

PL/PDF

PL/PDF

User's Guide

v4.9.0

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/downloads>

Code Examples

PL/PDF code examples can be found at: <http://plpdf.com/index.php/support/examples/>

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: v3.0.0

Parameters: -

Return: varchar2: Preliminary certificate key

checkCertKey

Type: Function

Description: Checks the certification key.

Usage:

declare

l_ret boolean;

begin

l_ret := plpdf.checkCertKey;

if l_ret then

dbms_output.put_line('true');

else

dbms_output.put_line('false');

end if;

end;

Version: v3.0.0

Parameters: -

Return: boolean: validity of the key

getLicencedProductsV4

Type: Function

Description: This function returns with licence informations as a string.

Version: v4.1.0

Parameters: -

Return: varchar2: Licence

Administrative commands

AddCJKFont

Type: Procedure

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

Version: v3.0.0

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: v3.0.0

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
- p_embed boolean default true: PDF contains TTF binary file or not

Return: -

init

Type: Procedure

Description: Initializes generator program variables.

Version: v3.0.0

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

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Description: Initializes generator program variables.

Version: v3.0.0

Parameters:

- p_orientation varchar2 default 'P': Orientation
 - o P: portrait
 - o L: landscape
- p_unit varchar2 default 'mm': Unit of measure
- p_format plpdf_type.t_pageformat: see plpdf_const package for predefined pageformats

Return: -

getVersion

Type: Function

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

Version: v3.0.0

Parameters: -

Return: varchar2: number of current version

setRotatePages

Type: Procedure

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

Version: v3.0.0

Parameters:

- p_angle number default 0: Angle/degree of rotation

Return: -

sendDoc

Type: Procedure

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

Version: v4.8.3

Parameters:

- p_blob out nocopy blob: the generated document
- p_freetemp boolean default true: frees the temporary BLOB variable of the PDF file in your default temporary tablespace

Return: -

setAllMargin

Type: Procedure

Description: Sets the margin size.

Version: v3.0.0

Parameters:

- p_left number: Left margin size
- p_top number: Top margin size
- p_right number default null: Right margin size. If null then the right margin will be the same as the left margin

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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 bottommargin size under which an automatic page break is triggered.

Version: v3.0.0

Parameters :

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

Return : -

setNOCompress

Type: Procedure

Description: Disables the compression of PDF documents. By default compression is enabled.

Version: v3.0.0

Return : -

setDocAuthor

Type: Procedure

Description: Sets the document author.

Version: v3.0.0

Parameters :

- p_author varchar2 : Document author

Return : -

setDocCreator

Type: Procedure

Description: Sets the document creator.

Version: v3.0.0

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: v3.0.0

Parameters :

- p_zoom varchar2 : Layout view
 - o fullpage: fits as full page

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- 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

Type: Procedure

Description : Sets the document keywords.

Version: v3.0.0

Parameters :

- p_keywords varchar2 : Keyword list

Return : -

setDocSubject

Type: Procedure

Description : Sets the document subject.

Version: v3.0.0

Parameters :

- p_subject varchar2 : Document subject

Return : -

SetDocTitle

Type: Procedure

Description : Sets the document title.

Version: v3.0.0

Parameters :

- p_title varchar2 : Document title

Return : -

setEncoding

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Type: Procedure

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

Version: v3.0.0

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

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: v3.0.0

Parameters:

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

Return: -

setHeaderProcName5

Type: Procedure

Description: Sets the page header procedure name with 5 parameters. 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: v3.0.0

Parameters:

- p_proc_name varchar2: Page header procedure name
- p_height number: height of header section
- p_1 varchar2 default null: parameter of header procedure

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- p_2 varchar2 default null : parameter of header procedure
- p_3 varchar2 default null : parameter of header procedure
- p_4 varchar2 default null : parameter of header procedure
- p_5 varchar2 default null : parameter of header procedure

Return : -

set3HeaderProcName

Type: Procedure

Description: Sets the page header procedure names. The program name passed as a parameter executes when the page header is created.

Version: v3.0.1

Parameters :

- p_default_proc_name varchar2 default null : Specifies that this header shall appear on every page in this section which is not overridden with a specific even or first page header.
- p_first_proc_name varchar2 default null : Specifies that this header shall appear on the first page in this document.
- p_even_proc_name varchar2 default null : Specifies that this header shall appear on all even numbered pages in this document.
- 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: v3.0.0

Parameters :

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

Return : -

setFooterProcName5

Type: Procedure

Description: Sets the page footer procedure name with 5 parameters. 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: v3.0.0

Parameters :

- p_proc_name varchar2 : Page header procedure name
- p_height number : height of header section
- p_1 varchar2 default null : parameter of footer procedure
- p_2 varchar2 default null : parameter of footer procedure
- p_3 varchar2 default null : parameter of footer procedure
- p_4 varchar2 default null : parameter of footer procedure

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- p_5 varchar2 default null : parameter of footer procedure

Return : -

set3FooterProcName

Type: Procedure

Description : Sets the page footer procedure names. The program name passed as a parameter executes when the page footer is created.

Version: v3.0.1

Parameters :

- p_default_proc_name varchar2 default null : Specifies that this footer shall appear on every page in this section which is not overridden with a specific even or first page footer.
- p_first_proc_name varchar2 default null : Specifies that this footer shall appear on the first page in this document.
- p_even_proc_name varchar2 default null : Specifies that this footer shall appear on all even numbered pages in this document.
- p_height number : height of header section

Return : -

setBackgroundColor

Type: Procedure

Description : Sets the background color of the pages

Version: v3.0.0

Parameters :

- p_color plpdf_type.t_color : The color of the background

Return : -

SetWatermarkProcName

Type: Procedure

Description : Sets the name of the watermark creator procedure

Version: v3.0.0

Parameters :

- p_proc_name varchar2 : The name of the procedure

Return : -

SetStampProcName

Type: Procedure

Description : Sets the name of the stamp creator procedure

Version: v3.0.0

Parameters :

- p_proc_name varchar2 : The name of the procedure

Return : -

setNewPageProcName

Type: Procedure

Description : Sets the new page procedure name. The program name passed as a

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parameter executes when the page is started.

Version: v4.4.0

Parameters :

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

Return : -

setLeftMargin

Type: Procedure

Description: Sets the left margin size.

Version: v3.0.0

Parameters :

- p_margin number : Margin size

Return : -

setTopMargin

Type: Procedure

Description: Sets the top margin size.

Version: v3.0.0

Parameters :

- p_margin number : Margin size

Return : -

setRightMargin

Type: Procedure

Description: Sets the right margin size.

Version: v3.0.0

Parameters :

- p_margin number : Margin size

Return : -

setBottomMargin

Type: Procedure

Description: Sets the bottom margin size with autonewpage.

Version: v3.6.0

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: v3.0.0

Parameters :

- p_proc_name varchar2 : Procedure name

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Return : -

SetPageNoStart

Type: Procedure

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

Version: v3.2.0

Parameters :

- p_start_num pls_integer default null : The start of the numbering, null means 1

Return : -

SetPageNoEnd

Type: Procedure

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

Version: v3.0.0

Parameters : -

Return : -

getPageNoAlter

Type: Function

Description : Gets page altering flag, see [SetPageNoStart](#) .

Version: v3.0.0

Parameters : -

Return : boolean : Altered or not

SetProtection

Type: Procedure

Description : Allows to protect the PDF document.

Version: v3.0.0

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 : -

setPDFAlB

Type: Procedure

Description : Set PDF/A-1B support.

Version: v3.0.0

Parameters : -

Return : -

setID

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Type: Procedure

Description: Sets the internal identifier of the PDF file. ID format is a 32 characters length hex string, possible generator is the "rawtohex(SYS_GUID())" expression.

Version: v3.0.0

Parameters :

- p_id varchar2 : ID value

Return : -

Navigations and formatting commands

checkPageBreak

Type: Function

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

Version: v3.0.0

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

getCurrPageNum

Type: Function

Description: Returns the page number of the current page.

Version: v3.0.0

Parameters: -

Return: pls_integer: Page number of the current page

getNumOfPages

Type: Function

Description: Returns the number of pages, this procedure works in header and footer procedures only.

Version: v3.0.0

Parameters: -

Return: pls_integer: Number of pages

getLeftMargin

Type: Function

Description: Gets the page left margin size.

Version: v3.0.0

Parameters: -

Return: number: Size of left margin

getRightMargin

Type: Function

Description: Gets the page right margin size.

Version: v3.0.0

Parameters: -

Return: number: Size of right margin

getTopMargin

Type: Function
Description: Gets the page top margin size.
Version: v3.0.0
Parameters: -
Return: number: Size of top margin

getBottomMargin

Type: Function
Description: Gets the page bottom margin size.
Version: v3.0.0
Parameters: -
Return: number: Size of bottom margin

getHeaderHeight

Type: Function
Description: Gets the page header size.
Version: v3.0.0
Parameters: -
Return: number: Size of header

getFooterHeight

Type: Function
Description: Gets the page footer size.
Version: v3.0.0
Parameters: -
Return: number: Size of footer

getCurrentX

Type: Function
Description: Gets the X coordinate of the cursor.
Version: v3.0.0
Parameters: -
Return: number: X coordinate

getCurrentY

Type: Function
Description: Gets the Y coordinate of the cursor.
Version: v3.0.0
Parameters: -
Return: number: Y coordinate

getPageAvailableHeight

Type: Function
Description: Gets the available height (without margins) of actual page.
Version: v3.0.0

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Parameters : -

Return : number : Available height

getPageAvailableWidth

Type: Function

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

Version: v3.0.0

Parameters : -

Return : number : Available width

getPageHeight

Type: Function

Description : Gets the height of actual page.

Version: v3.0.0

Parameters : -

Return : number : The height of the page

getPageRightSpace

Type: Function

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

Version: v3.0.0

Parameters : -

Return : number : Actual page available space

getPageLeftSpace

Type: Function

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

Version: v3.0.0

Parameters : -

Return : number : Actual page available space

getPageSpace

Type: Function

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

Version: v3.0.0

Parameters : -

Return : number : Actual page available space

getPageWidth

Type: Function

Description : Gets the width of actual page.

Version: v3.0.0

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Parameters : -

Return : number : Actual page width

getPageBottomSpace

Type: Function

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

Version: v3.0.0

Parameters : -

Return : number : Actual page bottom space

getPrintFontKey

Type: Function

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

Version: v3.0.0

Parameters : -

Return : varchar2 : Font type

getPrintFontName

Type: Function

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

Version: v3.0.0

Parameters : -

Return : varchar2 : Font type

getPrintFontStyle

Type: Function

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

Version: v3.0.0

Parameters : -

Return : varchar2 : Font style

getPrintFontSize

Type: Function

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

Version: v3.0.0

Parameters : -

Return : varchar2 : Font size

getScaleFactor

Type: Function

Description : Get the current scale factor.

Version: v3.0.0

Parameters : -

Return : number : scale factor

getTextWidth

Type: Function

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

Version: v3.0.0

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: v3.0.0

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_s varchar2 : Text

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

removeMissingChars

Type: Function

Description: Remove unknown characters from text (uses current font).

Version: v3.0.0

Parameters:

- p_s varchar2 : Text

Return: varchar2 : The text without missing characters

insertMovePage

Type: Procedure

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

Version: v3.0.0

Parameters:

- p_orig_pos number : origin page position
- p_new_pos number : new page position

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: v3.0.0

Parameters:

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

Return: -

SetNoPrintFooter

Type: Procedure

Description: Disables the footer on the specified page.

Version: v3.0.0

Parameters:

- p_page pls_integer default null: Page number

Return: -

setCurrentX

Type: Procedure

Description: Places the cursor at the X coordinate.

Version: v3.0.0

Parameters:

- p_x number default 0: X coordinate

Return: -

setCurrentY

Type: Procedure

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

Version: v3.0.0

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: v3.0.0

Parameters:

- p_x number default 0: X coordinate
- p_y number default 0: Y coordinate

Return: -

NewLine

Type: Procedure

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

Version: v3.0.0

Parameters:

- p_h number default 0 : Height of the line break.

Return: -

Content Related Commands

AttachFile

Type: Procedure

Description: Attachs a file to the PDF document.

Version: v3.0.0

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: v3.0.0

Parameters:

- p_txt varchar2: Text of the bookmark
- p_level number default 0: Bookmark level, 0 is the highest level
- p_y number default null: Y coordinate of the bookmark within the current page. Null denotes the cursor position.

Return: -

PrintoutText

Type: Procedure

Description: Prints a text starting from the specified position.

Version: v3.0.0

Parameters:

- p_x number: X coordinate for the start of the text
- p_y number default null: Y coordinate for the start of the text
- p_txt varchar2: Text

Return: -

Circle

Type: Procedure

Description: Draws a circle on the current page.

Version: v3.0.1

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_draw boolean default true: frame drawing
- p_fill boolean default false: filling
- p_draw_color plpdf_type.t_color default null: frame drawing color

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- p_fill_color plpdf_type.t_color default null : filling color
- p_linewidth number default null : The width of the frame line of the rectangle
- p_fill_pattern varchar2 default null : The filling pattern

Return : -

Ellipse

Type: Procedure

Description : Draws an ellipse on the current page.

Version: v3.0.1

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_draw boolean default true : frame drawing
- p_fill boolean default false : filling
- p_draw_color plpdf_type.t_color default null : frame drawing color
- p_fill_color plpdf_type.t_color default null : filling color
- p_linewidth number default null : The width of the frame line of the rectangle
- p_fill_pattern varchar2 default null : The filling pattern

Return : -

Line

Type: Procedure

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

Version: v3.0.0

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
- p_color plpdf_type.t_color default null : color of the line
- p_width number default null : width of the line

Return : -

Polygon

Type: Procedure

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

Version: v3.0.1

Parameters :

- p_points plpdf_type.t_points : set of ordered points
- p_draw boolean default true : frame drawing
- p_fill boolean default false : filling
- p_draw_color plpdf_type.t_color default null : frame drawing color
- p_fill_color plpdf_type.t_color default null : filling color
- p_linewidth number default null : The width of the frame line of the

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rectangle

- p_fill_pattern varchar2 default null : The filling pattern

Return : -

Path

Type: Procedure

Description : Draws a lines between the points on the page.

Version: v3.6.0

Parameters :

- p_operators plpdf_type.t_path_operators : set of ordered operators defined in the PDF Reference. Supported Operators: m,l,c,v,y,h,re
- p_draw boolean default true : frame drawing
- p_fill boolean default false : filling
- p_draw_color plpdf_type.t_color default null : frame drawing color
- p_fill_color plpdf_type.t_color default null : filling color
- p_linewidth number default null : The width of the frame line of the rectangle
- p_fill_pattern varchar2 default null : The filling pattern

Return : -

Rect

Type: Procedure

Description : Draws a rectangle on the page.

Version: v3.0.0

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_draw boolean default true : frame drawing
- p_fill boolean default false : filling
- p_draw_color plpdf_type.t_color default null : frame drawing color
- p_fill_color plpdf_type.t_color default null : filling color
- p_linewidth number default null : The width of the frame line of the rectangle
- p_fill_pattern varchar2 default null : The filling pattern

Return : -

RoundedRect

Type: Procedure

Description : Draws a rectangle on the page.

Version: v3.0.1

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

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- p_draw boolean default true : frame drawing
- p_fill boolean default false : filling
- p_draw_color plpdf_type.t_color default null : frame drawing color
- p_fill_color plpdf_type.t_color default null : filling color
- p_linewidth number default null : The width of the frame line of the rectangle
- p_fill_pattern varchar2 default null : The filling pattern

Return : -

Sector

Type : Procedure

Description : Draws a sector on the current page.

Version : v3.0.1

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_draw boolean default true : frame drawing
- p_fill boolean default false : filling
- p_draw_color plpdf_type.t_color default null : frame drawing color
- p_fill_color plpdf_type.t_color default null : filling color
- p_linewidth number default null : The width of the frame line of the rectangle
- p_fill_pattern varchar2 default null : The filling pattern
- p_cw boolean default true : Draw direction
 - o true: Clockwise
 - o false: Anti-clockwise
- p_o number default 90 : origin of angles

Return : -

EndOpacity

Type : Procedure

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

Version : v3.0.0

Parameters : -

Return : -

EndOptCont

Type : Procedure

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

Version : v3.0.0

Parameters : -

Return : -

putImage

PL/PDF

Type: Procedure

Description: Inserts an image (JPG, BMP, PNG, etc.) from a BLOB variable into the current page.

Version: v3.0.1

Parameters:

- p_name varchar2: Image name or ID, if the name is equal with an earlier used image name then procedure reuses the original blob
- 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 null: Image width, if null then the image is displayed in its actual width
- p_h number default null: Image height, if null then the image is displayed in its actual height
- p_link varchar2 default NULL: URL or internal link ID

Return: -

putImage

Type: Procedure

Description: Inserts an image (JPG, BMP, PNG, etc.) from a BLOB variable into the current page.

Version: v3.0.1

Parameters:

- p_name varchar2: The name is an earlier used image name and procedure reuse this image blob.
- p_x number: X coordinate of the image
- p_y number: Y coordinate of the image
- p_w number default null: Image width, if null then the image is displayed in its actual width
- p_h number default null: Image height, if null then the image is displayed in its actual height
- p_link varchar2 default NULL: URL or internal link ID

Return: -

putImage

Type: Procedure

Description: Inserts an image (JPG, BMP, PNG, etc.) from a BLOB variable into the current page.

Version: v3.0.1

Parameters:

- 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 null: Image width, if null then the image is displayed in its actual width
- p_h number default null: Image height, if null then the image is displayed in its actual height
- p_link varchar2 default NULL: URL or internal link ID

Return: -

putInternalLink

Type: Procedure

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

Version: v3.0.0

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 pls_integer: Internal link ID returned by crInternalLinkDest

Return: -

putExternalLink

Type: Procedure

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

Version: v3.0.0

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: External link

Return: -

putLink

Type: Procedure

Description: Puts a link area on the page that point to an external link. If p_link is a number then internal if string then external link.

Version: v3.0.0

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: Identification of the link

Return: -

setStrokingColor

Type: Procedure

Description: Sets the color for stroking operation. Colors must be specified according to the RGB pallet.

Version: v3.0.0

Parameters:

- p_color plpdf_type.t_color: color

Return: -

setNonStrokingColor

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Type: Procedure

Description: Sets the color for non stroking operation. Colors must be specified according to the RGB pallet.

Version: v3.0.0

Parameters:

- p_color plpdf_type.t_color: color

Return: -

addJavaScript

Type: Procedure

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

Version: v3.0.0

Parameters:

- p_name varchar2: Name of the script
- p_text varchar2: The script

Return: -

LineWidth

Type: Procedure

Description: Sets the thickness of lines drawn after this statement.

Version: v3.0.0

Parameters:

- p_width number: Line thickness

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: v3.0.0

Parameters: -

Return: number: The ID of the internal link

setLinkDest

Type: Procedure

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

Version: v3.0.0

Parameters:

- p_link number: Internal link ID returned by CrInternalLink
- p_y number default 0: Y position on the page, if null then the current Y coordinate, if 0 then the top of the page
- p_page number default null: Page number, if null then the current page

Return: -

crInternalLinkDest

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Type: Function

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

Version: v3.0.0

Parameters:

- p_page pls_integer default null: Page number, if null then the current page
- p_y number default null: Y position on the page, if null then the current Y coordinate, if 0 then the top of the page

Return: Internal link ID

setPrintFont

Type: Procedure

Description: Sets the font and its properties.

Version: v3.0.0

Parameters:

- 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 null: Font size, null means the current size. If no size has been specified then value is 12.

Return: -

setPrintFontSize

Type: Procedure

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

Version: v3.0.0

Parameters:

- p_size number: Font size

Return: -

setRotate

Type: Procedure

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

Version: v3.0.0

Parameters:

- p_angle number: Angle/degree of rotation
- p_x number default null: X coordinate of the rotation point, if null then the X coordinate of the cursor

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- p_y number default null : Y coordinate of the rotation point, if null then the Y coordinate of the cursor

Return : -

startClipping

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: v3.0.0

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

Return : -

EndClipping

Type: Procedure

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

Version: v3.0.0

Parameters : -

Return : -

isInClipping

Type: Function

Description : Get the state of clipping.

Version: v3.0.0

Parameters : -

Return : boolean: in clipping or not

startOpacity

Type: Procedure

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

Version: v3.0.0

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: v3.0.0

Parameters :

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- p_name varchar2 : name of optional content
- p_state boolean default true : default state is visible or invisible
- p_ui_order boolean default true : insert into the state array
- p_print boolean default true : printed out

Return : -

Template Related Commands

InsTemplate

Type: Function

Description: Insert a template into the pdf.

Version: v3.0.0

Parameters:

- p_tpl plpdf_type.tr_tpl_data: template data

Return: pls_integer: template ID

setPageTemplate

Type: Procedure

Description: Use a template.

Version: v3.0.0

Parameters:

- p_page pls_integer default null: page, Null means current page
- p_tplidx pls_integer: template ID
- p_fittopage boolean default true: fit template to page size

Return: -

setPageDefaultTemplate

Type: Procedure

Description: Set template for all new page. Remove template when p_tplidx is null.

Version: v3.0.0

Parameters:

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

Return: -

Digital Signature Related Commands

setDigSig

Type: Procedure

Description: Set digital signature appearances.

Version: v3.0.0

Parameters:

- p_Name varchar2 default null: The name of the person or authority signing the document.
- p_Location varchar2 default null: The CPU host name or physical location of the signing.
- p_Reason varchar2 default null: The reason for the signing, such as (I agree?).
- p_ContactInfo varchar2 default null: Information provided by the signer to allow a recipient to contact the signer to verify the signature; for example, a phone number.
- p_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: -

setNeedAppearances

Type: Procedure

Description: Set Need Appearances property for Acroform fields.

Version: v3.0.0

Parameters: -

Return: -

getCalcCurrPageNum

Type: Function

Description: Gets the calculated number of the page.

Version: v3.0.0

Parameters:

- p_page pls_integer: The page number

Return: pls_integer: page number

getCalcCurrPageNum

Type: Function

Description: Gets the calculated amount number of the pages.

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Version: v3.0.0

Parameters :

- p_page pls_integer : The page number

Return : pls_integer : number of pages

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LineBreak

Type: Procedure

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

Version: v3.0.0

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: -

setLineWidth

Type: Procedure

Description: Sets the thickness of lines drawn after this statement.

Version: v3.0.0

Parameters:

- p_width number: Line thickness

Return: -

getLineWidth

Type: Function

Description: Gets the current line size.

Version: v3.0.0

Parameters: -

Return: number: Line size

DrawLine

Type: Procedure

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

Version: v3.0.0

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: -

DrawRect

Type: Procedure

Description: Draws a rectangle on the page.

Version: v3.0.0

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: v3.0.0

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_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 : -

DrawEllipse

Type: Procedure

Description : Draws an ellipse on the current page.

Version: v3.0.0

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 : -

DrawCircle

Type: Procedure

Description : Draws a circle on the current page.

Version: v3.0.0

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 : -

drawSector

Type: Procedure

Description : Draws a sector on the current page.

Version: v3.0.0

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 : -

DrawPolygon

Type: Procedure

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

Version: v3.0.0

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 : -

PrintText

Type: Procedure

Description : Prints a text starting from the specified position.

Version: v3.0.0

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 : -

setCellMargin

Type: Procedure
Description: Sets the cell margin size.
Version: v3.0.0
Parameters:
- p_margin number : Margin size
Return: -

getCellMargin

Type: Function
Description: Gets the cell margin size.
Version: v3.0.0
Parameters: -
Return: number : Margin size

setCellBottomMargin

Type: Procedure
Description: Sets the cell bottom margin size.
Version: v3.0.0
Parameters:
- p_margin number : Margin size
Return: -

setCellLeftMargin

Type: Procedure
Description: Sets the cell left margin size.
Version: v3.0.0
Parameters:
- p_margin number : Margin size
Return: -

setCellRightMargin

Type: Procedure
Description: Sets the cell right margin size.
Version: v3.0.0
Parameters:
- p_margin number : Margin size
Return: -

setCellTopMargin

Type: Procedure
Description: Sets the cell top margin size.
Version: v3.0.0
Parameters:
- p_margin number : Margin size
Return: -

getCellBottomMargin

Type: Function
Description: Gets the cell bottom margin size.
Version: v3.0.0
Parameters: -
Return: number: Size of bottom margin

getCellLeftMargin

Type: Function
Description: Gets the cell left margin size.
Version: v3.0.0
Parameters: -
Return: number: Size of left margin

getCellRightMargin

Type: Function
Description: Gets the cell right margin size.
Version: v3.0.0
Parameters: -
Return: number: Size of right margin

getCellTopMargin

Type: Function
Description: Gets the cell top margin size.
Version: v3.0.0
Parameters: -
Return: number: Size of top margin

getTextHeight

Type: Function
Description: Gets the height of the actual font.
Version: v3.4.0
Parameters: -
Return: number: The size of the actual font

getCellMinHeight

Type: Function
Description: Gets the minimum cell height (uses current font).
Version: v3.0.0
Parameters: -
Return: number

getCellMinHeightFont

Type: Function

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

Version: v3.0.0

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: v3.0.0

Parameters:

- p_txt varchar2: Text for calculating width

Return: number

getCellMinWidthFont

Type: Function

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

Version: v3.0.0

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 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: v4.8.0

Parameters :

- p_w number default 0 : Rectangle width
 - o 0: the rectangle will extend till the right margin
 - o null: uses minimum cell width
- p_h number default 0 : Rectangle height
 - o null: uses minimum cell height
 - o -1: uses minimum cell height
 - o 0: uses last 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 plpdf_const.beside : 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 boolean default false : Fill with current fill color
 - o false: no fill
 - o true: 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 boolean default true : Clipping the cell
 - o false: no clipping
 - o true: clipping
- p_vert_align varchar2 default null : Text vertical alignment in cell
 - o null: normal
 - o T: top
 - o B: bottom

Return : -

PrintMultiLineCell

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Type: Procedure

Description: Draws a multi line cell.

Version: v3.0.0

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 null: uses minimum cell height
 - o -1: uses minimum cell height
 - o 0: uses last 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_align varchar2 default 'J': Text alignment
 - o L: left
 - o R: right
 - o C: center
 - o J: force justification
- p_fill boolean default false: Fill with current fill color
 - o false: no fill
 - o true: 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 boolean default true: Clipping cell
 - o false: no clipping
 - o true: clipping
- p_indent number default 0: First line Indent
- p_ln number default plpdf_const.newline: Cursor position after the cell is printed
 - o 0: Beside the cell
 - o 1: New line
 - o 2: Under the cell

Return: -

PrintFlowingText

Type: Procedure

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

Version: v3.0.0

Parameters:

- p_h number default 0: Rectangle height
 - o null: uses minimum cell height

- o -1: uses minimum cell height
- o 0: uses last cell 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 boolean default true : Clipping text
 - o false: no clipping
 - o false: clipping
- p_lastline_j varchar2 default 'L' : justified text last line alignment
 - o L: left
 - o R: right
 - o C: center
 - o J: Force Justification

Return : -

PrintFlowingTextLimit

Type: Procedure

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

Version: v3.0.0

Parameters :

- p_h number default 0 : Rectangle height
 - o null: uses minimum cell height
 - o -1: uses minimum cell height
 - o 0: uses last cell 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 boolean default true : Clipping text
 - o false: no clipping
 - o true: 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 : -

PrintImageCell

Type: Procedure

Description: Print an image with frame.

Version: v3.0.0

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 plpdf_const.beside: Cursor position after the cell is printed
 - o 0: Beside the cell
 - o 1: New line
 - o 2: Under the cell
- p_fill boolean default false: Fill with current fill color
 - o false: no fill
 - o true: 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: -

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: v3.0.0

Parameters:

- p_r number: Red component code, can be between 0 and 255
- p_g number: Green component code, can be between 0 and 255
- p_b number: 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.

PL/PDF

Version: v3.0.0

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: v3.0.0

Parameters :

- p_r number : Red component code, can be between 0 and 255
- p_g number : Green component code, can be between 0 and 255
- p_b number : 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: v3.0.0

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: v3.0.0

Parameters :

- p_r number : Red component code, can be between 0 and 255
- p_g number : Green component code, can be between 0 and 255
- p_b number : 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: v3.0.0

Parameters :

- p_color plpdf_type.t_color : color

Return : -

getColor4Drawing

PL/PDF

Type: Function

Description: Gets the line color for objects.

Version: v3.0.0

Parameters: -

Return: plpdf_type.t_color: Drawing color

getColor4Filling

Type: Function

Description: Gets the filling color for objects.

Version: v3.0.0

Parameters: -

Return: plpdf_type.t_color: Filling color

getColor4Text

Type: Function

Description: Gets the color of text.

Version: v3.0.0

Parameters: -

Return: plpdf_type.t_color: Color of text