

PL/PDF

PL/PDF

User's Guide

v2.9.2

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: v2.3.0

Parameters: -

Return: varchar2: Preliminary certificate key

CertKeyCheck

Type: Function

Description: Checks the certification key.

Usage:

declare

l_ret boolean;

begin

l_ret := plpdf.CertKeyCheck;

if l_ret then

dbms_output.put_line('true');

else

dbms_output.put_line('false');

end if;

end;

Version: v2.3.0

Parameters: -

Return: boolean: validity of the key

Administrative commands

AddCJKFont

Type: Procedure

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

Version: v1.5.0

Parameters:

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

Return: -

AddTTF

Type: Procedure

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

Version: v2.6.0

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: v2.1.0

Parameters:

- p_orientation varchar2 default 'P': Orientation
 - o P: portrait
 - o L: landscape
- p_unit varchar2 default 'mm': Unit of measure
- p_format varchar2 default 'A4': Page format

Return: -

init1

Type: Procedure

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Description: Initializes generator program variables.

Version: v2.1.1

Parameters:

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

Return: -

getVersion

Type: Function

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

Version: v1.0.0

Parameters: -

Return: varchar2: number of current version

setRTOL

Type: Procedure

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

Version: v2.1.1

Parameters:

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

Return: -

nopAlias

Type: Procedure

Description: Defines the page number alias.

Version: v2.9.2

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
- p_align varchar2 default null: Align (padding) of result numbering, possible values L(eft)/R(ight) default null means L(eft)

Return: -

setRotatePages

Type: Procedure

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

Version: v2.5.0

Parameters:

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- p_angle number : 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: v1.0.0

Parameters :

- p_blob out nocopy blob : the generated document

Return : -

setAllMargin

Type: Procedure

Description : Sets the margin size.

Version: v1.2.4

Parameters :

- p_left number : Left margin size

- p_top number : Top margin size

- p_right number default -1 : Right margin size. When it is set to -1 then the right margin will be the same as the left margin

Return : -

setAutoNewPage

Type: Procedure

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

Version: v1.2.4

Parameters :

- p_auto boolean : Automatic page break

o true: Enable

o false: Disable

- p_margin number default 0 : Bottom margin size, if not set, then 1 cm

Return : -

setCompress

Type: Procedure

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

Version: v2.0.0

Parameters :

- p_compress boolean : Compression

o True: Enable

o False: Disable

- p_method varchar2 default null : compress method

o plpdf_const.comp_FlateDecode: FlateDecode (Java)

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- o plpdf_const.comp_LZWDecode: LZWDecode
- o plpdf_const.comp_PLDeflate: FlateDecode (PL/SQL)

Return : -

setDocAuthor

Type: Procedure

Description: Sets the document author.

Version: v1.0.0

Parameters :

- p_author varchar2 : Document author

Return : -

setDocCreator

Type: Procedure

Description: Sets the document creator.

Version: v1.0.0

Parameters :

- p_creator varchar2 : Document creator

Return : -

setDocDisplayMode

Type: Procedure

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

Version: v1.2.4

Parameters :

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

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document's window to fit the size of the first displayed page.

Return : -

setDocKeywords

Type: Procedure

Description : Sets the document keywords.

Version: v1.0.0

Parameters :

- p_keywords varchar2 : Keyword list

Return : -

setDocSubject

Type: Procedure

Description : Sets the document subject.

Version: v1.0.0

Parameters :

- p_subject varchar2 : Document subject

Return : -

SetDocTitle

Type: Procedure

Description : Sets the document title.

Version: v1.0.0

Parameters :

- p_title varchar2 : Document title

Return : -

setEncoding

Type: Procedure

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

Version: v1.2.4

Parameters :

- p_enc varchar2 : Character encoding code
 - o cp1250
 - o cp1251
 - o cp1252: this is the default, no need to set
 - o cp1253
 - o cp1254
 - o cp1255
 - o cp1256
 - o cp1257
 - o cp1258
 - o cp874
 - o iso-8859-1
 - o iso-8859-2
 - o iso-8859-4
 - o iso-8859-5

- o iso-8859-7
- o iso-8859-9
- o iso-8859-15
- o iso-8859-16
- o utf16: AL32UTF8 database with unicode TTF embending

Return : -

setHeaderProcName

Type: Procedure

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

Version: v1.2.4

Parameters :

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

Return : -

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: v2.9.0

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
- 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 : -

setFooterProcName

Type: Procedure

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

Version: v1.2.4

Parameters :

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

Return : -

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: v2.9.0

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
- p_5 varchar2 default null : parameter of footer procedure

Return: -

setLeftMargin

Type: Procedure

Description: Sets the left margin size.

Version: v1.2.4

Parameters:

- p_margin number : Margin size

Return: -

setTopMargin

Type: Procedure

Description: Sets the top margin size.

Version: v1.2.4

Parameters:

- p_margin number : Margin size

Return: -

setRightMargin

Type: Procedure

Description: Sets the right margin size.

Version: v1.2.4

Parameters:

- p_margin number : Margin size

Return: -

setNOLastpageProcName

Type: Procedure

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

Version: v1.6.0

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Parameters :

- p_proc_name varchar2 : Procedure name

Return : -

SetPageNoStart

Type: Procedure

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

Version: v1.1.8

Parameters : -

Return : -

SetPageNoEnd

Type: Procedure

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

[SetPageNoStart](#) .

Version: v1.1.8

Parameters : -

Return : -

SetProtection

Type: Procedure

Description: Allows to protect the PDF document.

Version: v2.5.0

Parameters :

- p_print_perm Boolean default false : print the PDF
- p_modify_perm Boolean default false : modify the PDF
- p_annot_forms_perm Boolean default false : add annotations and forms
- p_user_pass varchar2 default null : user password
- p_owner_pass varchar2 default null : owner password

Return : -

setPDFAlB

Type: Procedure

Description: Set PDF/A-1B support.

Version: v2.3.0

Parameters : -

Return : -

setID

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: v2.7.0

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: v1.7.0

Parameters:

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

Return: boolean

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

CurrentPagenumber

Type: Function

Description: Returns the page number of the current page.

Version: v1.0.0

Parameters: -

Return: number: Page number of the current page

getLeftMargin

Type: Function

Description: Gets the page left margin size.

Version: v2.3.0

Parameters: -

Return: number: Size of left margin

getRightMargin

Type: Function

Description: Gets the page right margin size.

Version: v2.3.0

Parameters: -

Return: number: Size of right margin

getTopMargin

Type: Function

Description: Gets the page top margin size.

Version: v2.3.0

Parameters: -

Return: number: Size of top margin

getBottomMargin

Type: Function
Description: Gets the page bottom margin size.
Version: v2.3.0
Parameters: -
Return: number: Size of bottom margin

getHeaderHeight

Type: Function
Description: Gets the page header size.
Version: v2.3.0
Parameters: -
Return: number: Size of header

getFooterHeight

Type: Function
Description: Gets the page footer size.
Version: v2.3.0
Parameters: -
Return: number: Size of footer

getCurrentX

Type: Function
Description: Gets the X coordinate of the cursor.
Version: v1.0.0
Parameters: -
Return: number: X coordinate

getCurrentY

Type: Function
Description: Gets the Y coordinate of the cursor.
Version: v1.0.0
Parameters: -
Return: number: Y coordinate

getPageAvailableHeight

Type: Function
Description: Gets the available height (without margins) of actual page.
Version: v1.1.4
Parameters: -
Return: number: Available height

getPageAvailableWidth

Type: Function
Description: Gets the available width (without margins) of actual page.
Version: v1.1.4

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Parameters : -

Return : number : Available width

getPageHeight

Type: Function

Description : Gets the height of actual page.

Version: v1.1.4

Parameters : -

Return : number

getPageRightSpace

Type: Function

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

Version: v1.7.0

Parameters : -

Return : number

getPageLeftSpace

Type: Function

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

Version: v2.1.1

Parameters : -

Return : number

getPageSpace

Type: Function

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

Version: v2.1.1

Parameters : -

Return : number

getPageWidth

Type: Function

Description : Gets the width of actual page.

Version: v1.1.4

Parameters : -

Return : number

getPrintFontName

Type: Function

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

Version: v1.2.2

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Parameters : -
Return : varchar2 : Font type

getPrintFontStyle

Type: Function
Description : Get the current font style. See [SetPrintFont](#)
Version: v2.1.0
Parameters : -
Return : varchar2 : Font style

getPrintFontSize

Type: Function
Description : Get the current font size. See [SetPrintFont](#)
Version: v1.2.2
Parameters : -
Return : varchar2 : Font size

getScaleFactor

Type: Function
Description : Get the current scale factor.
Version: v1.4.0
Parameters : -
Return : number : scale factor

getTextWidth

Type: Function
Description : Returns the width of the parameter text (uses current font).
Version: v1.0.0
Parameters :
- p_s varchar2 : Text
Return : number : The width of the text in the unit of measure specified in Init

getTextWidthFont

Type: Function
Description : Returns the width of the parameter text, font is a parameter too.
Version: v2.3.0
Parameters :
- 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

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- 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: v2.7.0

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: v1.4.0

Parameters:

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

Return: -

LineBreak

Type: Procedure

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

Version: v1.2.4

Parameters:

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

Return: -

NewPage

Type: Procedure

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

Version: v1.2.4

Parameters:

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

Return: -

setCurrentX

Type: Procedure

Description: Places the cursor at the X coordinate.

Version: v1.0.0

Parameters:

- p_x number default 0 : X coordinate

Return: -

setCurrentY

Type: Procedure

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

Version: v1.7.0

Parameters:

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

Return: -

setCurrentXY

Type: Procedure

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

Version: v1.0.0

Parameters:

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

Return: -

Content Related Commands

AddCircle2Pattern

Type: Procedure

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

Version: v1.1.7

Parameters:

- p_name varchar2: name of pattern
- p_x number: X coordinate of the center of the circle
- p_y number: Y coordinate of the center of the circle
- p_r number: the radius of the circle
- p_style varchar2 default 'D': Style
 - o D: No fill, border line
 - o F: Fill, no border line
 - o DF or FD: Fill and border line

Return: -

AddEllipse2Pattern

Type: Procedure

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

Version: v1.2.4

Parameters:

- p_name varchar2: name of pattern
- p_x number: X coordinate of the center of the ellipse
- p_y number: Y coordinate of the center of the ellipse
- p_rx number: horizontal radius of the ellipse
- p_ry number: vertical radius of the ellipse
- p_style varchar2 default 'D': Style
 - o D: No fill, border line
 - o F: Fill, no border line
 - o DF or FD: Fill and border line

Return: -

AddLine2Pattern

Type: Procedure

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

Version: v1.2.4

Parameters:

- p_name varchar2: name of pattern
- p_x1 number: X coordinate for the start of the line
- p_y1 number: Y coordinate for the start of the line
- p_x2 number: X coordinate for the end of the line
- p_y2 number: Y coordinate for the end of the line

Return: -

AddPolygon2Pattern

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Type: Procedure

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

Version: v1.2.4

Parameters:

- p_name varchar2: name of pattern
- p_points plpdf_type.t_points: set of ordered points
- p_style varchar2 default 'D': Style
 - o D: No fill, border line
 - o F: Fill, no border line
 - o DF or FD: Fill and border line

Return: -

AddRect2Pattern

Type: Procedure

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

Version: v1.2.4

Parameters:

- p_name varchar2: name of pattern
- p_x number: X coordinate for the top left corner of the rectangle
- p_y number: Y coordinate for the top left corner of the rectangle
- p_w number: The width of the rectangle
- p_h number: The height of the rectangle
- p_style varchar2 default NULL: Style
 - o D: No fill, border line
 - o F: Fill, no border line
 - o DF or FD: Fill and border line

Return: -

AddFileAnnot

Type: Procedure

Description: Add File annotation to the current page

Version: v1.2.4

Parameters:

- p_name varchar2 default 'PushPin': The name of an icon to be used in displaying the annotation.
 - o PushPin
 - o Graph
 - o Paperclip
 - o Tag
- p_contents varchar2: The text to be displayed in the pop-up window when the annotation is opened.
- p_x number: X coordinate of the annotation
- p_y number: Y coordinate of the annotation
- p_filename varchar2: name of file
- p_fileblob blob: file
- p_label varchar2 default null: The text label to be displayed in the title bar of the annotation's pop-up window when open and active.
- p_color plpdf_type.t_color default null: This color will be used for the following purposes

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

Return : -

AddHighLightAnnot

Type: Procedure

Description : Add HighLight annotation to the current page

Version: v1.2.2

Parameters :

- p_contents varchar2: The text to be displayed in the pop-up window when the annotation is opened.
- p_x number: X coordinate of the annotation
- p_y number: Y coordinate of the annotation
- p_w number: width of the annotation
- p_h number: height of the annotation
- p_label varchar2 default null: The text label to be displayed in the title bar of the annotation's pop-up window when open and active.
- p_color plpdf_type.t_color default null: This color will be used for the following purposes
 - o The background of the annotation's icon when closed
 - o The title bar of the annotation's pop-up window
 - o The border of a link annotation
- p_popup_x number default null: X coordinate of the pop-up window
- p_popup_y number default null: Y coordinate of the pop-up window
- p_popup_w number default null: width of the pop-up window
- p_popup_h number default null: height of the pop-up window
- p_open boolean default false: A flag specifying whether the pop-up window should initially be displayed open.

Return : -

AddTextAnnot

Type: Procedure

Description : Add Text annotation to the current page

Version: v1.2.4

Parameters :

- p_name varchar2 default 'Note': The name of an icon to be used in displaying the annotation.
 - o Comment
 - o Key
 - o Note
 - o Help
 - o NewParagraph
 - o Paragraph
 - o Insert
- p_contents varchar2: The text to be displayed in the pop-up window when the annotation is opened.
- p_x number: X coordinate of the annotation
- p_y number: Y coordinate of the annotation

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- p_label varchar2 default null : The text label to be displayed in the title bar of the annotation's pop-up window when open and active.
- p_color plpdf_type.t_color default null : This color will be used for the following purposes
 - o The background of the annotation's icon when closed
 - o The title bar of the annotation's pop-up window
 - o The border of a link annotation
- p_popup_x number default null : X coordinate of the pop-up window
- p_popup_y number default null : Y coordinate of the pop-up window
- p_popup_w number default null : width of the pop-up window
- p_popup_h number default null : height of the pop-up window
- p_open boolean default false : A flag specifying whether the pop-up window should initially be displayed open.

Return : -

AddStrikeOutAnnot

Type: Procedure

Description : Add StrikeOut annotation to the current page

Version: v1.2.2

Parameters :

- p_contents varchar2 : The text to be displayed in the pop-up window when the annotation is opened.
- p_x number : X coordinate of the annotation
- p_y number : Y coordinate of the annotation
- p_w number : width of the annotation
- p_h number : height of the annotation
- p_label varchar2 default null : The text label to be displayed in the title bar of the annotation's pop-up window when open and active.
- p_color plpdf_type.t_color default null : This color will be used for the following purposes
 - o The background of the annotation's icon when closed
 - o The title bar of the annotation's pop-up window
 - o The border of a link annotation
- p_popup_x number default null : X coordinate of the pop-up window
- p_popup_y number default null : Y coordinate of the pop-up window
- p_popup_w number default null : width of the pop-up window
- p_popup_h number default null : height of the pop-up window
- p_open boolean default false : A flag specifying whether the pop-up window should initially be displayed open.

Return : -

AddUnderlineAnnot

Type: Procedure

Description : Add Underline annotation to the current page

Version: v1.2.2

Parameters :

- p_contents varchar2 : The text to be displayed in the pop-up window when the annotation is opened.
- p_x number : X coordinate of the annotation

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- p_y number : Y coordinate of the annotation
- p_w number : width of the annotation
- p_h number : height of the annotation
- p_label varchar2 default null : The text label to be displayed in the title bar of the annotation's pop-up window when open and active.
- p_color plpdf_type.t_color default null : This color will be used for the following purposes
 - o The background of the annotation's icon when closed
 - o The title bar of the annotation's pop-up window
 - o The border of a link annotation
- p_popup_x number default null : X coordinate of the pop-up window
- p_popup_y number default null : Y coordinate of the pop-up window
- p_popup_w number default null : width of the pop-up window
- p_popup_h number default null : height of the pop-up window
- p_open boolean default false : A flag specifying whether the pop-up window should initially be displayed open.

Return : -

AddScreenAnnotURL

Type: Procedure

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

Version: v2.3.0

Parameters :

- p_name varchar2 : Name of the media clip.
- p_x number : X coordinate of the annotation
- p_y number : Y coordinate of the annotation
- p_w number : width of the annotation
- p_h number : height of the annotation
- p_url varchar2 : URL of the annotation
- p_mime varchar2 : MIME type of the annotation
- p_event varchar2 default null : Additional action when play annotation
 - o null: play clip when click/activate annotation only
 - o PV: An action to be performed when the page containing the annotation becomes visible in the viewer application's user interface.
 - o PO: An action to be performed when the page containing the annotation is opened.

Return : -

AddScreenAnnotFile

Type: Procedure

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

Version: v2.3.0

Parameters :

- p_name varchar2 : Name of the media clip.
- p_x number : X coordinate of the annotation
- p_y number : Y coordinate of the annotation
- p_w number : width of the annotation

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

Return : -

AttachFile

Type: Procedure

Description : Attachs a file to the PDF document.

Version: v2.8.0

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: v1.2.4

Parameters :

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

Return : -

CrInternalLink

Type: Function

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

Version: v1.0.0

Parameters : -

Return : number : The ID of the internal link

CrTillingPattern

Type: Procedure

Description :

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

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

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

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

Version: v1.2.4

Parameters :

- p_name varchar2 : name of pattern
- p_width number : width of pattern cell
- p_height number : height of pattern cell

Return : -

DrawCircle

Type: Procedure

Description : Draws a circle on the current page.

Version: v1.0.0

Parameters :

- p_x number : X coordinate of the center of the circle
- p_y number : Y coordinate of the center of the circle
- p_r number : the radius of the circle
- p_style varchar2 default NULL : Style
 - o D: No fill, border line
 - o F: Fill, no border line
 - o DF or FD: Fill and border line

Return : -

DrawEllipse

Type: Procedure

Description : Draws an ellipse on the current page.

Version: v1.2.4

Parameters :

- p_x number : X coordinate of the center of the ellipse
- p_y number : Y coordinate of the center of the ellipse
- p_rx number : horizontal radius of the ellipse
- p_ry number : vertical radius of the ellipse
- p_style varchar2 default 'D' : Style
 - o D: No fill, border line
 - o F: Fill, no border line
 - o DF or FD: Fill and border line

Return : -

DrawLine

Type: Procedure

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

Version: v1.2.4

Parameters :

- p_x1 number : X coordinate for the start of the line

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- p_y1 number : Y coordinate for the start of the line
- p_x2 number : X coordinate for the end of the line
- p_y2 number : Y coordinate for the end of the line

Return : -

DrawPolygon

Type: Procedure

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

Version: v2.5.0

Parameters :

- p_points plpdf_type.t_points : set of ordered points
- p_style varchar2 default 'D' : Style
 - o D: No fill, border line
 - o F: Fill, no border line
 - o DF or FD: Fill and border line

Return : -

DrawRect

Type: Procedure

Description : Draws a rectangle on the page.

Version: v1.0.0

Parameters :

- p_x number : X coordinate for the top left corner of the rectangle
- p_y number : Y coordinate for the top left corner of the rectangle
- p_w number : The width of the rectangle
- p_h number : The height of the rectangle
- p_style varchar2 default NULL : Style
 - o D: No fill, border line
 - o F: Fill, no border line
 - o DF or FD: Fill and border line

Return : -

DrawRoundedRect

Type: Procedure

Description : Draws a rectangle on the page.

Version: v2.3.1

Parameters :

- p_x number : X coordinate for the top left corner of the rectangle
- p_y number : Y coordinate for the top left corner of the rectangle
- p_w number : The width of the rectangle
- p_h number : The height of the rectangle
- p_r number : The radius of the corners
- p_style varchar2 default NULL : Style
 - o D: No fill, border line
 - o F: Fill, no border line
 - o DF or FD: Fill and border line

Return : -

DrawSector

Type: Procedure

Description: Draws a sector on the current page.

Version: v1.0.0

Parameters:

- p_xc number: X coordinate of the center of the sector
- p_yc number: Y coordinate of the center of the sector
- p_r number: Radius of the sector
- p_a number: Starting point of the sector
- p_b number: End point of the sector
- p_style varchar2 default 'FD': Style
 - o D: No fill, border line
 - o F: Fill, no border line
 - o DF vagy FD: Fill and border line
- p_cw boolean default true: Draw direction
 - o true: Clockwise
 - o false: Anti-clockwise
- p_o number default 90: origin of angles

Return: -

EndClipping

Type: Procedure

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

Version: v2.1.0

Parameters: -

Return: -

EndOpacity

Type: Procedure

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

Version: v2.1.0

Parameters: -

Return: -

EndOptCont

Type: Procedure

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

Version: v2.1.0

Parameters: -

Return: -

getCellMargin

Type: Function

Description: Gets the cell margin size.

Version: v2.1.0

Parameters: -

Return : number : Margin size

getCellBottomMargin

Type: Function

Description : Gets the cell bottom margin size.

Version: v2.1.0

Parameters : -

Return : number : Size of bottom margin

getCellLeftMargin

Type: Function

Description : Gets the cell left margin size.

Version: v2.1.0

Parameters : -

Return : number : Size of left margin

getCellRightMargin

Type: Function

Description : Gets the cell right margin size.

Version: v2.1.0

Parameters : -

Return : number : Size of right margin

getCellTopMargin

Type: Function

Description : Gets the cell top margin size.

Version: v2.1.0

Parameters : -

Return : number : Size of top margin

getColor4Drawing

Type: Function

Description : Gets the line color for objects.

Version: v1.1.6

Parameters : -

Return : plpdf_type.t_color : Drawing color

getColor4Filling

Type: Function

Description : Gets the filling color for objects.

Version: v1.1.6

Parameters : -

Return : plpdf_type.t_color : Filling color

getColor4Text

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Type: Function
Description: Gets the color of text.
Version: v1.1.6
Parameters: -
Return: plpdf_type.t_color: Color of text

getLineWidth

Type: Function
Description: Gets the current line size.
Version: v1.1.6
Parameters: -
Return: number: Line size

getRowHeight

Type: Function
Description: Returns with height of row, see [Row Print2](#).
Version: v1.1.3
Parameters:
- p_data plpdf_type.t_row_datas: Data shown in the cells
- p_width plpdf_type.t_row_widths: Width of the cells
- p_maxline plpdf_type.t_row_maxlines: Maximum number of lines in a multi-line cell
- p_h number default 5: Height of the cells
Return: number: Height of row

getTillingPatternColor

Type: Function
Description: Gets the color of filling pattern for objects.
Version: v1.1.7
Parameters: -
Return: plpdf_type.t_color: Pattern filling color

getTillingPatternName

Type: Function
Description: Gets the name of filling pattern for objects.
Version: v1.1.7
Parameters: -
Return: varchar2

getCellMinHeight

Type: Function
Description: Gets the minimum cell height (uses current font).
Version: v2.1.1
Parameters: -
Return: number

getCellMinHeightFont

Type: Function

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

Version: v2.3.0

Parameters:

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

Return: number

getCellMinWidth

Type: Function

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

Version: v2.1.1

Parameters:

- p_txt varchar2: Text for calculating width

Return: number

getCellMinWidthFont

Type: Function

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

Version: v2.3.0

Parameters:

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

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

Return : number

PrintCell

Type: Procedure

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

Version: v2.7.0

Parameters :

- p_w number default 0 : Rectangle width, if 0 then the rectangle will extend till the right margin
- p_h number default 0 : Rectangle height
 - o 0: uses last cell height
 - o -1: uses minimum cell height
- p_txt varchar2 default NULL : Text
- p_border varchar2 default '0' : Rectangle border
 - o 0: no border
 - o 1: outline border
 - o L: left side border
 - o T: top side border
 - o R: right side border
 - o B: bottom side border
 - o Or a combination of L, T, R and B
- p_ln number default 0 : Cursor position after the cell is printed
 - o 0: Beside the cell
 - o 1: New line
 - o 2: Under the cell
- p_align varchar2 default NULL : Text alignment
 - o L: left
 - o R: right
 - o C:
 - o J: Force Justification
- p_fill number default 0 : Fill
 - o 0: no fill
 - o 1: fill with current fill color
- p_link varchar2 default NULL : Link related to the text, can be a URL or an internal link ID
- p_clipping number default 1 : Clipping text
 - o 0: no clipping
 - o 1: clipping
- p_vert_align varchar2 default NULL : Text vertical alignment in cell
 - o T: top
 - o B: bottom

Return : -

PrintImageCell

Type: Procedure

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Description: Print an image with frame.

Version: v2.1.1

Parameters:

- p_w number: Width of frame
- p_h number: Height of frame
- p_name varchar2: name of image
- p_data blob: image
- p_margin number default 0: margin size of frame
- p_border varchar2 default '0': Rectangle border
 - o 0: no border
 - o 1: outline border
 - o L: left side border
 - o T: top side border
 - o R: right side border
 - o B: bottom side border
 - o Or a combination of L, T, R and B
- p_ln number default 0: Cursor position after the cell is printed
 - o 0: Beside the cell
 - o 1: New line
 - o 2: Under the cell
- p_fill number default 0: Fill
 - o 0: no fill
 - o 1: fill with current fill color
- p_link varchar2 default NULL: URL or internal link ID
- p_type varchar2 default null: when use Oracle InterMedia then ignore this param, when does not use Oracle InterMedia then JPG or PNG, null means JPG

Return: -

PrintFlowingText

Type: Procedure

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

Version: v2.7.0

Parameters:

- p_h number default 0: Height
- p_txt varchar2 default null: Text
- p_link varchar2 default null: URL or internal link ID
- p_align varchar2 default NULL: Text alignment
 - o L: left
 - o R: right
 - o C:
 - o J: Force Justification
- p_clipping number default 1: Clipping text
 - o 0: no clipping
 - o 1: clipping
- p_lastline_j varchar2 default 'L': justified text last line alignment
 - o L: left
 - o R: right
 - o C: 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: v2.7.0

Parameters :

- p_h number default 0 : Height
- p_txt varchar2 default null : Text
- p_link varchar2 default null : URL or internal link ID
- p_min_x number default 0 : min X position, 0 means the limit is the left margin
- p_max_x number default 0 : max X position, 0 means the limit is the right margin
- p_align varchar2 default NULL : Text alignment
 - o L: left
 - o R: right
 - o C:
 - o J: Force Justification
- p_clipping number default 1 : Clipping text
 - o 0: no clipping
 - o 1: clipping
- p_lastline_j varchar2 default 'L' : justified text last line alignment
 - o L: left
 - o R: right
 - o C:
 - o J: Force Justification

Return : -

TextSplit

Type: function

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

Version: v2.6.0

Parameters :

- p_txt varchar2 : Text
- p_w number : Width of lines
- p_indent number default null : First line Indent
- p_use_cell_margins boolean default true : If true then calculates with cell margins
- p_maxline number default 0 : Maximum number of lines returned. If 0 then all lines will be returned.

Return : plpdf_type.t_text_lines : Text as an array

TextSplitFont

Type: function

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

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Version: v2.3.0

Parameters :

- p_family varchar2 default null : Font type, null means current font family
 - o Helvetica (Arial, Sans Serif)
 - o Courier
 - o Times (Serif)
 - o Symbol
 - o ZapfDingBats
 - o If TTF fonts were added using the AddTTF procedure then they may be used here as well.
- p_style varchar2 default null : Font style
 - o null: Regular
 - o B: Bold
 - o I: Italic
 - o U: Underline
 - o The styles may be combined (i.e. BI will be Bold and Italic)
- p_size number default null : Font size, null means current font size
- p_txt varchar2 : Text
- p_w number : Width of lines
- p_indent number default null : First line Indent
- p_use_cell_margins boolean default true : If true then calculates with cell margins
- p_maxline number default 0 : Maximum number of lines returned. If 0 then all lines will be returned.

Return : plpdf_type.t_text_lines : Text as an array

PrintMultiLineCell

Type: Procedure

Description : Draws a multi line cell.

Version: v2.1.0

Parameters :

- p_w number default 0 : Rectangle width, if 0 then the rectangle will extend till the right margin
- p_h number default 0 : Rectangle height
- p_txt varchar2 default null : Text
- p_border varchar2 default '0' : Rectangle border
 - o 0: no border
 - o 1: outline border
 - o L: left side border
 - o T: top side border
 - o R: right side border
 - o B: bottom side border
 - o Or a combination of L, T, R and B
- p_align varchar2 default 'J' : Text alignment
 - o L: left
 - o R: right
 - o C: center
 - o J: force justification
- p_fill number default 0 : Fill
 - o 0: no fill

PL/PDF

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

Return: -

PrintText

Type: Procedure

Description: Prints a text starting from the specified position.

Version: v1.2.4

Parameters:

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

Return: -

PutImage

Type: Procedure

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

Version: v2.1.1

Parameters:

- p_name varchar2: Image name or ID
- p_data blob: Variable containing the image as binary data
- p_x number: X coordinate of the image
- p_y number: Y coordinate of the image
- p_w number default 0: Image width, if 0 then the image is displayed in its actual width
- p_h number default 0: Image height, if 0 then the image is displayed in its actual height
- p_link varchar2 default NULL: URL or internal link ID
- p_type varchar2 default null: when use Oracle InterMedia then ignore this param, when does not use Oracle InterMedia then JPG or PNG, null means JPG

Return: -

PutLink

Type: Procedure

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

PL/PDF

Version: v1.2.4

Parameters :

- p_x number : X coordinate of the top left corner of the area
- p_y number : Y coordinate of the top left corner of the area
- p_w number : Link area width
- p_h number : Link area height
- p_link varchar2 : Internal link ID returned by CrInternalLink

Return : -

Row_Print

Type: Procedure

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

Version: v2.1.0

Parameters :

- p_data plpdf_type.t_row_datas : Data shown in the cells
- p_width plpdf_type.t_row_widths : Width of the cells
- p_align plpdf_type.t_row_aligns : Alignment of the cells
- p_h number default 5 : Height of the cells
- p_fill number default 0 : Fill
 - o 0: no fill
 - o 1: fill with current fill color
- p_min_height number default 0 : Minimal height of row, 0 means that this parameter is not used
- p_clipping number default 0 : Clipping text
 - o 0: no clipping
 - o 1: clipping

Return : -

Row_Print2

Type: Procedure

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

Version: v2.1.0

Parameters :

- p_data plpdf_type.t_row_datas : Data shown in the cells
- p_border plpdf_type.t_row_borders : Border array of the cells
- p_width plpdf_type.t_row_widths : Width of the cells
- p_align plpdf_type.t_row_aligns : Alignment of the cells
- p_style plpdf_type.t_row_styles : Style of the cells
- p_maxline plpdf_type.t_row_maxlines : Maximum number of lines in a multi-line cell
- p_h number default 5 : Height of the cells
- p_fill number default 0 : Fill
 - o 0: no fill
 - o 1: fill with current fill color
- p_min_height number default 0 : Minimal height of row, 0 means that this parameter is not used
- p_clipping number default 0 : Clipping text

- o 0: no clipping
- o 1: clipping

Return : -

Row_Print2

Type: Procedure

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

Version: v2.1.0

Parameters :

- p_data plpdf_type.t_row_datas : Data shown in the cells
- p_border plpdf_type.t_row_borders : Border array of the cells
- p_width plpdf_type.t_row_widths : Width of the cells
- p_align plpdf_type.t_row_aligns : Alignment of the cells
- p_style plpdf_type.t_row_styles : Style of the cells
- p_maxline plpdf_type.t_row_maxlines : Maximum number of lines in a multi-line cell
- p_h number default 5 : Height of the cells
- p_fill Plpdf_Type.t_row_filles : Fill colors
- p_min_height number default 0 : Minimal height of row, 0 means that this parameter is not used
- p_clipping number default 0 : Clipping text
 - o 0: no clipping
 - o 1: clipping

Return : -

Row_Print3

Type: Procedure

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

Version: v2.1.0

Parameters :

- p_data plpdf_type.t_row_datas : Data shown in the cells
- p_border plpdf_type.t_row_borders : Border array of the cells
- p_width plpdf_type.t_row_widths : Width of the cells
- p_align plpdf_type.t_row_aligns : Alignment of the cells
- p_style plpdf_type.t_row_styles : Style of the cells
- p_maxline plpdf_type.t_row_maxlines : Maximum number of lines in a multi-line cell
- p_links plpdf_type.t_row_links : Links of the cells
- p_h number default 5 : Height of the cells
- p_fill number default 0 : Fill
 - o 0: no fill
 - o 1: fill with current fill color
- p_min_height number default 0 : Minimal height of row, 0 means that this parameter is not used
- p_clipping number default 0 : Clipping text
 - o 0: no clipping
 - o 1: clipping

Return : -

Row_Print3

Type: Procedure

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

Version: v2.1.0

Parameters :

- p_data plpdf_type.t_row_datas : Data shown in the cells
- p_border plpdf_type.t_row_borders : Border array of the cells
- p_width plpdf_type.t_row_widths : Width of the cells
- p_align plpdf_type.t_row_aligns : Alignment of the cells
- p_style plpdf_type.t_row_styles : Style of the cells
- p_maxline plpdf_type.t_row_maxlines : Maximum number of lines in a multi-line cell
- p_links plpdf_type.t_row_links : Links of the cells
- p_h number default 5 : Height of the cells
- p_fill Plpdf_Type.t_row_filles : Fill color
- p_min_height number default 0 : Minimal height of row, 0 means that this parameter is not used
- p_clipping number default 0 : Clipping text
 - o 0: no clipping
 - o 1: clipping

Return : -

Row_Print4

Type: Procedure

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

Version: v2.1.0

Parameters :

- p_data plpdf_type.t_row_datas : Data shown in the cells
- p_width plpdf_type.t_row_widths : Width of the cells
- p_align plpdf_type.t_row_aligns : Alignment of the cells
- p_font plpdf_type.t_row_fonts : Font of the cells (Family is required)
- p_h number default 5 : Height of the cells
- p_fill number default 0 : Fill
 - o 0: no fill
 - o 1: fill with current fill color
- p_min_height number default 0 : Minimal height of row, 0 means that this parameter is not used
- p_clipping number default 0 : Clipping text
 - o 0: no clipping
 - o 1: clipping

Return : -

Row_Print4

Type: Procedure

PL/PDF

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

Version: v2.1.0

Parameters:

- p_data plpdf_type.t_row_datas: Data shown in the cells
- p_border plpdf_type.t_row_borders: Border array of the cells
- p_width plpdf_type.t_row_widths: Width of the cells
- p_align plpdf_type.t_row_aligns: Alignment of the cells
- p_font plpdf_type.t_row_fonts: Font of the cells (Family is required)
- p_maxline plpdf_type.t_row_maxlines: Maximum number of lines in a multi-line cell
- p_h number default 5: Height of the cells
- p_fill number default 0: Fill
 - o 0: no fill
 - o 1: fill with current fill color
- p_min_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p_clipping number default 0: Clipping text
 - o 0: no clipping
 - o 1: clipping

Return: -

Row_Print4

Type: Procedure

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

Version: v2.1.0

Parameters:

- p_data plpdf_type.t_row_datas: Data shown in the cells
- p_border plpdf_type.t_row_borders: Border array of the cells
- p_width plpdf_type.t_row_widths: Width of the cells
- p_align plpdf_type.t_row_aligns: Alignment of the cells
- p_font plpdf_type.t_row_fonts: Font of the cells (Family is required)
- p_maxline plpdf_type.t_row_maxlines: Maximum number of lines in a multi-line cell
- p_links plpdf_type.t_row_links: Links of the cells
- p_h number default 5: Height of the cells
- p_fill number default 0: Fill
 - o 0: no fill
 - o 1: fill with current fill color
- p_min_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p_clipping number default 0: Clipping text
 - o 0: no clipping
 - o 1: clipping

Return: -

Row_Print4

Type: Procedure

PL/PDF

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

Version: v2.1.0

Parameters:

- p_data plpdf_type.t_row_datas: Data shown in the cells
- p_border plpdf_type.t_row_borders: Border array of the cells
- p_width plpdf_type.t_row_widths: Width of the cells
- p_align plpdf_type.t_row_aligns: Alignment of the cells
- p_font plpdf_type.t_row_fonts: Font of the cells (Family is required)
- p_maxline plpdf_type.t_row_maxlines: Maximum number of lines in a multi-line cell
- p_h number default 5: Height of the cells
- p_fill Plpdf_Type.t_row_filles: Fill color
- p_min_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p_clipping number default 0: Clipping text
 - o 0: no clipping
 - o 1: clipping

Return: -

Row_Print4

Type: Procedure

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

Version: v2.1.0

Parameters:

- p_data plpdf_type.t_row_datas: Data shown in the cells
- p_border plpdf_type.t_row_borders: Border array of the cells
- p_width plpdf_type.t_row_widths: Width of the cells
- p_align plpdf_type.t_row_aligns: Alignment of the cells
- p_font plpdf_type.t_row_fonts: Font of the cells (Family is required)
- p_maxline plpdf_type.t_row_maxlines: Maximum number of lines in a multi-line cell
- p_links plpdf_type.t_row_links: Links of the cells
- p_h number default 5: Height of the cells
- p_fill Plpdf_Type.t_row_filles: Fill colors
- p_min_height number default 0: Minimal height of row, 0 means that this parameter is not used
- p_clipping number default 0: Clipping text
 - o 0: no clipping
 - o 1: clipping

Return: -

setCellMargin

Type: Procedure

Description: Sets the cell margin size.

Version: v1.2.4

Parameters:

- p_margin number: Margin size

Return : -

setCellBottomMargin

Type: Procedure

Description: Sets the cell bottom margin size.

Version: v2.1.0

Parameters :

- p_margin number : Margin size

Return : -

setCellLeftMargin

Type: Procedure

Description: Sets the cell left margin size.

Version: v2.1.0

Parameters :

- p_margin number : Margin size

Return : -

setCellRightMargin

Type: Procedure

Description: Sets the cell right margin size.

Version: v2.1.0

Parameters :

- p_margin number : Margin size

Return : -

setCellTopMargin

Type: Procedure

Description: Sets the cell top margin size.

Version: v2.1.0

Parameters :

- p_margin number : Margin size

Return : -

setColor4Drawing

Type: Procedure

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

Version: v1.2.4

Parameters :

- p_r number : Red component code, can be between 0 and 255
- p_g number default -1 : Green component code, can be between 0 and 255
- p_b number default -1 : Blue component code, can be between 0 and 255

Return : -

setColor4Drawing

Type: Procedure

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

Version: v1.1.6

Parameters:

- p_color plpdf_type.t_color : color

Return: -

setColor4Filling

Type: Procedure

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

Version: v1.2.4

Parameters:

- p_r number : Red component code, can be between 0 and 255
- p_g number default -1 : Green component code, can be between 0 and 255
- p_b number default -1 : Blue component code, can be between 0 and 255

Return: -

setColor4Filling

Type: Procedure

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

Version: v1.1.6

Parameters:

- p_color plpdf_type.t_color : color

Return: -

setColor4Text

Type: Procedure

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

Version: v1.2.4

Parameters:

- p_r number : Red component code, can be between 0 and 255
- p_g number default -1 : Green component code, can be between 0 and 255
- p_b number default -1 : Blue component code, can be between 0 and 255

Return: -

setColor4Text

Type: Procedure

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

Version: v1.1.6

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Parameters :

- p_color plpdf_type.t_color : color

Return : -

setDashPattern

Type: Procedure

Description : Sets the dash pattern for lines inserted after this statement.

Call the procedure without parameter to restore normal drawing.

Version: v1.2.4

Parameters :

- p_line number default null : length of dashes
- p_noline number default null : length of gaps

Return : -

setJS

Type: Procedure

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

Version: v2.1.0

Parameters : -

Return : -

setLineWidth

Type: Procedure

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

Version: v2.3.0

Parameters :

- p_width number : Line thickness

Return : -

setLinkDest

Type: Procedure

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

Version: v1.2.4

Parameters :

- p_link number : Internal link ID returned by CrInternalLink
- p_y number default 0 : Y position on the page, if -1 then the current Y coordinate, if 0 then the top of the page
- p_page number default -1 : Page number, if -1 then the current page

Return : -

setPrintFont

Type: Procedure

Description : Sets the font and its properties.

Version: v1.2.4

Parameters :

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- p_family varchar2 default NULL : Font type
 - o Helvetica (Arial, Sans Serif)
 - o Courier
 - o Times (Serif)
 - o Symbol
 - o ZapfDingBats
 - o If TTF fonts were added using the AddTTF procedure then they may be used here as well.
- p_style varchar2 default NULL : Font style
 - o null: Regular
 - o B: Bold
 - o I: Italic
 - o U: Underline
 - o The styles may be combined (i.e. BI will be Bold and Italic)
- p_size number default 0 : Font size, 0 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: v1.2.4

Parameters :

- p_size number : Font size

Return : -

setRotate

Type: Procedure

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

Version: v1.2.4

Parameters :

- p_angle number : Angle/degree of rotation
- p_x number default -1 : X coordinate of the rotation point, if -1 then the X coordinate of the cursor
- p_y number default -1 : Y coordinate of the rotation point, if -1 then the Y coordinate of the cursor

Return : -

setTillingPattern

Type: Procedure

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

Version: v1.2.4

Parameters :

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

Return : -

startClipping

PL/PDF

Type: Procedure

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

Version: v2.3.0

Parameters:

- p_x number: X coordinate for the start of the clipping frame
- p_y number: Y coordinate for the start of the clipping frame
- p_w number: height of clipping frame
- p_h number: width of clipping frame
- p_end_prev boolean default true: closes previous clipping before start a new clipping

Return: -

startOpacity

Type: Procedure

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

Version: v2.1.0

Parameters:

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

Return: -

startOptCont

Type: Procedure

Description: Start an optional content.

Version: v2.1.0

Parameters:

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

Return: -

Table Of Contents Commands

AddTOCItem

Type: Procedure

Description: Add Table of Contents item.

Version: v1.4.0

Parameters:

- p_txt varchar2: label of TOC item
- p_level number default 0: level, 0 is the highest level
- p_y number default -1: Y position on the page, if -1 then the current Y coordinate, if 0 then the top of the page
- p_page number default -1: Page number, if -1 then the current page
- p_add_link boolean default true: create link from TOC item to page
- p_add_bookmark boolean default false: create bookmark for TOC item

Return: -

AddTOC

Type: Procedure

Description: Construct Table of Contents.

Version: v1.4.0

Parameters:

- p_item_height number default null: height of TOC item cell
- p_stop_footer boolean default true: do not print footer (by executing the footer procedure) in TOC
- p_title_font_family varchar2 default null: font family of title text
- p_title_font_style varchar2 default null: font style (bold, italic, etc.) of title text
- p_title_font_size number default 0: font size of title text
- p_title_height number default null: height of title's cell
- p_title_text varchar2 default null: title of TOC if title is null then no title will be printed
- p_title_body_gap number default 0: gap between title and TOC items
- p_item_font_family varchar2 default null: font family of TOC items
- p_item_font_style varchar2 default null: font style of TOC items
- p_item_font_size number default 0: font size of TOC items
- p_level_indent number default 0: indent size for levels
- p_separator varchar2 default ' ': filler between TOC item and page number
- p_move_to number default 0: move TOC pages to a new page number in PDF
- p_custom_proc varchar2 default null: if a custom procedure is used for creating TOC then it is the name of procedure

Return: -

InTOC

Type: Function

Description: Is current position inside TOC.

Version: v1.4.0

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Parameters : -

Return : boolean : Current position

GetTOCPageNum

Type : Function

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

Version : v1.4.0

Parameters : -

Return : number : actual position

PrintTOCItem

Type : Procedure

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

Version : v1.4.0

Parameters :

- p_item plpdf_type.tr_toc : TOC Item
- p_toc_level_indent number default 0 : indent size for levels
- p_toc_item_height number : height of TOC item cell
- p_toc_separator varchar2 default ' ' : filler between TOC item and page number

Return : -

PrintTOCItem1

Type : Procedure

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

Version : v1.4.0

Parameters :

- p_item plpdf_type.tr_toc : TOC Item

Return : -

TOCInsertGap

Type : Procedure

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

Version : v1.4.0

Parameters :

- p_toc_title_body_gap number : size of gap

Return : -

TOCInsertGap1

Type : Procedure

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

Version : v1.4.0

Parameters : -

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Return : -

PrintTOCTitle

Type: Procedure

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

Version: v1.4.0

Parameters :

- p_toc_title_text varchar2 default null : text of title
- p_toc_title_height number default null : height of title's cell

Return : -

PrintTOCTitle1

Type: Procedure

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

Version: v1.4.0

Parameters : -

Return : -

getTOCItems

Type: Function

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

Version: v1.4.0

Parameters : -

Return : plpdf_type.t_toc

InsMoveTOC

Type: Procedure

Description: Move TOC to specified page number.

Version: v1.4.0

Parameters :

- p_move_to number : page number

Return : -

InsMoveTOC1

Type: Procedure

Description: Move TOC to specified page number using p_move_to parameter in [AddTOC](#).

Version: v1.4.0

Parameters : -

Return : -

Template Related Commands

InsTemplate

Type: Function

Description: Insert a template into the pdf.

Version: v1.4.0

Parameters:

- p_tpl: template data

Return: number: template ID

UseTemplate

Type: Procedure

Description: Use a template.

Version: v1.4.0

Parameters:

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

Return: -

DefaultTemplate

Type: Procedure

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

Version: v2.3.1

Parameters:

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

Return: -

Acroform Related Commands

AcroForm_AddCheckBoxField

Type: Procedure

Description: AcroForm: Add CheckBoxField

Version: v1.6.0

Parameters:

- p_name varchar2: identifier of object
- p_label varchar2 default null: Caption of button
- p_checked boolean default false: If set, the checkbox is checked
- p_default_checked boolean default false: The default value to which the field reverts when a reset-form action is executed
- p_read_only boolean default false: If set, the user may not change the value of the field
- p_required boolean default false: If set, the field must have a value at the time it is exported by a submit-form action
- p_noexport boolean default false: If set, the field must not be exported by a submitform action
- p_print boolean default false: If set, print the field when the page is printed
- p_x number: X coordinate for the field
- p_y number: Y coordinate for the field
- p_height number: The height of the field
- p_gap number default 0: gap between graphical symbol and text
- p_fill_color plpdf_type.t_color default plpdf_const.White: color for filling the field
- p_hint varchar2 default null: The user name to be used when generating error or status messages for the field

Return: -

AcroForm_AddChoiceField

Type: Procedure

Description: AcroForm: Add ChoiceField

Version: v1.6.0

Parameters:

- p_name varchar2: identifier of object
- p_values plpdf_type.t_opt_array: value set of field
- p_value varchar2 default null: value of field
- p_default_value varchar2 default null: The default value to which the field reverts when a reset-form action is executed
- p_combo boolean default false: If set, the field is a combo box; if clear, the field is a list box
- p_edit boolean default false: If set, the combo box includes an editable text box as well as a drop list
- p_short boolean default false: If set, the field's option items should be sorted alphabetically
- p_read_only boolean default false: If set, the user may not change the

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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: AcroForm: Add Push button

Version: v1.6.0

Parameters:

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

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- 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: AcroForm: Add RadiobuttonField

Version: v1.6.0

Parameters :

- p_name varchar2 : identifier of object
- p_values plpdf_type.t_radiobutton_array : value set of field
- p_value varchar2 default null : value of field
- p_default_value varchar2 default null : The default value to which the field reverts when a reset-form action is executed
- p_read_only boolean default false : If set, the user may not change the value of the field
- p_required boolean default false : If set, the field must have a value at the time it is exported by a submit-form action
- p_NoToggleToOff boolean default false : If set, exactly one radio button must be selected at all times
- p_noexport boolean default false : If set, the field must not be exported by a submitform action
- p_print boolean default false : If set, print the field when the page is printed
- p_height number : The height of the field
- p_gap number default 0 : gap between graphical symbol and text
- p_fill_color plpdf_type.t_color default plpdf_const.White : color for filling the field

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- p_hint varchar2 default null: The user name to be used when generating error or status messages for the field

Return: -

AcroForm_AddTextField

Type: Procedure

Description: AcroForm: Add TextField

Version: v1.6.0

Parameters:

- p_name varchar2: identifier of object
- p_value varchar2 default null: value of field
- p_default_value varchar2 default null: The default value to which the field reverts when a reset-form action is executed
- p_maxlength number default 0: The maximum length of the field's text, in characters
- p_multiline boolean default false: If set, the field may contain multiple lines of text
- p_password boolean default false: If set, the field is intended for entering a secure password that should not be echoed visibly to the screen
- p_read_only boolean default false: If set, the user may not change the value of the field
- p_required boolean default false: If set, the field must have a value at the time it is exported by a submit-form action
- p_noexport boolean default false: If set, the field must not be exported by a submitform action
- p_print boolean default false: If set, print the field when the page is printed
- p_x number: X coordinate for the field
- p_y number: Y coordinate for the field
- p_width number: The width of the field
- p_height number: The height of the field
- p_align varchar2 default null: Text alignment
 - o L: left (default)
 - o R: right
 - o C: center
- p_fill_color plpdf_type.t_color default plpdf_const.White: color for filling the field
- p_border_width number default 0: width of border of the field
- p_border_color plpdf_type.t_color default plpdf_const.Black: color of border
- p_font_size_auto boolean default false: If set, the text's size is automatic else use size of current font.
- p_hint varchar2 default null: The user name to be used when generating error or status messages for the field

Return: -

setDigSig

Type: Procedure

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Description: Set digital signature appearances.

Version: v2.5.0

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_x number default 0: X coordinate for the top left corner of the rectangle
- p_y number default 0: Y coordinate for the top left corner of the rectangle
- p_w number default 0: The width of the rectangle
- p_h number default 0: The height of the rectangle
- p_access_perms: The access permissions granted for this document. Defined values are:
 - o 1: No changes to the document are permitted; any change to the document invalidates the signature.
 - o 2: Permitted changes are filling in forms, instantiating page templates, and signing; other changes invalidate the signature.
 - o 3: Permitted changes are those allowed by 2, as well as annotation creation, deletion, and modification; other changes invalidate the signature.

Return: -

Version History

23-JUL-2008, v2.0.0

- setDocDisplayMode: doc extended
- native PNG support (PrintImageCell, PutImage p_type)
- use without InterMedia
- PrintFlowingTextLimit: bad charter handling fixed
- PrintMultiLineCell: bad charter handling fixed
- compress: LZW without Java
- setCompress: new parameter: p_method
- plpdf_const package: new entries
- PutImage: new parameter: p_type
- PrintImageCell: new parameter: p_type

16-MAR-2009, v2.1.0

- AcroForm_AddPushbutton.p_fill_color: handle null
- StartOpacity: new procedure
- EndOpacity: new procedure
- StartOptCont: new procedure
- EndOptCont: new procedure
- setJS: multiline support
- getPrintFontStyle: fix underline
- setCellLeftMargin: new procedure
- setCellRightMargin: new procedure
- setCellTopMargin: new procedure
- setCellBottomMargin: new procedure
- getCellLeftMargin: new procedure
- getCellRightMargin: new procedure
- getCellTopMargin: new procedure
- getCellBottomMargin: new procedure
- PrintFlowingTextLimit: p_clipping: new parameter
- PrintFlowingText: p_clipping: new parameter
- Row_Print: p_clipping: new parameter
- Row_Print2: p_clipping: new parameter
- Row_Print3: p_clipping: new parameter
- Row_Print4: p_clipping: new parameter

01-AUG-2009, v2.2.0

- setRTOL: new procedure
- getPageLeftSpace: new function
- TextSplit: new function
- getPageLeftSpace: new function
- getPageSpace: new function
- setRTOL: new procedure
- getCellMinHeight: new function
- getCellMinWidth: new function

PL/PDF

- extended image support: plpdf_img2 package
- supported image types: JPEG, GIF, PNG
- merged plpdf_text package: plpdf_text2
- native TTF parser: plpdf_ttf_parser, plpdf_gl
- PrintFlowingTextLimit: new parameter
- PrintFlowingText: new parameter

22-MAR-2010, v2.3.0

- CertKeyCheck: new function
- getLeftMargin: new function
- getRightMargin: new function
- getTopMargin: new function
- getBottomMargin: new function
- getHeaderHeight: new function
- getFooterHeight: new function
- getTextWidthFont: new function
- AddScreenAnnotURL: new procedure
- AddScreenAnnotFile: new procedure
- getCellMinHeightFont: new function
- getCellMinWidthFont: new function
- PrintCell: new parameter: p_vert_align
- TextSplit: new parameter: p_maxline
- TextSplitFont: new function
- setLineWidth: fixed
- StartClipping: new parameter: p_end_prev
- setPDFAlB: new procedure

07-OCT-2010, v2.3.1

- DefaultTemplate: new procedure

01-DEC-2010, v2.4.0

- setDigSig: new procedure

01-MAR-2011, v2.5.0

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

08-DEC-2011, v2.6.0

- new: handling non ascii characters in metadata
- AddTTF: new parameter: p_embed
- TextSplit: fixed

PL/PDF

14-JUN-2012, v2.7.0

- setpagenostart, setpagenoend: fixed restart
- printflowingtext, printflowintextlimit: fixed null parameter
- temporary blob: fixed a missing parameter
- setID: new procedure
- attachfile: fixed special characters in filename
- RemoveMissingChars: missing character handling

01-FEB-2013, v2.8.0

- source code optimization
- AttachFile: p_filename: extend the length

01-JUL-2013, v2.9.0

- setHeaderProcName5: new procedure
- setFooterProcName5: new procedure

05-AUG-2013, v2.9.1

- plpdf_rtol: modified handling

05-NOV-2014, v2.9.2

- fix: text field
- new: nopAlias, p_align parameter
- TextSplit: new CLOB splitter
- TextSplitFont: new CLOB splitter
- Remove ACL dependencies