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PL/OFFX_DOCX

DOCX processor and generator

v5.0

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Introduction

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

Links

Overview of the XML file formats in Office 2010: http://technet.microsoft.com/en-us/library/cc179190.aspx
XML Wordprocessing document structrue: http://msdn.microsoft.com/en-us/library/office/qq278308(v=office.15).aspx

Installation

System requirements: Oracle 11g RDBMS Release 2 or higher. Oracle 11g Express Edition is supported.
PL/OFFX_DOCX is a collection of PL/SQL packages. Before using PL/OFFX_DOCX, make sure that the steps described in the InstallationGuide were completed.

Using PL/OFFX_DOCX

Essentially, PL/OFFX_DOCX is a series of calls to PL/OFFX_DOCX 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.

Contact

Contact us at: mailto:info@plpdf.com

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Init

> <u>Type</u>: procedure
> <u>Description</u>: Initializes generator program variables.
> <u>Version</u>: v2.0.0
> <u>Parameters</u>:
>   - p_unit varchar2 default 'mm': Default measurement unit
>   - p_orientation ploffx_document_type.ST_PageOrientation default
>   ploffx_document_type.c_portrait: Page orientation
> <u>Return</u>: -

getScaleFactor

> <u>Type</u>: function
> <u>Description</u>: Gets the scale multiplicator between user OUM and internal point.
> <u>Version</u>: v4.8.0
> <u>Parameters</u>:
>   -
> <u>Return</u>: number: The multiplicator

setPageSize

> <u>Type</u>: procedure
> <u>Description</u>: Set page size setting.
> <u>Version</u>: v4.7.0
> <u>Parameters</u>:
>   - p_w number: Page width
>   - p_h number: Page height
> <u>Return</u>: -

crParagraph

> <u>Type</u>: function
> <u>Description</u>: Create empty paragraph for content.
> <u>Version</u>: v2.0.0
> <u>Parameters</u>:
>   - p_bidi boolean default null: Right to Left Paragraph Layout
>   - p_contextualSpacing boolean default null: Ignore Spacing Above and Below
>   When Using Identical Styles
>   - p_ind ploffx_document_type.CT_Ind default null: Set paragraph indentation
>   - p_alignment varchar2 default null: Paragraph horizontal alignment (left,
>   center, right, justify)
>   - p_numPr ploffx_document_type.CT_NumPr default null: Numbering properties
>   - p_pageBreakBefore boolean default null: Start Paragraph on Next Page
>   - p_border ploffx_document_type.CT_PBdr default null: Paragraph Borders
>   - p_pStyle varchar2 default null: Referenced Paragraph Style
>   - p_spacing ploffx_document_type.CT_Spacing default null: Spacing   Between
>   Lines and Above/Below Paragraph
>   - p_suppressAutoHyphens boolean default null: Suppress   Hyphenation   for
>   Paragraph

- p_suppressLineNumbers boolean default null : Suppress Line Numbers for Paragraph
- p_textAlignment varchar2 default null : Vertical Character Alignment on Line
- p_widowControl boolean default null : Allow First/Last Line to Display on a Separate Page

Return : pls_integer : Index of the created paragraph

crSectionParagraph

Type: function
Description : Create section paragraph for content.
Version: v4.8.0
Parameters :
  - p_cols_space varchar2 default null : Column Definitions
  - p_docgrid_linePitch varchar2 default null : Document Grid
  - p_pgmar_bottom varchar2 default null : Page Margins Bottom
  - p_pgmar_footer varchar2 default null : Page MArgins Footer
  - p_pgmar_gutter varchar2 default null : Page Margins Gutter
  - p_pgmar_header varchar2 default null : Page Margins Header
  - p_pgmar_left varchar2 default null : Page Margins Left
  - p_pgmar_right varchar2 default null : Page Margins Right
  - p_pgmar_top varchar2 default null : Page Margins Top
  - p_pgSz_w varchar2 default null : Page Size Width
  - p_pgSz_h varchar2 default null : Page Size Height
  - p_pgSz_orient varchar2 default null : Page Size Orientation
Return : pls_integer : Index of the created paragraph

addParagraph

Type: procedure
Description : Add paragraph to the document
Version: v2.0.0
Parameters :
  - p_paragraph_id pls_integer : Existing paragraph ID
Return : -

addParagraph

Type: function
Description : Add paragraph to document
Version: v2.0.0
Parameters :
  - p_paragraph_id pls_integer : Existing paragraph ID
Return : pls_integer : The internal index of the new paragraph

addText

Type: procedure
Description : Add text to an existing paragraph.
Version: v4.10
Parameters :

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- p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
- p_text varchar2 : Specifies the value of this text.
- p_bold boolean default null : Bold text.
- p_border ploffx_document_type.CT_Border default null : Specifies text border properties
- p_case varchar2 default null : Specifies U(pper) or L(ower) case
- p_color varchar2 default null : Specifies text color in hexadecimal format
- p_fitText number default null : Display text in fix width.
- p_highlight varchar2 default null : Specifies highlight color around the text.
- p_italic boolean default null : Italic text.
- p_vertPosition number default null : Specifies the amount to be raised or lowered the text relation to the default baseline of the
- p_FontName varchar2 default null : Specifies font family
- p_style varchar2 default null : Specifies the text style
- p_spacing number default null : Specifies the character spacing.
- p_strikeout number default null : Strikeout.
- p_FontSize number default null : Specifies the font size.
- p_underline ploffx_document_type.CT_Underline default null : Specifies the underline properties.
- p_vertAlign varchar2 default null : Specifies the vertical alignment of the text.
  o baseline
  o subscirpt
  o superscritp
- p_w number default null : This element specifies the amount by which each character shall be expanded.

Return : -

addText

Type : function
Description : Add text to an existing paragraph.
Version : v2.0.0
Parameters :
- p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
- p_text varchar2 : Specifies the value of this text.
- p_bold boolean default null : Bold text.
- p_border ploffx_document_type.CT_Border default null : Specifies text border properties
- p_case varchar2 default null : Specifies U(pper) or L(ower) case
- p_color varchar2 default null : Specifies text color in hexadecimal format
- p_fitText number default null : Display text in fix width.
- p_highlight varchar2 default null : Specifies highlight color around the text.
- p_italic boolean default null : Italic text.
- p_vertPosition number default null : Specifies the amount to be raised or lowered the text relation to the default baseline of the
- p_FontName varchar2 default nul : Specifies font family

- p_style varchar2 default null : Specifies the text style
- p_spacing number default null : Specifies the character spacing.
- p_strikeout number default null : Strikeout.
- p_FontSize number default null : Specifies the font size.
- p_underline ploffx_document_type.CT_Underline default null : Specifies the underline properties.
- p_vertAlign varchar2 default null : Specifies the vertical alignment of the text.
  o baseline
  o subscirpt
  o superscritp
- p_w number default null : This element specifies the amount by which each character shall be expanded.
Return : pls_integer : The internal index of the text object

addInstrText

Type: function
Description : Adds Field Code to an existing paragraph.
Version: v4.9.4
Parameters :
  - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
  - p_instrText varchar2 : Specifies the value of this field code.
  - p_RPr ploffx_document_type.CT_RPr default null : the field code run properties
Return : pls_integer : The internal index of the text object

addfldChar

Type: function
Description : Adds Complex Field Char to an existing paragraph.
Version: v4.8.2
Parameters :
  - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
  - p_fldCharType varchar2 : Specifies the value of this field char.
Return : pls_integer : The internal index of the text object

crRun

Type: function
Description : Creates text run structure from text and run properties.
Version: v4.8.0
Parameters :
  - p_text varchar2 : The text as string
  - p_RPr ploffx_document_type.CT_RPr : The run properties
Return : pls_integer : The internal structure of the created object

addRun

<u>Type</u>: function

<u>Description</u>: Adds Run as a structure to an existing paragraph.

<u>Version</u>: v4.8.0

<u>Parameters</u>:

  - p_paragraph_id pls_integer: Specifies a reference to a previously defined
      paragraph.
  - p_run ploffx_document_type.CT_R: The run as internal structure

<u>Return</u>: pls_integer: The internal index of the run object

addRun

<u>Type</u>: procedure

<u>Description</u>: Adds Run as a structure to an existing paragraph.

<u>Version</u>: v4.8.0

<u>Parameters</u>:

  - p_paragraph_id pls_integer: Specifies a reference to a previously defined
      paragraph.
  - p_run ploffx_document_type.CT_R: The run as internal structure

<u>Return</u>: -

addBR

<u>Type</u>: function

<u>Description</u>: Adds Break to an existing paragraph.

<u>Version</u>: v4.5.0

<u>Parameters</u>:

  - p_paragraph_id pls_integer: Specifies a reference to a previously defined
      paragraph.
  - p_clear varchar2 default null: Restart Location For Text Wrapping Break
  - p_type varchar2 default null: Break Type, see
      ploffx_document_type.ST_BrType
    o column: Column Break
    o page: Page Break
    o textWrapping: Line Break

<u>Return</u>: pls_integer: The internal index of the run object

addBR

<u>Type</u>: procedure

<u>Description</u>: Adds Break to an existing paragraph.

<u>Version</u>: v4.8.0

<u>Parameters</u>:

  - p_paragraph_id pls_integer: Specifies a reference to a previously defined
      paragraph.
  - p_clear varchar2 default null: Restart Location For Text Wrapping Break
  - p_type varchar2 default null: Break Type, see
      ploffx_document_type.ST_BrType
    o column: Column Break
    o page: Page Break
    o textWrapping: Line Break

<u>Return</u>: -

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setListLevel

    <u>Type</u>: procedure

    <u>Description</u> : Set paragraph to a list element.

    <u>Version</u>: v2.0.0

    <u>Parameters</u> :

      - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.

      - p_level pls_integer default 0 : Specifies the list level.

      - p_numId pls_integer default 1 : Specifies a reference to the list.

    <u>Return</u> : -

AddHeader

    <u>Type</u>: procedure

    <u>Description</u> : Add paragraph to the document header.

    <u>Version</u>: v3.0.0

    <u>Parameters</u> :

      - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.

      - p_type ploffx_document_type.ST_HdrFtr default ploffx_document_type.c_default : Specifie

       o default

       o even

       o first

    <u>Return</u> :

AddFooter

    <u>Type</u>: procedure

    <u>Description</u> : Add paragraph to the document footer.

    <u>Version</u>: v3.0.0

    <u>Parameters</u> :

      - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.

      - p_type ploffx_document_type.ST_HdrFtr default ploffx_document_type.c_default : Specifie

       o default

       o even

       o first

    <u>Return</u> :

crTable

    <u>Type</u>: function

    <u>Description</u> : Create table.

    <u>Version</u>: v4.8.1

    <u>Parameters</u> :

      - p_width number default null : Specifies the table width.

      - p_alignment varchar2 default ploffx_document_type.c_left :   Specifies   the table alignment.

      - p_tblStyle varchar2 default null : Specifies the table style.

    <u>Return</u> : pls_integer : Index of the created table

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addTable

    <u>Type</u>: function
    <u>Description</u>: Add previously defined table to the document.
    <u>Version</u>: v2.0.0
    <u>Parameters</u>:
      - p_table_id pls_integer: Specifies a reference to a previously defined table.
    <u>Return</u>: pls_integer: Index of the created table.

addTable

    <u>Type</u>: procedure
    <u>Description</u>: Add previously defined table to the document.
    <u>Version</u>: v4.8.0
    <u>Parameters</u>:
      - p_table_id pls_integer: Specifies a reference to a previously defined table.
    <u>Return</u>: -

setTableBorders

    <u>Type</u>: procedure
    <u>Description</u>: Customize a previously defined table border properties.
    <u>Version</u>: v2.0.0
    <u>Parameters</u>:
      - p_table_id pls_integer: Specifies a reference to a previously defined table.
      - p_style varchar2 default null: Specifies the border style.
      - p_width number default null: Specifies the border width.
      - p_space number default null: Specifies the space between the border and the content.
      - p_color varchar2 default null: Specifies the border color.
    <u>Return</u>: -

setTableTopBorder

    <u>Type</u>: procedure
    <u>Description</u>: Customize a previously defined table top border properties.
    <u>Version</u>: v4.7.0
    <u>Parameters</u>:
      - p_table_id pls_integer: Specifies a reference to a previously defined table.
      - p_style varchar2 default null: Specifies the border style.
      - p_width number default null: Specifies the border width.
      - p_space number default null: Specifies the space between the border and the content.
      - p_color varchar2 default null: Specifies the border color.
    <u>Return</u>: -

setTableBottomBorder

Type: procedure

Description: Customize a previously defined table bottom border properties.

Version: v4.7.0

Parameters:

  - p_table_id pls_integer: Specifies a reference to a previously defined table.
  - p_style varchar2 default null: Specifies the border style.
  - p_width number default null: Specifies the border width.
  - p_space number default null: Specifies the space between the border and the content.
  - p_color varchar2 default null: Specifies the border color.

Return: -

setTableLeftBorder

Type: procedure

Description: Customize a previously defined table left border properties.

Version: v4.7.0

Parameters:

  - p_table_id pls_integer: Specifies a reference to a previously defined table.
  - p_style varchar2 default null: Specifies the border style.
  - p_width number default null: Specifies the border width.
  - p_space number default null: Specifies the space between the border and the content.
  - p_color varchar2 default null: Specifies the border color.

Return: -

setTableRightBorder

Type: procedure

Description: Customize a previously defined table right border properties.

Version: v4.7.0

Parameters:

  - p_table_id pls_integer: Specifies a reference to a previously defined table.
  - p_style varchar2 default null: Specifies the border style.
  - p_width number default null: Specifies the border width.
  - p_space number default null: Specifies the space between the border and the content.
  - p_color varchar2 default null: Specifies the border color.

Return: -

setTableInsideBorder

Type: procedure

Description: Customize a previously defined table InsideH border properties.

Version: v4.7.0

Parameters:

  - p_table_id pls_integer: Specifies a reference to a previously defined table.

- p_style varchar2 default null : Specifies the border style.
- p_width number default null : Specifies the border width.
- p_space number default null : Specifies the space between the border and the content.
- p_color varchar2 default null : Specifies the border color.

<u>Return</u> : -

setTableInsideVBorder

<u>Type</u>: procedure
<u>Description</u> : Customize a previously defined table InsideV border properties.
<u>Version</u>: v4.7.0
<u>Parameters</u> :
- p_table_id pls_integer : Specifies a reference to a previously defined table.
- p_style varchar2 default null : Specifies the border style.
- p_width number default null : Specifies the border width.
- p_space number default null : Specifies the space between the border and the content.
- p_color varchar2 default null : Specifies the border color.

<u>Return</u> : -

AddRow

<u>Type</u>: function
<u>Description</u> : Add row to a previously defined table.
<u>Version</u>: v4.5.0
<u>Parameters</u> :
- p_table_id pls_integer : Specifies a reference to a previously defined table.
- p_alignment varchar2 default null : Specifies the alignment of the row.
- p_height number default null : Specifies the height of the row.
- p_tblheader boolean default null : Repeat table row on every new page.

<u>Return</u> : pls_integer : Index of the created row.

AddCell

<u>Type</u>: function
<u>Description</u> : Add cell to a previously defined table row.
<u>Version</u>: v4.9.7
<u>Parameters</u> :
- p_table_id pls_integer : Specifies a reference to a previously defined table.
- p_row_id pls_integer : Specifies a reference to a previously defined row.
- p_noWrap boolean default null : NoWrap.
- p_width number default null : Specifies the width of the cell.
- p_gridSpan pls_integer default null : This element specifies the number of grid columns which shall be spanned by the current cell.
- p_vMerge ploffx_document_type.CT_VMerge default null :   This   element specifies that this cell is part of a vertically merged set of cells in a table.

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- p_cellBorder ploffx_document_type.CT_TcBorders default null : Specifies the border of the cell.
- p_background ploffx_document_type.ST_HexColor default null : Specifies the background color of the cell.

Return : pls_integer : Index of the created cell.

TableaddParagraph

Type : procedure
Description : Add previously defined paragraph to a cell of table.
Version : v2.0.0
Parameters :
- p_table_id pls_integer : Specifies a reference to a previously defined table.
- p_row_id pls_integer : Specifies a reference to a previously defined row.
- p_cell_id pls_integer : Specifies a reference to a previously defined cell.
- p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.

TableaddParagraph

Type : function
Description : Add previously defined paragraph to a cell of table.
Version : v2.0.0
Parameters :
- p_table_id pls_integer : Specifies a reference to a previously defined table.
- p_row_id pls_integer : Specifies a reference to a previously defined row.
- p_cell_id pls_integer : Specifies a reference to a previously defined cell.
- p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.

Return : pls_integer : The internal index of the paragraph

addInlineImage

Type : procedure
Description : Add inline image to a paragraph.
Version : v4.9.1
Parameters :
- p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
- p_name varchar2 : Specifies the image name.
- p_file in out nocopy blob : Specifies a reference to the image source blob.
- p_width number default null : Specifies the image width.
- p_height number default null : Specifies the image height.

addInlineImage

Type : function
Description : Add inline image to a paragraph.
Version : v4.9.1

Parameters :
  - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
  - p_name varchar2 : Specifies the image name.
  - p_file in out nocopy blob : Specifies a reference to the image source blob.
  - p_width number default null : Specifies the image width.
  - p_height number default null : Specifies the image height.
Return : pls_integer : tThe internal index of the image

SetBackground

Type: procedure
Description : Change the background color of document.
Version: v2.0.0
Parameters :
  - p_backcolor varchar2 : Specifies the background color of document, in hexadecimal RGB code.
Return : -

addTabStop

Type: procedure
Description : Add tab stop to a selected paragraph
Version: v2.0.0
Parameters :
  - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
  - p_val ploffx_document_type.ST_TabJc : Specifies the type of tab stop.
  - p_pos number : Specifies the position of tab stop.
  - p_leader ploffx_document_type.ST_TabTlc default
  ploffx_document_type.c_none_Tlc : Specifies the character which shall be used to fill in the space created by a tab which ends at this custom tab stop
Return : -

addImage

Type: function
Description : Add inline image to a paragraph.
Version: v4.9.1
Parameters :
  - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
  - p_name varchar2 : Specifies the image name.
  - p_file in out nocopy blob : Specifies a reference to the image source blob.
  - p_width number default null : Specifies the image width.
  - p_height number default null : Specifies the image height.
  - p_x number : Specifies the image x coordinate of position.
  - p_y number : Specifies the image y coordinate of position.
  - p_textWrap varchar2 default 'wrapSquare' : Specifies the text wrap around the image.
  - p_relativeFromH varchar2 default 'column' : This element specifies the

horizontal positioning of the image.
- p_relativeFromV varchar2 default 'paragraph': This element specifies the vertical positioning of the image.
- p_locked boolean default false: Lock the image location when an application edits the document.
- p_layoutInCell boolean default true: Specifies how image shall behave when its anchor is located in a table cell.
- p_allowOverlap boolean default true: Specifies how image shall behave when its anchor is located in a table cell display time shall be allowed to overlap the contents of the other image.
- p_behindDoc varchar2 default 'false': Specifes the image to be displayed behind or above of the content.

Return: pls_integer: Index of the added image.

addImage

Type: procedure
Description: Add inline image to a paragraph.
Version: v4.9.4
Parameters:
- p_paragraph_id pls_integer: Specifies a reference to a previously defined paragraph.
- p_name varchar2: Specifies the image name.
- p_file in out nocopy blob: Specifies a reference to the image source blob.
- p_width number default null: Specifies the image width.
- p_height number default null: Specifies the image height.
- p_x number: Specifies the image x coordinate of position.
- ?p_y number: Specifies the image y coordinate of position.
- p_textWrap varchar2 default 'wrapSquare': Specifies the text wrap around the image.
- p_relativeFromH varchar2 default 'column': This element specifies the horizontal positioning of the image.
- p_relativeFromV varchar2 default 'paragraph': This element specifies the vertical positioning of the image.
- p_locked boolean default false: Lock the image location when an application edits the document.
- p_layoutInCell boolean default true: Specifies how image shall behave when its anchor is located in a table cell.
- p_allowOverlap boolean default true: Specifies how image shall behave when its anchor is located in a table cell display time shall be allowed to overlap the contents of the other image.
- p_behindDoc varchar2 default 'false': Specifes the image to be displayed behind or above of the content.

Return: -

AddSectionP

Type: function
Description: Add section for paragraph.
Version: v2.0.0
Parameters:

- p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
- p_num number default null : Specifies the number of columns.
- p_space number default null : Specifies the space between the columns.
- p_type ploffx_document_type.ST_SectionMark : Specifies the type of the break point.

Return : pls_integer : Index of the added section.

AddSectionB

Type: function
Description : Add section for body.
Version: v2.0.0
Parameters :
- p_paragraph_id pls_integer default null : Specifies a reference to a previously defined paragraph. If null, then will be create a new paragraph.
- p_num number default null : Specifies the number of columns.
- p_space number default null : Specifies the space between the columns.
- p_type ploffx_document_type.ST_SectionMark : Specifies the type of the break point.

Return : pls_integer : Index of the added section.

setSectPrPg

Type: procedure
Description : Set section properties.
Version: v2.0.0
Parameters :
- p_section_id pls_integer default 0 : Specifies a reference to a previously defined section.
- p_w plx_sc.normalv2 default null : Specifies the page width.
- p_h plx_sc.normalv2 default null : Specifies the page height.
- p_orient ploffx_util.t_string default null : Specifies the page orientation.
- p_code plx_sc.normalv2 default null : Specifies a printer-specific paper code.
- p_bottom plx_sc.normalv2 default null : Specifies the distance between the bottom of the text margins for the main document and the bottom of the page for all pages in this section.
- p_footer plx_sc.normalv2 default null : Specifies the distance from the bottom edge of the page to the bottom edge of the footer.
- p_gutter plx_sc.normalv2 default null : Specifies the page gutter for each page in the current section.
- p_header plx_sc.normalv2 default null : Specifies the distance from the top edge of the page to the top edge of the header.
- p_left plx_sc.normalv2 default null : Specifies the distance between the left edge of the page and the left edge of the text extents for this document
- p_right plx_sc.normalv2 default null : Specifies the distance between the right edge of the page and the right edge of the text extents for this document.

- p_top plx_sc.normalv2 default null: Specifies the distance between the top
  of the text margins for the main document and the top of the page for all
  pages in this section.

Return: -

addSectionColumn

Type: procedure
Description: Add section column to a previously created section.
Version: v2.0.0
Parameters:
  - p_section_id pls_integer default 0: Specifies a reference to a previously
    defined section.
  - p_num number: Number of columns.
  - p_space number: Space between columns.
Return: -

addPageNumField

Type: function
Description: Add page number to a header or footer paragraph.
Version: v2.0.0
Parameters:
  - p_paragraph_id pls_integer: Specifies a reference to a previously defined
    paragraph. If null, then will be create a new paragraph.
  - p_format varchar2 default ' * Arabic ': Specifies the format of the page
    number. In default case it use the arabic numbers.
Return: pls_integer: Index of the added page number.

addPageNumField

Type: procedure
Description: Add page number to a header or footer paragraph.
Version: v4.9.4
Parameters:
  - p_paragraph_id pls_integer: Specifies a reference to a previously defined
    paragraph. If null, then will be create a new paragraph.
  - p_format varchar2 default ' * Arabic ': Specifies the format of the page
    number. In default case it use the arabic numbers.
Return: -

addDateField

Type: function
Description: Add date field to a paragraph.
Version: v2.0.0
Parameters:
  - p_paragraph_id pls_integer: Specifies a reference to a previously defined
    paragraph.
  - p_format varchar2 default ' \@ yyyy-MM-dd': Specifies the date format.
Return: pls_integer: Index of the added date field.

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addDateField

    <u>Type</u>: procedure
    <u>Description</u> : Add date field to a paragraph.
    <u>Version</u>: v4.9.4
    <u>Parameters</u> :
      - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
      - p_format varchar2 default ' \@ yyyy-MM-dd' : Specifies the date format.
    <u>Return</u> : -

addAuthorField

    <u>Type</u>: function
    <u>Description</u> : Add author field to a previously defined paragraph.
    <u>Version</u>: v2.0.0
    <u>Parameters</u> :
      - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
      - p_format varchar2 default null : Specifies the date format.
    <u>Return</u> : pls_integer : Index of the added author field.

addAuthorField

    <u>Type</u>: procedure
    <u>Description</u> : Add author field to a previously defined paragraph.
    <u>Version</u>: v4.9.4
    <u>Parameters</u> :
      - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
      - p_format varchar2 default null : Specifies the date format.
    <u>Return</u> : -

addHyperLink

    <u>Type</u>: procedure
    <u>Description</u> : Add hyperlink to a previously defined paragraph.
    <u>Version</u>: v2.0.0
    <u>Parameters</u> :
      - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
      - p_text varchar2 : The hyperlink text.
      - p_url varchar2 : The hyperlink URL
      - p_bold boolean default null : Bold text.
      - p_border ploffx_document_type.CT_Border default null : Specifies hyperlink border.
      - p_case varchar2 default null : U(pper)/L(ower)case.
      - p_color varchar2 default null : Specifies hyperlink text color.
      - p_fitText number default null : Display text in fix width.
      - p_highlight varchar2 default null : Specifies highlight color around the text.

- p_italic boolean default null : Italic text.
- p_vertPosition number default null : Specifies the amount to be raised or lowered the text relation to the default baseline of the
- p_FontName varchar2 default nul : Specifies font family
- p_style varchar2 default null : Specifies the text style
- p_spacing number default null : Specifies the character spacing.
- p_strikeout number default null : Strikeout.
- p_FontSize number default null : Specifies the font size.
- p_underline ploffx_document_type.CT_Underline default null : Specifies the underline properties.
- p_vertAlign varchar2 default null : Specifies the vertical alignment of the text.
  - o baseline
  - o subscirpt
  - o superscritp
- p_w number default null : This element specifies the amount by which each character shall be expanded.

Return : pls_integer : The internal index of the hyperlink object.

addHyperLink

Type: function
Description : Add hyperlink to a previously defined paragraph.
Version: v2.0.0
Parameters :
- p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
- p_text varchar2 : The hyperlink text.
- p_url varchar2 : The hyperlink URL
- p_bold boolean default null : Bold text.
- p_border ploffx_document_type.CT_Border default null : Specifies hyperlink border.
- p_case varchar2 default null : U(pper)/L(ower)case.
- p_color varchar2 default null : Specifies hyperlink text color.
- p_fitText number default null : Display text in fix width.
- p_highlight varchar2 default null : Specifies highlight color around the text.
- p_italic boolean default null : Italic text.
- p_vertPosition number default null : Specifies the amount to be raised or lowered the text relation to the default baseline of the
- p_FontName varchar2 default nul : Specifies font family
- p_style varchar2 default null : Specifies the text style
- p_spacing number default null : Specifies the character spacing.
- p_strikeout number default null : Strikeout.
- p_FontSize number default null : Specifies the font size.
- p_underline ploffx_document_type.CT_Underline default null : Specifies the underline properties.
- p_vertAlign varchar2 default null : Specifies the vertical alignment of the text.
  - o baseline
  - o subscirpt

     o superscritp

  - p_w number default null : This element specifies the amount by which each character shall be expanded.

addTableOfContent

    <u>Type</u>: function
    <u>Description</u> : Add table of content to a previously defined paragraph.
    <u>Version</u>: v2.0.0
    <u>Parameters</u> :
      - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
    <u>Return</u> : pls_integer : Index of the added table of content.

addTableOfContent

    <u>Type</u>: procedure
    <u>Description</u> : Add table of content to a previously defined paragraph.
    <u>Version</u>: v4.9.4
    <u>Parameters</u> :
      - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
    <u>Return</u> : -

addField

    <u>Type</u>: function
    <u>Description</u> : Add field to a perviously defined paragraph.
    <u>Version</u>: v2.0.0
    <u>Parameters</u> :
      - p_paragraph_id pls_integer : Specifies a reference to a previously defined paragraph.
      - p_code varchar2 : Specifies the field codes for the simple field.
    <u>Return</u> : pls_integer : Index of the added field.

getDoc

    <u>Type</u>: procedure
    <u>Description</u> : Returns the generated document. The document is closed and then returned.
    <u>Version</u>: v2.0.0
    <u>Parameters</u> : -
    <u>Return</u> : -

parseDoc

    <u>Type</u>: Processing docx files.
    <u>Description</u> :
    <u>Version</u>: v2.0.0
    <u>Parameters</u> : -
    <u>Return</u> : -

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crList

Type: function
Description : Returns the ID of the created list.
Version: v3.0.0
Parameters :
  - p_startValue pls_integer default 1 : Specifies the starting number for the listing.
  - p_symbol XT_NUMBERING default numbering_symbol : Specifies the style of the list.
Return : pls_integer

AddListElement

Type: procedure
Description : Adds an element to a list
Version: v3.0.0
Parameters :
  - p_paragraph_id pls_integer : Specifies the paragraph of the element that will be added to the list
  - p_level pls_integer default 0 : Specifies the level of the element(0-8)
  - p_list pls_integer default 1 : Specifies the list for the element to be added to.
Return : -

crParagraphBorder

Type: function
Description : Creates a paragraph border
Version: v3.0.0
Parameters :
  - p_top ploffx_document_type.CT_Border default null : Specifies the top border of the paragraph
  - p_bottom ploffx_document_type.CT_Border default null : Specifies the bottom border of the paragraph
  - p_left ploffx_document_type.CT_Border default null : Specifies the left border of the paragraph
  - p_right ploffx_document_type.CT_Border default null : Specifies the right border of the paragraph
Return : ploffx_document_type.CT_PBdr : Returns a paragraph border which can be passed to crParagraph function

crBorder

Type: function
Description : Creates a paragraph border
Version: v3.0.0
Parameters :
  - p_style ploffx_document_type.ST_Border default null : Specifies the style of the border
  - p_color ploffx_document_type.ST_HexColor default null : Specifies the color

of the border
- p_width number default null : Specifies the width of the border in points
- p_spacing number default null : Specifies the spacing between the border and the area
- p_shadow boolean default null : Specifies the border has shadow
- p_frame boolean default null : Specifies the border has frame

Return : ploffx_document_type.CT_Border : Returns a border which can be passed to crParagraphBorder function or AddText procedure

crIndentation

Type: function
Description : Creates an identation
Version: v3.0.0
Parameters :
- p_left number default null : Specifies the left identation of the paragraph in units
- p_right number default null : Specifies the right identation of the paragraph in units
- p_hanging number default null : Specifies the hanging identation in units
- p_firstLine number default null : Specifies the identation of the first of the paragraph in units

Return : ploffx_document_type.CT_PBdr : Returns an identation which can be passed to crParagraph function

crSpacing

Type: function
Description : Creates a paragraph spacing
Version: v3.0.0
Parameters :
- p_before number default null : Specifies the spacing before the paragraph in points
- p_after number default null : Specifies the spacing after the paragraph in points
- p_linespace number default null : Specifies the line spacing of the paragraph in lines

Return : ploffx_document_type.CT_Spacing : Returns a paragraph spacing which can be passed to crParagraph function

crCellBorder

Type: function
Description : Creates a table cell border
Version: v3.5.0
Parameters :
- p_top ploffx_document_type.CT_Border default null : Specifies the top side border
- p_bottom ploffx_document_type.CT_Border default null : Specifies the bottom side border
- p_left ploffx_document_type.CT_Border default null : Specifies the left side

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    border
  - p_right ploffx_document_type.CT_Border default null : Specifies   the   right
      side border
Return : ploffx_document_type.CT_TcBorders : Returns   a   border   which   can   be
    passed to crCell function

getDocument

Type: function
Description : Get the full docx document structure.
Version: v3.6.0
Parameters : –
Return : –

crUnderline

Type: function
Description : Create underline line type.
Version: v3.6.0
Parameters :
  - p_type ploffx_document_type.ST_Underline : Create underline type.
Return : ploffx_document_type.CT_Underline : Return a line type which using to
    underline.

AddToHeader

Type: procedure
Description : Add an existing element to the document header.
Version: v3.0.0
Parameters :
  - p_header ploffx_document_type.ST_HdrFtr default
  ploffx_document_type.c_default_hfr : Specifies the header type
  - p_element_id pls_integer : Specifies the element id.
Return : –

AddToFooter

Type: procedure
Description : Add an existing element to the document footer.
Version: v3.0.0
Parameters :
  - p_footer ploffx_document_type.ST_HdrFtr default
  ploffx_document_type.c_default_hfr : Specifies the header type
  - p_element_id pls_integer : Specifies the element id.
Return : –