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PL/PDF
User's Guide
v1.7.0

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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: www.plpdf.com/23-927.html

Code Examples

PL/PDF code examples can be found at: <http://plpdf.com/23-4766.html>

Contact

Contact us at: info@plpdf.com

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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 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

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Administrative Commands

AddCJKFont

Type: procedure

Description: Add CJK (Chinese/Japanese/Korean see <http://en.wikipedia.org/wiki/CJK>) font. The added font becomes available to the **SetPrintFont** procedure.

Parameters:

- p_name varchar2: name of font
 - o 'HeiseiKakuGo-W5': Japanese
 - o 'HYSMyeongJoStd-Medium-Acro': Korean
 - o 'MSungStd-Light-Acro': Chinese
 - o 'STSongStd-Light-Acro': Chinese

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.

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.

Parameters:

- p_orientation varchar2 default 'P': Orientation
 - o P: portrait
 - o L: landscape
- p_unit varchar2 default 'mm': Unit of measure. All the subsequent width or height parameters use this value as the unit of measure.
 - o pt: point (=1)
 - o mm: millimeter (=72/25.4)
 - o cm: centimeter (=72/2.54)
 - o in: inch (=72)
- p_format varchar2 default 'A4': Page format



- o a3: 841.89*1190.55
- o a4: 595.28*841.89
- o a5: 420.94*595.28
- o letter: 612*792
- o legal: 612*1008

Return: -

Init1

Type: procedure

Description: Initializes generator program variables.

Parameters:

- p_orientation varchar2 default 'P': Orientation
 - o P: portrait
 - o L: landscape
- p_unit varchar2 default 'mm': Unit of measure. All the subsequent width or height parameters use this value as the unit of measure.
 - o pt: point (=1)
 - o mm: millimeter (=72/25.4)
 - o cm: centimeter (=72/2.54)
 - o in: inch (=72)
- p_format plpdf_type.t_pageformat: see plpdf_const package for predefined pageformats

Return: -

GetVersion

Type: function

Description: Gets the version number of pl/pldf package

Parameters: -

Return: varchar2: number of current version

nopAlias

Type: procedure

Description: Defines the page number alias.

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: -

SendDoc

Type: procedure



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

Parameters:

- p_blob OUT NOCOPY BLOB: the generated document

Return: -

SetAllMargin

Type: procedure

Description: Sets the margin size.

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.

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.

Note: Compression only happens if Java components are available. When using Oracle without Java (for example Oracle XE), the resulting PDF file will not be compressed.

Parameters:

- p_compress boolean: Compression
 - o True: Enable
 - o False: Disable



Return: -

SetDocAuthor

Type: procedure

Description: Sets the document author.

Parameters:

- p_author varchar2: Document author

Return: -

SetDocCreator

Type: procedure

Description: Sets the document creator.

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).

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

Return: -

SetDocKeywords

Type: procedure

Description: Sets the document keywords.

Parameters:

- p_keywords varchar2: Keyword list

Return: -



SetDocSubject

Type: procedure

Description: Sets the document subject.

Parameters:

- p_subject varchar2: Document subject

Return: -

SetDocTitle

Type: procedure

Description: Sets the document title.

Parameters:

- p_title varchar2: Document title

Return:

SetEncoding

Type: procedure

Description: Sets Adobe Core character encoding (default code is cp1252) or Unicode TTF embending (AL32UTF8 database) with 'utf16'.

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 koi8_r
 - o koi8_u
 - o utf16: Unicode database (AL32UTF8) with Unicode TTF embending.

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.

Parameters:

- p_proc_name varchar2: Page footer procedure name
- p_height number: height of footer section

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.

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.

Parameters:

- p_margin number: Margin size

Return: -

SetNOLastpageProcName

Type: procedure

Description: Sets the procedure name that runs before a page is closed. The procedure does not run for the last page. The program name passed as a parameter must be a stand-alone procedure.

Parameters:

- p_proc_name varchar2: Procedure name

Return: -



SetPageNoEnd

Type: procedure

Description: Sets end of page numbering to the current page, see **SetPageNoStart**.

Parameters: -

Return: -

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SetPageNoStart

Type: procedure

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

Parameters: -

Return: -

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SetProtection

Type: procedure

Description: Allows to protect the PDF document.

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: -

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SetRightMargin

Type: procedure

Description: Sets the right margin size.

Parameters:

- p_margin number: Margin size

Return: -

4

SetTopMargin

Type: procedure

Description: Sets the top margin size.

Parameters:

- p_margin number: Margin size

4



Return: -

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Navigation and Formatting Commands

CheckPageBreak

Type: function

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

Parameters:

- p_h number: height for check page overflow
- p_newpage boolean default true: do NewPage procedure

Return: boolean:

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

CurrentPageNumber

Type: function

Description: Returns the page number of the current page.

Parameters:

Return: number: Page number of the current page

GetCurrentX

Type: function

Description: Gets the X coordinate of the cursor

Parameters: -

Return: number: X coordinate

GetCurrentY

Type: function

Description: Gets the Y coordinate of the cursor.

Parameters: -

Return: number: Y coordinate

GetPageAvailableHeight

Type: function

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



Parameters: -

Return: number

GetPageAvailableWidth

Type: function

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

Parameters: -

Return: number

GetPageHeight

Type: function

Description: Gets the height of actual page.

Parameters: -

Return: number

GetPageRightSpace

Type: function

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

Parameters: -

Return: number

GetPageWidth

Type: function

Description: Gets the width of actual page.

Parameters: -

Return: number

GetPrintFontName

Type: function

Description: Get the current font type.

Parameters: -

Return: varchar2



GetPrintFontStyle

Type: function

Description: Get the current font style.

Parameters: -

Return: varchar2

GetPrintFontSize

Type: function

Description: Get the current font size.

Parameters: -

Return: varchar2

GetScaleFactor

Type: function

Description: Get the current scale factor.

Parameters: -

Return: number

GetTextWidth

Type: function

Description: Returns the width of the parameter text.

Parameters:

- p_s varchar2: Text

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

LineBreak

Type: procedure

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

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.

Parameters:

- p_orientation varchar2 default NULL: Page orientation
 - o P: Portrait
 - o L: Landscape

Return: -

SetCurrentX

Type: procedure

Description: Places the cursor at the X coordinate

Parameters:

- p_x number default 0: X coordinate

Return: -

SetCurrentXY

Type: procedure

Description: Places the cursor at the X and Y coordinate

Parameters:

- p_x number: X coordinate
- p_y number: Y coordinate

Return: -

SetCurrentY

Type: procedure

Description: Places the cursor at the Y coordinate

Parameters:

- p_y number default 0: Y coordinate
- p_cr boolean default true: X position returns to beginning of line

Return: -

Content Related Commands

AddLine2Pattern

Type: procedure

Description: Add a line to the pattern (see CrTillingPattern).

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: -

AddRect2Pattern

Type: procedure

Description: Add a rectangle to the pattern (see CrTillingPattern).

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: -

AddEllipse2Pattern

Type: procedure

Description: Add a ellipse to the pattern (see CrTillingPattern).

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: -

AddCircle2Pattern

Type: procedure

Description: Add a circle to the pattern (see CrTillingPattern).

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: -

AddPolygon2Pattern

Type: procedure

Description: Add a polygon to the pattern (see CrTillingPattern).

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: -

AddFileAnnot

Type: procedure

Description: Add File annotation to the current page.

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:
 - 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.

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.

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
 - 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.

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.

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: -

AttachFile

Type: procedure

Description: Attachs a file to the PDF document.

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).

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.

Parameters:

Return: number: The ID of the internal link

CrTilingPattern

Type: procedure

Description: Starts of define a "Tiling Pattern". Tiling patterns consist of a small graphical figure (called a pattern cell) that is replicated at fixed horizontal and vertical intervals to fill the area to be painted.

Add "graphical figure" to pattern:

- AddLine2Pattern: add a line to pattern
- AddRect2Pattern: add a rectangle to pattern
- AddEllipse2Pattern: add an ellipse to pattern
- AddCircle2Pattern: add a circle to pattern
- AddPolygon2Pattern: add a polygon to pattern

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

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.

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.

Parameters:

- 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: -

DrawPolygon

Type: procedure

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

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.

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: -

DrawSector

Type: procedure

Description: Draws a sector on the current page.

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

Return: -

EndClipping

Type: procedure

Description: see StartClipping.

Parameters: -

Return: -

GetImageProps

Type: function

Description: Returns with image properties.

Parameters: p_data blob: image

Return: plpdf_type.t_imageprops



GetCellMargin

Type: function

Description: Gets the cell margin size.

Parameters: -

Return: number

GetColor4Drawing

Type: function

Description: Gets the line color for objects.

Parameters: -

Return: plpdf_type.t_color

GetColor4Filling

Type: function

Description: Gets the filling color for objects.

Parameters: -

Return: plpdf_type.t_color

GetLineWidth

Type: function

Description: Gets the current line size.

Parameters: -

Return: number

GetRowHeight

Type: function

Description: Returns with height of row (see: Row_Print2).

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



GetTillingPatternColor

Type: function

Description: Gets the color of filling pattern for objects.

Parameters: -

Return: plpdf_type.t_color



GetTillingPatternName

Type: function

Description: Gets the name of filling pattern for objects.

Parameters: -

Return: varchar2



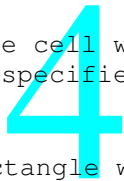
PrintCell

Type: procedure

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

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 borderOr 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: center
 - 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

Return: -

PrintFlowingText

Type: procedure

Description: Prints text continuously. Text is wrapped according to the p_min_x and p_max_x.

Parameters:

- p_h number: Height
- p_txt varchar2: 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

Return: -

PrintFlowingTextLimit

Type: procedure

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

Parameters:

- p_h number: Height
- p_txt varchar2: Text
- p_link varchar2 default NULL: URL or internal link ID

Return: -

PrintImageCell

Type: procedure

Description: Print an image with frame.

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
- 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

Return: -

PutLink

Type: procedure

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

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: -

PrintMultiLineCell

Type: procedure

Description: Draws a multi line cell.

Note: When using Oracle without Java (for example Oracle XE), only the use of standard JPG images is supported. PL/PDF uses Oracle InterMedia to convert images. Oracle InterMedia requires Java.

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: 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

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
 - 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: Indent

Return: -

PrintText

Type: procedure

Description:

Parameters: Prints a text starting from the specified position.

- 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.

Note: When the source of image is a query, then the "FOR UPDATE" clause must be used.

Also, when using Oracle without Java (for example Oracle XE), only the use of standard JPG images is supported. PL/PDF uses Oracle InterMedia to convert images. Oracle InterMedia requires Java.

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

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.

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 not use this parameter

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.

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 not use this parameter

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.

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 not use this parameter

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.

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

Return: -

SetCellMargin

Type: procedure

Description: Sets the cell margin size.

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.

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: -

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.

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.

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.

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.

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.

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.

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

Parameters:

- p_text varchar2: JavaScript source code.

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.

Parameters:

- p_width number: Line thickness

Return: -

SetLinkDest

Type: procedure

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

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.

Parameters:

- p_family varchar2 default NULL: Font type
 - o Helvetica (Arial, Sans Serif)
 - o Courier
 - o Times (Serif)
 - o Symbol
 - o ZapfDingBats

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

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.

Parameters:

- p_size number: Font size

Return: -

SetRotate

Type: procedure

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

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.

Parameters:

- p_name varchar2: name of pattern (see CrTillingPattern)
- p_color plpdf_type.t_color: color of "graphical figures"

Return: -

StartClipping

Type: procedure

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

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

Return: -



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Table Of Contents Commands

AddTOCItem

Type: procedure

Description: Add Table of Contents item.

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.

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.

Parameters: -

Return: boolean

GetTOCPageNum

Type: function

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

Parameters: -

Return: number

PrintTOCItem

Type: procedure

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

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)

Parameters:

- p_item plpdf_type.tr_toc: TOC Item

Return: -

TOCInsertGap

Type: procedure

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

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).

Parameters: -

Return: -

PrintTOCTitle

Type: procedure

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

Parameters:

- p_toc_title_text varchar2 default null: text of title
- p_toc_title_height number default null: height of title's cell
- p_level number default 0: level, 0 is the highest level

Return: -

PrintTOCTitle1

Type: procedure

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

Parameters: -

Return: -

GetTOCItems

Type: function

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

Parameters: -

Return: plpdf_type.t_toc

InsMoveTOC

Type: procedure

Description: Move TOC to specified page number.

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**.

Parameters: -

Return: -

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Template related Commands

InstTemplate

Type: function

Description: Insert a template into the pdf.

Parameters:

- p_tpl plpdf_type.tr_tpl_data: template data

Return: number (Template ID)

UseTemplate

Type: procedure

Description: Use a template.

Parameters:

- p_tplidx number: template ID
- p_fittopage boolean default true: fit template to page size

Return: -

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Acroform related Commands

An interactive form (sometimes referred to as an AcroForm) is a collection of fields for gathering information interactively from the user. A PDF document may contain any number of fields appearing on any combination of pages, all of which make up a single, global interactive form spanning the entire document.

AcroForm_AddTextField

Type: procedure

Description: Add TextField.

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_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_AddChoiceField

Type: procedure

Description: Add ChoiceField.

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 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: Add TextField.

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 form fields to a specified uniform resource locator (URL), presumably the address of a World 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 resource locator (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 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: Add RadiobuttonField.



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_AddCheckBoxField

Type: procedure

Description: Add CheckBoxField.

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: -

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Version History

18-MAY-2005, v1.1.0

- PutImage
 - o p_type parameter removed
 - o PutImage supports the following file formats:
 - JPEG/JFIF
 - BMP
 - GIF
 - TIFF
 - PNG

22-MAY-2005, v1.1.1

- PutImage
 - o Fixed a bug: image size calculation

29-MAY-2005, v1.1.2

- PrintMultiLineCell
 - o Fixed a bug: borders
- PutImage
 - o Fixed a bug: error messages

09-JUN-2005, v1.1.3

- PrintMultiLineCell
 - o New parameters:
 - p_link
 - p_clipping
- GetImageProps: new function
- PrintImageCell: new procedure
- GetRowHeight: new function
- Row_Print2
 - o Fixed a bug: handling of p_maxline

30-JUN-2005, v1.1.4

- SetColor4Text
 - o Fixed a bug: handling of blue color
- GetPageWidth: new function
- GetPageHeigh: new function
- GetPageAvailableWidth: new function
- GetPageAvailableHeigh: new function



15-JUL-2005, v1.1.5

- Page size increased to 2Gb

31-JUL-2005, v1.1.6

- SetCellMargin: new procedure
- GetCellMargin: new function
- plpdf_type.t_color: new type
- GetColor4Drawing: new function
- GetColor4Filling: new function
- Plpdf_Const: new package (contains colors)
- SetColor4Drawing: new function with t_color parameter
- SetColor4Filling: new function with t_color parameter
- SetColor4Text: new function with t_color parameter
- GetLineWidth: new function
- SetColor4Drawing
 - o Fixed a bug: handling of blue color

31-AUG-2005, v1.1.7

- SetDashPattern: new procedure
- plpdf_type.t_point: new type
- plpdf_type.t_points: new type
- plpdf_type.t_pageformat: new type
- DrawPolygon: new procedure
- Pattern handling
 - o CreateTillingPattern: new procedure
 - o AddLine2Pattern: new procedure
 - o AddRect2Pattern: new procedure
 - o AddEllipse2Pattern: new procedure
 - o AddCircle2Pattern: new procedure
 - o AddPolygon2Pattern: new procedure
 - o SetTillingPattern: new procedure
 - o GetTillingPatternName: new function
 - o GetTillingPatternColor: new function
- Plpdf_Const: contains page formats
- Init1: new procedure

05-OCT-2005, v1.2.0

- nopAlias: new parameters
- AttachFile: new procedure
- SetPageNoStart: new procedure
- SetPageNoEnd: new procedure
- Image handling with and without Oracle Intermedia



08-NOV-2005, v1.2.1

- Certification uses only DBID for validating licence

30-NOV-2005, v1.2.2

- Row_Print: new parameter: p_fill
- Row_Print2: new parameter: p_fill
- AddTextAnnot: new procedure
- AddFileAnnot: new procedure
- AddHighlightAnnot: new procedure
- AddUnderlineAnnot: new procedure
- AddStrikeOutAnnot: new procedure
- GetPrintFontName: new function
- GetPrintFontStyle: new function
- GetPrintFontSize: new function

21-DEC-2005, v1.2.3

- Oracle XE support

31-MAR-2006, v1.2.4

- PrintCell: set p_w parameter's default value to 0
- PrintMultiLineCell: set p_w parameter's default value to 0
- LineBreak: change p_h parameter's type to NUMBER
- SetCurrentX: set p_x parameter's default value to 0
- Create integrated parameter checker for:
 - Init
 - Init1
 - SetHeaderProcName
 - SetFooterProcName
 - StartClipping
 - SetAllMargin
 - SetLeftMargin
 - SetTopMargin
 - SetRightMargin
 - SetAutoNewPage
 - SetDocDisplayMode
 - SetCompress
 - SetEncoding
 - NewPage
 - SetColor4Drawing
 - SetColor4Filling
 - SetColor4Text
 - SetLineWidth
 - DrawLine
 - DrawRect
 - AddTTF
 - SetPrintFont
 - SetPrintFontSize
 - SetLinkDest



- PutLink
 - PrintText
 - PrintCell
 - PrintMultiLineCell
 - PrintFlowingText
 - LineBreak
 - SetCurrentX
 - SetCurrentY
 - SetCurrentXY
 - DrawEllipse
 - PutImage
 - CheckPageBreak
 - SetRotate
 - CrBookmark
 - DrawSector
 - SetProtection
 - PrintImageCell
 - SetCellMargin
 - SetDashPattern
 - DrawPolygon
 - CrTillingPattern
 - AddLine2Pattern
 - AddRect2Pattern
 - AddEllipse2Pattern
 - AddPolygon2Pattern
 - SetTillingPattern
 - AttachFile
 - AddTextAnnot
 - AddFileAnnot
 - AddMarkupAnnot
- Default Encoding in plpdf_cert package

01-JUN-2006, v1.3.0

- utf16 TrueType Font support
- Row_Print: new parameter: p_min_height
- Row_Print2: new parameter: p_min_height

15-SEP-2006, v1.4.0

- PrintCell: p_txt parameter length changed to 4000
- PrintMultiLineCell: p_txt parameter length changed to 4000
- PrintFlowingText: p_txt parameter length changed to 4000
- Row_Print2: new parameter: p_min_height
- GetScaleFactor: new function
- SetPrintFont: handling p_size is null
- Row_Print: fix a bug
- Row_Print2: fix a bug
- Table of Contents Commands
- Template related Commands



04-JAN-2007, v1.4.1

- Documentation changed

24-FEB-2007, v1.5.0

- AddCJKFont: new procedure
- Row_Print3: new procedure
- SetDocKeywords: p_keywords parameter length changed to 4000

21-MAY-2007, v1.5.1

- Streams: fix a bug
- Parser: handling number of pages

06-AUG-2007, v1.6.0

- PDF form (Acroform) support
 - o AcroForm_AddTextField: new procedure
 - o AcroForm_AddChoiceField: new procedure
 - o AcroForm_AddPushbutton: new procedure
 - o AcroForm_AddRadiobuttonField: new procedure
 - o AcroForm_AddCheckBoxField: new procedure
- SetNOLastpageProcName: new procedure
- Template: protection support
- OpenOffice Acroform filler (see extras\oo_form folder)

30-NOV-2007, v1.7.0

- Row_Print: fill fixed
- Template: encrypt fixed
- PrintFlowingText: p_txt parameter length changed to 32000
- PrintMultiLineCell: p_indent number default 0
- PrintFlowingTextLimit: new procedure
- TrueTypeUnicode automatic usage
- GetPageRightSpace: new function
- GetFontInfo: new function
- Row_Print4: new procedures
- SetCurrentY: new parameter
- CheckPageBreak: new parameter