Description: Prints a full row in the PDF document. The rows consist of multi-line cells. The row's height is set according to the largest cell.

Version: v2.1.0

Parameters:

- p\_data plpdf\_type.t\_row\_datas: Data shown in the cells
- p\_border plpdf\_type.t\_row\_borders: Border array of the cells
- p\_width plpdf\_type.t\_row\_widths: Width of the cells
- p\_align plpdf\_type.t\_row\_aligns: Alignment of the cells
- p\_font plpdf\_type.t\_row\_fonts: Font of the cells (Family is required)
- p\_maxline plpdf\_type.t\_row\_maxlines: Maximum number of lines in a multi-line cell
- p\_h number default 5: Height of the cells
- p\_fill number default 0: Fill
  - o 0: no fill
  - o 1: fill with current fill color
- p\_min\_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p\_clipping number default 0: Clipping text
  - o 0: no clipping
  - o 1: clipping

Return: -

## Row\_Print4

Type: Procedure

Description: Prints a full row in the PDF document. The rows consist of multi-line cells. The row's height is set according to the largest cell.

Version: v2.1.0

Parameters:

- p\_data plpdf\_type.t\_row\_datas: Data shown in the cells
- p\_border plpdf\_type.t\_row\_borders: Border array of the cells
- p\_width plpdf\_type.t\_row\_widths: Width of the cells
- p\_align plpdf\_type.t\_row\_aligns: Alignment of the cells
- p\_font plpdf\_type.t\_row\_fonts: Font of the cells (Family is required)
- p\_maxline plpdf\_type.t\_row\_maxlines: Maximum number of lines in a multi-line cell
- p\_links plpdf\_type.t\_row\_links: Links of the cells
- p\_h number default 5: Height of the cells
- p\_fill number default 0: Fill
  - o 0: no fill
  - o 1: fill with current fill color
- p\_min\_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p\_clipping number default 0: Clipping text
  - o 0: no clipping
  - o 1: clipping

Return: -

## Row\_Print4

Type: Procedure

# PL/PDF

Description: Prints a full row in the PDF document. The rows consist of multi-line cells. The row's height is set according to the largest cell.

Version: v2.1.0

Parameters:

- p\_data plpdf\_type.t\_row\_datas: Data shown in the cells
- p\_border plpdf\_type.t\_row\_borders: Border array of the cells
- p\_width plpdf\_type.t\_row\_widths: Width of the cells
- p\_align plpdf\_type.t\_row\_aligns: Alignment of the cells
- p\_font plpdf\_type.t\_row\_fonts: Font of the cells (Family is required)
- p\_maxline plpdf\_type.t\_row\_maxlines: Maximum number of lines in a multi-line cell
- p\_h number default 5: Height of the cells
- p\_fill Plpdf\_Type.t\_row\_filles: Fill color
- p\_min\_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p\_clipping number default 0: Clipping text
  - o 0: no clipping
  - o 1: clipping

Return: -

## Row\_Print4

Type: Procedure

Description: Prints a full row in the PDF document. The rows consist of multi-line cells. The row's height is set according to the largest cell.

Version: v2.1.0

Parameters:

- p\_data plpdf\_type.t\_row\_datas: Data shown in the cells
- p\_border plpdf\_type.t\_row\_borders: Border array of the cells
- p\_width plpdf\_type.t\_row\_widths: Width of the cells
- p\_align plpdf\_type.t\_row\_aligns: Alignment of the cells
- p\_font plpdf\_type.t\_row\_fonts: Font of the cells (Family is required)
- p\_maxline plpdf\_type.t\_row\_maxlines: Maximum number of lines in a multi-line cell
- p\_links plpdf\_type.t\_row\_links: Links of the cells
- p\_h number default 5: Height of the cells
- p\_fill Plpdf\_Type.t\_row\_filles: Fill colors
- p\_min\_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p\_clipping number default 0: Clipping text
  - o 0: no clipping
  - o 1: clipping

Return: -

## SetCellMargin

Type: Procedure

Description: Sets the cell margin size.

Version: v1.2.4

Parameters:

- p\_margin number: Margin size

Return: -

## **SetCellBottomMargin**

Type: Procedure

Description: Sets the cell bottom margin size.

Version: v2.1.1.0

Parameters:

- p\_margin number: Margin size

Return: -

## **SetCellLeftMargin**

Type: Procedure

Description: Sets the cell left margin size.

Version: v2.1.1.0

Parameters:

- p\_margin number: Margin size

Return: -

## **SetCellRightMargin**

Type: Procedure

Description: Sets the cell right margin size.

Version: v2.1.1.0

Parameters:

- p\_margin number: Margin size

Return: -

## **SetCellTopMargin**

Type: Procedure

Description: Sets the cell top margin size.

Version: v2.1.1.0

Parameters:

- p\_margin number: Margin size

Return: -

## **SetColor4Drawing**

Type: Procedure

Description: Sets the line color for objects (line, rectangle, circle etc.) inserted after this statement. Colors must be specified according to the RGB pallet.

Version: v1.2.4

Parameters:

- p\_r number: Red component code, can be between 0 and 255

- p\_g number default -1: Green component code, can be between 0 and 255

- p\_b number default -1: Blue component code, can be between 0 and 255

Return: -

# PL/PDF

## SetColor4Drawing

Type: Procedure

Description: Sets the line color for objects (line, rectangle, circle etc.) inserted after this statement. Colors must be specified according to the RGB pallet.

Version: v1.1.6

Parameters:

- p\_color plpdf\_type.t\_color: color

Return: -

## SetColor4Filling

Type: Procedure

Description: Sets the fill color for objects inserted after this statement. Colors must be specified according to the RGB pallet.

Version: v1.2.4

Parameters:

- p\_r number: Red component code, can be between 0 and 255

- p\_g number default -1: Green component code, can be between 0 and 255

- p\_b number default -1: Blue component code, can be between 0 and 255

Return: -

## SetColor4Filling

Type: Procedure

Description: Sets the fill color for objects inserted after this statement. Colors must be specified according to the RGB pallet.

Version: v1.1.6

Parameters:

- p\_color plpdf\_type.t\_color: color

Return: -

## SetColor4Text

Type: Procedure

Description: Sets the text color for objects inserted after this statement. Colors must be specified according to the RGB pallet.

Version: v1.2.4

Parameters:

- p\_r number: Red component code, can be between 0 and 255

- p\_g number default -1: Green component code, can be between 0 and 255

- p\_b number default -1: Blue component code, can be between 0 and 255

Return: -

## SetColor4Text

Type: Procedure

Description: Sets the text color for objects inserted after this statement. Colors must be specified according to the RGB pallet.

Version: v1.1.6

# PL/PDF

## Parameters:

- p\_color plpdf\_type.t\_color: color

Return: -

## **SetDashPattern**

Type: Procedure

Description: Sets the dash pattern for lines inserted after this statement. Call the procedure without parameter to restore normal drawing.

Version: v1.2.4

## Parameters:

- p\_line number default null: length of dashes
- p\_noline number default null: length of gaps

Return: -

## **setJS**

Type: Procedure

Description: Add JavaScript inside the PDF. See Acrobat JavaScript Reference.

Version: v2.1.0

Parameters: -

Return: -

## **SetLineWidth**

Type: Procedure

Description: Sets the thickness of lines drawn after this statement. If no thickness is set then it is 0.2 mm by default.

Version: v2.3.0

## Parameters:

- p\_width number: Line thickness

Return: -

## **SetLinkDest**

Type: Procedure

Description: Sets the destination page and position for the internal link.

Version: v1.2.4

## Parameters:

- p\_link number: Internal link ID returned by CrInternalLink
- p\_y number default 0: Y position on the page, if -1 then the current Y coordinate, if 0 then the top of the page
- p\_page number default -1: Page number, if -1 then the current page

Return: -

## **SetPrintFont**

Type: Procedure

Description: Sets the font and its properties.

Version: v1.2.4

Parameters:

# PL/PDF

- p\_family varchar2 default NULL: Font type
  - o Helvetica (Arial, Sans Serif)
  - o Courier
  - o Times (Serif)
  - o Symbol
  - o ZapfDingBats
  - o If TTF fonts were added using the AddTTF procedure then they may be used here as well.
- p\_style varchar2 default NULL: Font style
  - o null: Regular
  - o B: Bold
  - o I: Italic
  - o U: Underline
  - o The styles may be combined (i.e. BI will be Bold and Italic)
- p\_size number default 0: Font size, by default it is 12

Return: -

## SetPrintFontSize

Type: Procedure

Description: Sets the font size. All other font properties remain unchanged.

Version: v1.2.4

Parameters:

- p\_size number: Font size

Return: -

## SetRotate

Type: Procedure

Description: Sets the degree of rotation. Text and images can both be rotated.

Version: v1.2.4

Parameters:

- p\_angle number: Angle/degree of rotation
- p\_x number default -1: X coordinate of the rotation point, if -1 then the X coordinate of the cursor
- p\_y number default -1: Y coordinate of the rotation point, if -1 then the Y coordinate of the cursor

Return: -

## SetTillingPattern

Type: Procedure

Description: Sets the fill pattern for objects inserted after this statement.

Version: v1.2.4

Parameters:

- p\_name varchar2: name of pattern, see [CrTillingPattern](#)
- p\_color plpdf\_type.t\_color: color of "graphical figures"

Return: -

## StartClipping

# PL/PDF

Type: Procedure

Description: Starts a clipping frame. The clipping limits the region that can be paint. The clipping affects forobjects wich located between StartClipping and EndClipping.

Version: v2.3.0

Parameters:

- p\_x number: X coordinate for the start of the clipping frame
- p\_y number: Y coordinate for the start of the clipping frame
- p\_w number: height of clipping frame
- p\_h number: width of clipping frame
- p\_end\_prev boolean default true: closes previous clipping before start a new clipping

Return: -

## StartOpacity

Type: Procedure

Description: Starts a transparency. The transparency affects forobjects wich located between StartOpacity and EndOpacity.

Version: v2.1.0

Parameters:

- p\_val number: can be a value from 0.0 - 1.0. A lower value makes the element more transparent.

Return: -

## StartOptCont

Type: Procedure

Description: Start an optional content.

Version: v2.1.0

Parameters:

- p\_name varchar2: name of optional content
- p\_state boolean default true: dafault state is visible or invisible
- p\_ui\_order boolean default true: insert into the state array
- p\_print boolean default true: printed out

Return: -

## Table Of Contents Commands

### AddTOCItem

Type: Procedure

Description: Add Table of Contents item.

Version: v1.4.0

Parameters:

- p\_txt varchar2: label of TOC item
- p\_level number default 0: level, 0 is the highest level
- p\_y number default -1: Y position on the page, if -1 then the current Y coordinate, if 0 then the top of the page
- p\_page number default -1: Page number, if -1 then the current page
- p\_add\_link boolean default true: create link from TOC item to page
- p\_add\_bookmark boolean default false: create bookmark for TOC item

Return: -

### AddTOC

Type: Procedure

Description: Construct Table of Contents.

Version: v1.4.0

Parameters:

- p\_item\_height number default null: height of TOC item cell
- p\_stop\_footer boolean default true: do not print footer (by executing the footer procedure) in TOC
- p\_title\_font\_family varchar2 default null: font family of title text
- p\_title\_font\_style varchar2 default null: font style (bold, italic, etc.) of title text
- p\_title\_font\_size number default 0: font size of title text
- p\_title\_height number default null: height of title's cell
- p\_title\_text varchar2 default null: title of TOC if title is null then no title will be printed
- p\_title\_body\_gap number default 0: gap between title and TOC items
- p\_item\_font\_family varchar2 default null: font family of TOC items
- p\_item\_font\_style varchar2 default null: font style of TOC items
- p\_item\_font\_size number default 0: font size of TOC items
- p\_level\_indent number default 0: indent size for levels
- p\_separator varchar2 default ' ': filler between TOC item and page number
- p\_move\_to number default 0: move TOC pages to a new page number in PDF
- p\_custom\_proc varchar2 default null: if a custom procedure is used for creating TOC then it is the name of procedure

Return: -

### InTOC

Type: Function

Description: Is current position inside TOC.

Version: v1.4.0

# PL/PDF

Parameters: -

Return: boolean: Current position

## GetTOCPageNum

Type: Function

Description: If actual position is inside TOC then returns page number (first page of TOC returns 1).

Version: v1.4.0

Parameters: -

Return: number: actual position

## PrintTOCItem

Type: Procedure

Description: Print a TOC Item into the PDF (for creating custom TOC).

Version: v1.4.0

Parameters:

- p\_item plpdf\_type.tr\_toc: TOC Item
- p\_toc\_level\_indent number default 0: indent size for levels
- p\_toc\_item\_height number: height of TOC item cell
- p\_toc\_separator varchar2 default ' ': filler between TOC item and page number

Return: -

## PrintTOCItem1

Type: Procedure

Description: Print a TOC Item into the PDF with settings specified in [AddTOC](#)(for creating custom TOC).

Version: v1.4.0

Parameters:

- p\_item plpdf\_type.tr\_toc: TOC Item

Return: -

## TOCInsertGap

Type: Procedure

Description: Insert gap between title and items (for creating custom TOC).

Version: v1.4.0

Parameters:

- p\_toc\_title\_body\_gap number: size of gap

Return: -

## TOCInsertGap1

Type: Procedure

Description: Insert gap between title and items with settings specified in [AddTOC](#)(for creating custom TOC).

Version: v1.4.0

Parameters: -

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Return: -

## PrintTOCTitle

Type: Procedure

Description: Insert title section in TOC (for creating custom TOC).

Version: v1.4.0

Parameters:

- p\_toc\_title\_text varchar2 default null: text of title
- p\_toc\_title\_height number default null: height of title's cell

Return: -

## PrintTOCTitle1

Type: Procedure

Description: Insert title section in TOC with settings specified in [AddTOC](#)(for creating custom TOC).

Version: v1.4.0

Parameters: -

Return: -

## GetTOCItems

Type: Function

Description: Returns array of TOC items (for creating custom TOC).

Version: v1.4.0

Parameters: -

Return: plpdf\_type.t\_toc

## InsMoveTOC

Type: Procedure

Description: Move TOC to specified page number.

Version: v1.4.0

Parameters:

- p\_move\_to number: page number

Return: -

## InsMoveTOC1

Type: Procedure

Description: Move TOC to specified page number using p\_move\_to parameter in [AddTOC](#).

Version: v1.4.0

Parameters: -

Return: -

## Template Related Commands

### InsTemplate

Type: Function

Description: Insert a template into the pdf.

Version: v1.4.0

Parameters:

- p\_tpl: template data

Return: number: template ID

### UseTemplate

Type: Procedure

Description: Use a template.

Version: v1.4.0

Parameters:

- p\_tplidx number: template ID
- p\_fittpage boolean default true: fit template to page size

Return: -

### DefaultTemplate

Type: Procedure

Description: Set template for all new page. Remove template when p\_tplidx is null.

Version: v2.3.1

Parameters:

- p\_tplidx number: template ID
- p\_fittpage boolean default true: fit template to page size

Return: -

## Acroform Related Commands

### AcroForm\_AddCheckBoxField

Type: Procedure

Description: AcroForm: Add CheckBoxField

Version: v1.6.0

Parameters:

- p\_name varchar2: identifier of object
- p\_label varchar2 default null: Caption of button
- p\_checked boolean default false: If set, the checkbox is checked
- p\_default\_checked boolean default false: The default value to which the field reverts when a reset-form action is executed
- p\_read\_only boolean default false: If set, the user may not change the value of the field
- p\_required boolean default false: If set, the field must have a value at the time it is exported by a submit-form action
- p\_noexport boolean default false: If set, the field must not be exported by a submitform action
- p\_print boolean default false: If set, print the field when the page is printed
- p\_x number: X coordinate for the field
- p\_y number: Y coordinate for the field
- p\_height number: The height of the field
- p\_gap number default 0: gap between graphical symbol and text
- p\_fill\_color plpdf\_type.t\_color default plpdf\_const.White: color for filling the field
- p\_hint varchar2 default null: The user name to be used when generating error or status messages for the field

Return: -

### AcroForm\_AddChoiceField

Type: Procedure

Description: AcroForm: Add ChoiceField

Version: v1.6.0

Parameters:

- p\_name varchar2: identifier of object
- p\_values plpdf\_type.t\_opt\_array: value set of field
- p\_value varchar2 default null: value of field
- p\_default\_value varchar2 default null: The default value to which the field reverts when a reset-form action is executed
- p\_combo boolean default false: If set, the field is a combo box; if clear, the field is a list box
- p\_edit boolean default false: If set, the combo box includes an editable text box as well as a drop list
- p\_short boolean default false: If set, the field's option items should be sorted alphabetically
- p\_read\_only boolean default false: If set, the user may not change the value

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of the field

- `p_required` boolean default false: If set, the field must have a value at the time it is exported by a submit-form action
- `p_noexport` boolean default false: If set, the field must not be exported by a submitform action
- `p_print` boolean default false: If set, print the field when the page is printed
- `p_x` number: X coordinate for the field
- `p_y` number: Y coordinate for the field
- `p_width` number: The width of the field
- `p_height` number: The height of the field
- `p_fill_color` `plpdf_type.t_color` default `plpdf_const.White`: color for filling the field
- `p_border_width` number default 0: width of border of the field
- `p_border_color` `plpdf_type.t_color` default `plpdf_const.Black`: color of border
- `p_font_size_auto` boolean default false: If set, the text's size is automatic else use size of current font.
- `p_hint` `varchar2` default null: The user name to be used when generating error or status messages for the field

Return: -

## AcroForm\_AddPushbutton

Type: Procedure

Description: AcroForm: Add Push button

Version: v1.6.0

Parameters:

- `p_name` `varchar2`: identifier of object
- `p_label` `varchar2` default null: Caption of button
- `p_x` number: X coordinate for the field
- `p_y` number: Y coordinate for the field
- `p_width` number: The width of the field
- `p_height` number: The height of the field
- `p_action` `varchar2` default null: supported actions
  - o `plpdf_const.button_action_submitform`: A submit-form action transmits the names and values of selected interactive formfields to a specified uniform resource locator (URL), presumably the address of aWorld Wide Web server that will process them and send back a response.
  - o `plpdf_const.button_action_resetform`: A reset-form action resets selected interactive form fields to their default values.
  - o `plpdf_const.button_action_javascript`: A JavaScript action causes a script to be compiled and executed by the JavaScript interpreter.
- `p_url` `varchar2` default null: when action is `plpdf_const.button_action_submitform` A URL specification giving the uniform resourcelocator (URL) of the script at the Web server that will process the submission.
- `p_submitformat` `varchar2` default null: when action is `plpdf_const.button_action_submitform` format of submitted data
  - o `plpdf_const.submit_format_html`: HTML Form format
  - o `plpdf_const.submit_format_fdf`: Forms Data Format (FDF)
- `p_request` `varchar2` default null: when action is

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- o plpdf\_const.button\_action\_submitform: form of request
- o plpdf\_const.submit\_request\_post: using an HTTP POST request
- o plpdf\_const.submit\_request\_get: using an HTTP GET request
- p\_IncludeNoValueFields boolean default false: If clear, fields without a value are not submitted.
- p\_SubmitCoordinates boolean default false: when action is plpdf\_const.button\_action\_submitform: If set, the coordinates of the mouse click that caused the submit-form action are transmitted as part of the form data.
- p\_javascript varchar2 default null: when action is plpdf\_const.button\_action\_javascript: A string containing the JavaScript script to be executed.
- p\_print boolean default false: If set, print the field when the page is printed
- p\_fill\_color plpdf\_type.t\_color default plpdf\_const.White: color for filling the field
- p\_border\_width number default 0: width of border of the field
- p\_border\_color plpdf\_type.t\_color default plpdf\_const.Black: color of border
- p\_font\_size\_auto boolean default false: If set, the text's size is automatic else use size of current font.
- p\_hint varchar2 default null: The user name to be used when generating error or status messages for the field

Return: -

## AcroForm\_AddRadiobuttonField

Type: Procedure

Description: AcroForm: Add RadiobuttonField

Version: v1.6.0

Parameters:

- p\_name varchar2: identifier of object
- p\_values plpdf\_type.t\_radiobutton\_array: value set of field
- p\_value varchar2 default null: value of field
- p\_default\_value varchar2 default null: The default value to which the field reverts when a reset-form action is executed
- p\_read\_only boolean default false: If set, the user may not change the value of the field
- p\_required boolean default false: If set, the field must have a value at the time it is exported by a submit-form action
- p\_NoToggleToOff boolean default false: If set, exactly one radio button must be selected at all times
- p\_noexport boolean default false: If set, the field must not be exported by a submitform action
- p\_print boolean default false: If set, print the field when the page is printed
- p\_height number: The height of the field
- p\_gap number default 0: gap between graphical symbol and text
- p\_fill\_color plpdf\_type.t\_color default plpdf\_const.White: color for filling the field
- p\_hint varchar2 default null: The user name to be used when generating error or status messages for the field

Return: -

## AcroForm\_AddTextField

Type: Procedure

Description: AcroForm: Add TextField

Version: v1.6.0

Parameters:

- p\_name varchar2: identifier of object
- p\_value varchar2 default null: value of field
- p\_default\_value varchar2 default null: The default value to which the field reverts when a reset-form action is executed
- p\_maxlength number default 0: The maximum length of the field's text, in characters
- p\_multiline boolean default false: If set, the field may contain multiple lines of text
- p\_password boolean default false: If set, the field is intended for entering a secure password that should not be echoed visibly to the screen
- p\_read\_only boolean default false: If set, the user may not change the value of the field
- p\_required boolean default false: If set, the field must have a value at the time it is exported by a submit-form action
- p\_noexport boolean default false: If set, the field must not be exported by a submitform action
- p\_print boolean default false: If set, print the field when the page is printed
- p\_x number: X coordinate for the field
- p\_y number: Y coordinate for the field
- p\_width number: The width of the field
- p\_height number: The height of the field
- p\_align varchar2 default null: Text alignment
  - o L: left (default)
  - o R: right
  - o C: center
- p\_fill\_color plpdf\_type.t\_color default plpdf\_const.White: color for filling the field
- p\_border\_width number default 0: width of border of the field
- p\_border\_color plpdf\_type.t\_color default plpdf\_const.Black: color of border
- p\_font\_size\_auto boolean default false: If set, the text's size is automatic else use size of current font.
- p\_hint varchar2 default null: The user name to be used when generating error or status messages for the field

Return: -

## setDigSig

Type: Procedure

Description: Set digital signature appearances.

Version: v2.5.0

Parameters:

- p\_Name varchar2 default null: The name of the person or authority signing

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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\_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.

Return: -

## Version History

### 23-JUL-2008, v2.0.0

- SetDocDisplayMode: doc extended
- native PNG support (PrintImageCell, PutImage p\_type)
- use without InterMedia
- PrintFlowingTextLimit: bad charter handling fixed
- PrintMultiLineCell: bad charter handling fixed
- compress: LZW without Java
- SetCompress: new parameter: p\_method
- plpdf\_const package: new entries
- PutImage: new parameter: p\_type
- PrintImageCell: new parameter: p\_type

### 16-MAR-2009, v2.1.0

- AcroForm\_AddPushbutton.p\_fill\_color: handle null
- StartOpacity: new procedure
- EndOpacity: new procedure
- StartOptCont: new procedure
- EndOptCont: new procedure
- setJS: multiline support
- GetPrintFontStyle: fix underline
- SetCellLeftMargin: new procedure
- SetCellRightMargin: new procedure
- SetCellTopMargin: new procedure
- SetCellBottomMargin: new procedure
- GetCellLeftMargin: new procedure
- GetCellRightMargin: new procedure
- GetCellTopMargin: new procedure
- GetCellBottomMargin: new procedure
- PrintFlowingTextLimit: p\_clipping: new parameter
- PrintFlowingText: p\_clipping: new parameter
- Row\_Print: p\_clipping: new parameter
- Row\_Print2: p\_clipping: new parameter
- Row\_Print3: p\_clipping: new parameter
- Row\_Print4: p\_clipping: new parameter

### 01-AUG-2009, v2.2.0

- setRTOL: new procedure
- GetPageLeftSpace: new function
- TextSplit: new function
- GetPageLeftSpace: new function
- GetPageSpace: new function
- setRTOL: new procedure
- GetCellMinHeight: new function
- GetCellMinWidth: new function

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- extended image support: plpdf\_img2 package
- supported image types: JPEG, GIF, PNG
- merged plpdf\_text package: plpdf\_text2
- native TTF parser: plpdf\_ttf\_parser, plpdf\_gl
- PrintFlowingTextLimit: new parameter
- PrintFlowingText: new parameter

## 22-MAR-2010, v2.3.0

- CertKeyCheck: new function
- GetLeftMargin: new function
- GetRightMargin: new function
- GetTopMargin: new function
- GetBottomMargin: new function
- GetHeaderHeight: new function
- GetFooterHeight: new function
- GetTextWidthFont: new function
- AddScreenAnnotURL: new procedure
- AddScreenAnnotFile: new procedure
- GetCellMinHeightFont: new function
- GetCellMinWidthFont: new function
- PrintCell: new parameter: p\_vert\_align
- TextSplit: new parameter: p\_maxline
- TextSplitFont: new function
- SetLineWidth: fixed
- StartClipping: new parameter: p\_end\_prev
- SetPDFAlB: new procedure

## 07-OCT-2010, v2.3.1

- DefaultTemplate: new procedure

## 01-DEC-2010, v2.4.0

- setDigSig: new procedure

## 01-MAR-2011, v2.5.0

- new: advanced compress, min req is 10gR2
- new: advanced protection (RC4), min req is 10gR2
- fix: PDF/A with protection
- new: SetRotatePages procedure
- fix: DrawPolygon extend length of string
- fix: setDigSig set parameters default value