



StreamServe Persuasion SP4 Page Layout Template

User Guide

Rev A

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Using a Page Layout Template

A Page Layout Template file (*.plt) is an XML file that describes all objects and their properties in a PageOUT Process. You can apply a Page Layout Template (PLT) file to a PageOUT Process and automatically generate the Process based on the template layout.

When you apply a Page Layout Template to a PageOUT Process, StreamServe creates a temporary XML file (xml.txt) in the Init directory specified for the Project. This file describes the elements, attributes, and values of the Page Layout Template in XML format. You can edit the PLT file and change the properties of the page layout.

For information on elements, attributes, and values of the Page Layout Template file, see [Page Layout Template elements](#) on page 8.

Example 1 Page Layout Template file (*.plt)

```
<?xml version="1.0" encoding="windows-1252"?>
<layoutdef eventid="plt test" processid="test new plt functionality"
  width="120" height="48"
  unit="matrix" lpi="6" cpi="10" wd="c:\temp\tmp">
<script type="before_process">This is a before process script(sth01)</
  script>
<script type="after_process">This is a after process script(sth01);second
  row!!</script>
<page type="first">
<script type="after">This is a page script on first page(after);</script>
<script type="before">This is a page script on first page (before);</script>
<overlay lookup_key="$key" lookup_table="table.tbl" attrib="verso"
  path="\lxf\test file with lxf.lxf"></overlay>
<field x="104" y="004" type="label" font="script" id="XLI0300" wrap="wrap"
  height="10" width="20">First Page:</field>
<field x="104" y="006" type="label" font="script" id="XLI0300">First
  Page:</field>
<rect x="010" y="005" width="10" height="10"></rect>
<line x="010" y="003" x1="030" y1="003"></line>
<frame x="20" y="20" width="20" overflow="25" height="15" id="test 1">
<script type="before">This is a Frame script(before);</script>
<block id="CRS3981D">
<script type="before">This is a Block script(before);</script>
<field x="002" y="001" type="label" id="WDI0115">Division.....</field>
<field x="018" y="001" type="field" align="right" wrap="wrap" rotate="90"
  color="0:255:0">1DCVDIVI</field>
</block>
</frame>
</page>
</layoutdef>
....
```

Applying a Page Layout Template file

You can apply a Page Layout Template file (*.plt) to a PageOUT Process and automatically generate the Process based on the template layout.

To apply a Page Layout Template to a PageOUT Process

- 1 In PageOUT, select **Tools > Apply Layout Template**. The Open dialog box opens.
- 2 Browse to, and select the Page Layout Template file (*.plt) you want to import. Click **Open**.



When you apply a Page Layout Template file (*.plt) to a PageOUT Process, all existing layout objects are overwritten.

- 3 PageOUT displays a warning message that all existing layout objects will be overwritten when you apply the Page Layout Template file. Click **Yes** to continue.

Syntax

Page Layout Template files (*.plt) are written in XML.

Limitations

- All attributes of an element must be included on the same line as the element start tag.
- PLT syntax has the same constraints as XML regarding special characters [`<`, `>`, `'`, `"`, `%`] and the `"]]">` string. You should avoid these special characters and `"]]">` string in PLT files.
- Element and attribute names are not case sensitive.

For a formal description of the PLT syntax (Document Type Definition), see [Document type definition](#) on page 31.

Page Layout Template elements

The following section describes the elements contained within a Page Layout Template file (*.plt).

LayoutDef element

The `LayoutDef` element is the root element of a PLT file. `LayoutDef` contains one or more elements of type `Page`. The default page type, `Body`, is applied by default to all elements, except the `Page` element.

Attributes	Description
<code>eventid</code>	Mandatory. The name of the Event that defines the Message for the PageOUT Process.
<code>processid</code>	Mandatory. The name of the PageOUT Process.
<code>unit</code>	The unit value. Possible values are: <ul style="list-style-type: none"> <code>matrix</code> — set height calculated by <code>LPI</code> (lines per inch) and <code>CPI</code> (columns per inch) attributes. Default. <code>mm</code> — millimeter <code>inch</code>
<code>width</code>	The page width according to the <code>unit</code> value. If the <code>unit</code> value is <code>matrix</code> , the width specifies the default page width in characters according to the <code>CPI</code> value (characters per inch). Otherwise, the width specifies the page width in inches or millimeters according to the <code>unit</code> value.
<code>height</code>	The page height according to the <code>unit</code> value. If the <code>unit</code> value is <code>matrix</code> , then the height specifies the default page height in lines according to the <code>LPI</code> value (height in inches = height/LPI). Otherwise, the height specifies the page height in inches or millimeters according to the <code>unit</code> value.
<code>LPI</code>	If the <code>unit</code> value is <code>matrix</code> , <code>LPI</code> specifies the number of lines per inch. If the <code>unit</code> value is <code>inch</code> or <code>millimeter</code> , <code>LPI</code> specifies the number of grid rows according to the <code>gridunit</code> value. Default value is 6.
<code>CPI</code>	If the <code>unit</code> value is <code>matrix</code> , <code>CPI</code> specifies the number of characters per inch. If the <code>unit</code> value is <code>inch</code> or <code>millimeter</code> , <code>CPI</code> specifies the number of grid columns according to the <code>gridunit</code> value. Default value is 10.

Attributes	Description
gridunit	The unit used for positioning objects on a grid. Possible values are: <ul style="list-style-type: none"> • inch. Default. • mm — millimeter • point Horizontal positions are calculated as $1 \text{ gridunit}/\text{CPI}$, vertical positions as $1 \text{ gridunit}/\text{LPI}$.
restoregrid	Restores the page grid settings to the values that were set before applying the Page Layout Template to the PageOUT Process. Possible values are: <ul style="list-style-type: none"> • True • False. Default.
wd	The path to the working directory for Image and Overlay elements.

Example 2 *LayoutDef element*

```
<layoutdef eventid="plt_event" processid="plt_process" unit="mm"
width="210" height="297" gridunit="inch" LPI="72" CPI="72"
wd="C:\temp"></layoutdef>
```

This example will create a PageOUT Process with a default page size of 210 x 297mm (A4), and a grid in points (1/72 inch).

Page element

The `Page` element specifies the properties of pages within a PageOUT Process. By default, a PageOUT Process always contains one Body page.

Attributes	Description
type	The name of the page type in PageOUT. Possible values are: <ul style="list-style-type: none"> • Before • First • Body — default • Last • Single • After

Attributes	Description
id	The name of the Before or After pages to appear in the Page Browser. If you do not specify a value, these pages will be named 'Other' by default.

Example 3 *Page element*

```
<page type="before" id="Page before"></page>
```

Frame element

The `Frame` element inserts an area on a page that contains one or more `Block` elements.

Attributes	Description
id	The name of the frame. If not specified, the frame is called <code>New Frame_#</code> , where # is a sequence number allocated by PageOUT.
x	The x-coordinate for the top left corner of the frame, that is, the distance from the left edge of the page. Default value is 0.
y	The y-coordinate for the top left corner of the frame, that is, the distance from the top of the page. Default value is 0.
height	The height of the frame. Default value is 0.
width	The width of the frame. Default is the page width.
x_var	A variable containing the x-coordinate for the top left corner of the frame.
y_var	A variable containing the y-coordinate for the top left corner of the frame.
height_var	A variable containing the height of the frame.
width_var	A variable containing the width of the frame.
overflow	The height of the frame allowing for overflow, overriding the specified height value. If a y-coordinate is not specified, the overflow attribute also calculates the start of the frame. If the y-coordinate and width are not specified, the overflow attribute defines the frame width as the entire page width.

Attributes	Description
outline	The thickness of the frame borderline in millimeters.
line_color	The color of the frame borderline. The value is specified as <red>:<green>:<blue> where <red>, <green> and <blue> are in the range from 0 to 255. Default values are 0:0:0 (black).
fill_color	The fill color of the frame. The value is specified as <red>:<green>:<blue> where <red>, <green> and <blue> are in the range from 0 to 255. Default values are 0:0:0 (black).
round	The rounding of the frame corners (in mm of radius).

Example 4 *Frame element*

```
<frame id="Item Lines" x="10" y="6" width="100" height="36">
</frame>
```

Block element

A `Block` element specifies properties for a `Block`.

Attributes	Description
id	Mandatory. The name of the block in PageOUT. Unless you are using a free block, the block must exist in the Message.
type	The block type. Possible values are: <ul style="list-style-type: none">" " (empty for a standard block)freeblock

Attributes	Description
autoheight	<p>Determines how the height for the block is set. Possible values are:</p> <p>True The height of the block is adjusted automatically. Default, if the <code>unit</code> value is <code>mm</code> or <code>inch</code>. If the height is not set, and the <code>unit</code> value is <code>mm</code> or <code>inch</code>, the block height defaults to 4.233 mm.</p> <p>False The height of the block is set by the Use line (fixed height) option. Default, if the <code>unit</code> value is <code>matrix</code>. If the height is not set, and the <code>unit</code> value is <code>matrix</code>, the block height is calculated by the <code>LPI</code> (lines per inch) and <code>CPI</code> (columns per inch) attributes.</p> <p>Note: If you do not specify a value for the <code>autoheight</code> or <code>height</code> attributes, the <code>autoheight</code> attribute defaults according to the <code>unit</code> value, see above.</p>
height	<p>The height of the block (in millimeters).</p> <p>Note: If the <code>height</code> value is specified, it always sets the block height. However, the <code>height</code> value is only used depending on the <code>autoheight</code> value.</p>

Example 5 *Block element*

```
<block id="Item Header" type="freeblock"></block>
```

OutputBlock element

The `OutputBlock` element groups objects and calls them as a free block in a frame. Objects contained within a free block are displayed as a rectangle. You can specify the same settings for a free block as for a rectangle. Free blocks can be nested.

Attributes	Description
x	The x-coordinate for the top left corner of the free block, that is, the distance from the left edge of the page. Default value is 0.
y	The y-coordinate for the top left corner of the free block, that is, the distance from the top of the page. Default value is 0.
height	The height of the free block.

Attributes	Description
width	The width of the free block.
x_var	A variable containing the x-coordinate for the top left corner of the free block.
y_var	A variable containing the y-coordinate for the top left corner of the free block.
height_var	A variable containing the height of the free block.
width_var	A variable containing the width of the free block.
id	The name of the free block. If not specified, the free block is called <code>Free_Block_#</code> (where # is a number allocated by PageOUT).
outline	The thickness of the free block borderline in millimeters.
line_color	The color of the free block borderline. The value is specified as <code><red>:<green>:<blue></code> where <code><red></code> , <code><green></code> and <code><blue></code> are in the range from 0 to 255. Default values are 0:0:0 (black).
fill_color	The fill color of the free block. The value is specified as <code><red>:<green>:<blue></code> where <code><red></code> , <code><green></code> and <code><blue></code> are in the range from 0 to 255. Default values are 0:0:0 (black).
round	The rounding of the free block corners (in millimeters of radius).

Example 6 *OutputBlock element*

```
<outputblock id="Custom Item Header" x="2" y="5" width="10"
height="20" fill_color="0:64:0"></outputblock>
```

Field element

A `Field` element specifies properties for a field. A field contains a data value from the input data, a fixed text label, or a variable. Fields are contained within pages or blocks.

Attributes	Description
x	The x-coordinate for the top left corner of the field, that is, the distance from the left edge of the page or block. Default value is 0.

Attributes	Description
y	The y-coordinate for the top left corner of the field, that is, the distance from the top of the page or block. Default value is 0.
x_var	A variable containing the x-coordinate for the top left corner of the field.
y_var	A variable containing the y-coordinate for the top left corner of the field.
height_var	A variable containing the height of the field.
width_var	A variable containing the width of the field.
type	<p>The field type. Possible values are:</p> <p>field Default. A field in the input data. This field must exist in the Message. For example: <code><field type=field>abc</field></code> refers to a field called <code>abc</code> in the input data.</p> <p>label Creates a label attachment in PageOUT. The element value specifies the label data.</p> <p>variable Either specifies a variable in the Message (if a corresponding variable name is set in the Event), or creates a variable attachment in PageOUT. The element value specifies the variable name.</p>
align	<p>The alignment of the field. Possible values are:</p> <ul style="list-style-type: none"> • left — default • right • center <p>Alignment is relative to the x-coordinate for the field.</p>
attrib	<p>The text properties for the field. Possible values are:</p> <ul style="list-style-type: none"> • normal — default • bold • italic • bold_italic • underline
wrap	<p>Sets the wrapping mode (behavior on text overflow) of the field. Possible values are:</p> <p>wrap Text which cannot fit in the field is wrapped to the next line.</p> <p>clip Text which cannot fit in the field is clipped.</p> <p>autosize Default. The field is re-sized to fit the text.</p>

Attributes	Description
width	The width of the field (in millimeters).
height	The height of the field (in millimeters).
rotate	The angle of rotation (counter clockwise) of the field. Modulo 360 is applied to the supplied value to determine the actual field angle.
lsp	Specifies custom line spacing (as a decimal value) for the field.
barcode	Specifies that the field value is to be displayed as a barcode. Possible values are: <ul style="list-style-type: none">code128 (Code 128)code39 (Code 39)ean128 (EAN 128)ean13 (EAN 13)ean8 (EAN 8)extcode39 (Extended Code 39)ind2of5 (Industrial 2 of 5)int2of5 (Interleaved 2 of 5)kix (KIX)pdf417 (PDF 417)postnet (PostNet)upca (UPC-A)upce (UPC-E)updf417 (uPDF 417)
ms	For barcodes, specifies the minimum width of a narrow element.
w2n	For barcodes, specifies the wide-to-narrow ratio.
pt	For barcodes, specifies that the field value is to be printed as human-readable text. Possible values are: <ul style="list-style-type: none">TrueFalse Applies to all barcode types except kix, pdf417, postnet and updf417.

Attributes	Description
check	For barcodes, specifies that the field value is printed with a symbol check character. Possible values are: <ul style="list-style-type: none"> • True • False Only applies to barcode types code39, extcode39, ind2of5 and int2of5.
sec	For barcodes, specifies the security level. Only applies to barcode types pdf417 and updf417.
rows	The number of rows for barcode types pdf417 and updf417.
cols	The number of columns for barcode types pdf417 and updf417.
font	The typeface for the field. Default value is Courier New.
fontsize	The font size for the field. Default is 12.
color	The text color for the field. The value is specified as <red>:<green>:<blue> where <red>, <green> and <blue> are in the range from 0 to 255. Default values are 0:0:0 (black).
format	A format for the field. Possible values are: <ul style="list-style-type: none"> • N<format_string> • D<format_string> Where: <ul style="list-style-type: none"> • N specifies a Numeric format • D specifies a Date format • <format_string> is one of the formats defined in the StreamServe configuration file <code>Formats.txt</code>.
id	An identifier for a text label (<code>type="label"</code>), which is used for automatic substitution from a translation table at runtime.

Example 7 *Field element*

```
<field x="10" y="3" type="label" align="left" width="25.4" height="4.233">First Page:</field>
```

Script element

The `script` element attaches a script to the element directly preceding it. The element must contain a syntactically correct StreamServe script, written on one or more lines. When the script is applied to the PageOUT Process, a line break will occur after each semicolon.

You use the element attributes to specify whether the script is executed before or after the Process. You can insert elements of type `before_process` and `after_process` anywhere within a PLT file.

Requirements

You must represent the character “<” (less than) within a script by using the `<` escape sequence.

Attributes	Description
<code>type</code>	Specifies when the script is executed. Possible values are: <ul style="list-style-type: none">• <code>before</code>• <code>after</code> — default• <code>before_process</code>• <code>after_process</code>

Example 8

Script element

```
<script type="after_process">
$total=$inv_total;
if (num($total) &lt; 1000){
    $action="not urgent";
}
else {
    $action="urgent";
}
</script>
```

This will result in the following script being attached to the Process:

```
$total=$inv_total;
if (num($total) < 1000){ $action="not urgent";
} else { $action="urgent";
}
}
```

Line element

The `Line` element creates a line in the default width (0.2mm).

Attributes	Description
<code>x</code>	The x-coordinate for the starting point of the line.
<code>y</code>	The y-coordinate for the starting point of the line.
<code>x_var</code>	A variable containing the x-coordinate for the starting point of the line.
<code>y_var</code>	A variable containing the y-coordinate for the starting point of the line.
<code>height_var</code>	A variable containing the height of the line.
<code>width_var</code>	A variable containing the width of the line. Default is 0.2mm.
<code>x1</code>	The x-coordinate for the end point of the line.
<code>y1</code>	The y-coordinate for the end point of the line.
<code>outline</code>	The thickness of the line in millimeters.
<code>line_color</code>	The color of the line. The value is specified as <code><red>:<green>:<blue></code> where <code><red></code> , <code><green></code> and <code><blue></code> are in the range from 0 to 255. Default values are 0:0:0 (black).

Note: All x-coordinate units are specified as gridunit/CPI, and y-coordinates as gridunit /LPI, as defined in the `LayoutDef` element.

Example 9 *Line element*

```
<line x="10" y="6" x1="50" y1="24"></line>
```

This will draw a 5 inch angled line, assuming the gridunit value is set to inch, CPI to 10 and LPI to 6.

Rect element

The `Rect` element creates a rectangle with borders in the default width (0.3mm).

Attributes	Description
<code>x</code>	The x-coordinate for the top left corner of the rectangle.
<code>y</code>	The y-coordinate for the top left corner of the rectangle.

Attributes	Description
width	The width of the rectangle.
height	The height of the rectangle.
x_var	A variable containing the x-coordinate for the top left corner of the rectangle.
y_var	A variable containing the y-coordinate for the top left corner of the rectangle.
height_var	A variable containing the height of the rectangle.
width_var	A variable containing the width of the rectangle.
outline	The thickness of the borderline of the rectangle (in millimeters). Default value is 0.3mm.
line_color	The color of the border of the rectangle. The value is specified as <red>:<green>:<blue> where <red>, <green> and <blue> are in the range from 0 to 255. Default values are 0:0:0 (black).
fill_color	The fill color of the rectangle. The value is specified as <red>:<green>:<blue> where <red>, <green> and <blue> are in the range from 0 to 255.
round	The rounding of the corners of the rectangle (in millimeters of radius).

Example 10 **Rect element**

```
<rect x="10" y="30" width="40" height="18"></rect>
```

This will draw a rectangle 4 inches wide and 3 inches high, assuming default CPI and LPI.

Image element

The `Image` element inserts an image, such as a logo or watermark, from an external file. You can insert standard graphic types, such as bitmaps (*.bmp), GIF files (*.gif) and JPEG files (*.jpg).

Note: If you do not specify the width and height of the image, the image will be inserted in its original size.

Attributes	Description
x	The x-coordinate for the top left corner of the image.
y	The y-coordinate for the top left corner of the image.

Attributes	Description
width	The width of the image boundary box.
height	The height of the image boundary box.
x_var	A variable containing the x-coordinate for the top left corner of the image.
y_var	A variable containing the y-coordinate for the top left corner of the image.
height_var	A variable containing the height of the image.
width_var	A variable containing the width of the image.
path	The path to the image file. You can specify an absolute or a path that is relative to the working directory specified in the <code>LayoutDef</code> element.

Example 11 *Image element*

```
<image x="10" y="6" path="StreamServe_Logo.jpg"></image>
```

Date element

The `Date` element inserts the current date as a `Date` object attachment.

Attributes	Description
x	The x-coordinate for the top left corner of the object, that is, the distance from the left edge of the page. Default value is 0.
y	The y-coordinate for the top left corner of the object, that is, the distance from the top of the page. Default value is 0.
x_var	A variable containing the x-coordinate for the top left corner of the object.
y_var	A variable containing the y-coordinate for the top left corner of the object.
height_var	A variable containing the height of the object.
width_var	A variable containing the width of the object.

Attributes	Description
align	<p>The alignment of the object. Possible values are:</p> <ul style="list-style-type: none"> • left — default • right • center <p>Alignment is relative to the x-coordinate for the object.</p>
attrib	<p>Text properties for the object. Possible values are:</p> <ul style="list-style-type: none"> • normal — default • bold • italic • bold_italic • underline
wrap	<p>The wrapping mode for the object. Possible values are:</p> <p>wrap Text which cannot fit in the date object is wrapped to the next line.</p> <p>clip Text which cannot fit in the date object is clipped.</p> <p>autosize Default. The date object is resized to fit the text.</p>
width	The width of the object (in millimeters).
height	The height of the object (in millimeters).
rotate	The angle of rotation (counter clockwise) of the object. Modulo 360 is applied to the value to determine the angle.
lsp	Custom line spacing (as a decimal value) for the object.
font	The typeface for the object. Default value is Courier New.
fontsize	The size of the font in points. Default value is 12.
color	<p>The text color. The value is specified as <red>:<green>:<blue> where <red>, <green> and <blue> are in the range from 0 to 255. Default values are 0:0:0 (black).</p>

Attributes	Description
format	<p>Mandatory. The date format. The value can be any combination of the following values:</p> <ul style="list-style-type: none"> • <code>YYYY</code> (four-digit year) • <code>YY</code> (two-digit year) • <code>mm</code> (month 01-12) • <code>dd</code> (day 01-31) • <code>HH</code> (hour 00-23) • <code>MM</code> (minute 00-59) • <code>SS</code> (second 00-59) <p>All other characters, such as separators, are printed unchanged.</p>

Example 12 *Date element*

```
<date x="10" y="18" format="dd/mm/yy"/></date>
```

This would display the date '5th January 2002' as 05/01/02.

Time element

The `Time` element inserts the current time as a `Time` object attachment.

Attributes	Description
x	The x-coordinate for the top left corner of the object, that is, the distance from the left edge of the page. Default value is 0.
y	The y-coordinate for the top left corner of the object, that is, the distance from the top of the page. Default value is 0.
x_var	A variable containing the x-coordinate for the top left corner of the object.
y_var	A variable containing the y-coordinate for the top left corner of the object.
height_var	A variable containing the height of the object.
width_var	A variable containing the width of the object.

Attributes	Description
align	The alignment of the object. Possible values are: <ul style="list-style-type: none">• left — default• right• center Alignment is relative to the x-coordinate for the object.
attrib	Text properties for the object. Possible values are: <ul style="list-style-type: none">• normal — default• bold• italic• bold_italic• underline
wrap	The wrapping mode for the object. Possible values are: wrap Text which cannot fit in the date object is wrapped to the next line. clip Text which cannot fit in the date object is clipped. autosize Default. The date object is re-sized to fit the text.
width	The width of the object (in millimeters).
height	The height of the object (in millimeters).
rotate	The angle of rotation (counter clockwise) of the object. Modulo 360 is applied to the supplied value to determine the actual angle.
lsp	Custom line spacing (as a decimal value) for the object.
font	The typeface for the object. Default value is Courier New.
fontsize	The size of the font in points. Default value is 12.
color	The text color. The value is specified as <red>:<green>:<blue> where <red>, <green> and <blue> are in the range from 0 to 255. Default values are 0:0:0 (black).

Attributes	Description
format	<p>Mandatory. The time format. The value can be any combination of the following values:</p> <ul style="list-style-type: none"> • <code>YYYY</code> (four-digit year) • <code>YY</code> (two-digit year) • <code>mm</code> (month 01-12) • <code>dd</code> (day 01-31) • <code>HH</code> (hour 00-23) • <code>MM</code> (minute 00-59) • <code>SS</code> (second 00-59) <p>All other characters, such as separators, are printed unchanged.</p>

Example 13 Time element

```
<time x="10" y="18" format="HH:MM:SS"></time>
```

PageNr element

The `PageNr` element inserts the number of the current page as an attachment.

Note: The object is sized automatically to display the string “PageNo.” in the specified font and font size, overriding any other specified attributes, such as height and width.

Attributes	Description
x	The x-coordinate for the top left corner of the object, that is, the distance from the left edge of the page. Default value is 0.
y	The y-coordinate for the top left corner of the object, that is, the distance from the top of the page. Default value is 0.
x_var	A variable containing the x-coordinate for the top left corner of the object.
y_var	A variable containing the y-coordinate for the top left corner of the object.
height_var	A variable containing the height of the object.
width_var	A variable containing the width of the object.

Attributes	Description
align	The alignment of the field. Possible values are: <ul style="list-style-type: none"> left — default right center Alignment is relative to the x-coordinate of the field.
attrib	The text attributes. Possible values are: <ul style="list-style-type: none"> normal — default bold italic bold_italic underline
wrap	Sets the wrapping mode for the object. Possible values are: <p>wrap Text which cannot fit in the field is wrapped to the next line.</p> <p>clip Text which cannot fit in the field is clipped.</p> <p>autosize Default. The field is resized to fit the text.</p>
width	The width of the object (in millimeters).
height	The height of the object (in millimeters).
rotate	The angle of rotation (counter clockwise) of the object. Modulo 360 is applied to the value to determine the angle.
font	The typeface for the text. Default value is Courier New.
fontsize	The size of the font in points. Default is 12.
color	The text color. The value is specified as <red>:<green>:<blue> where <red>, <green> and <blue> are in the range from 0 to 255. Default values are 0:0:0 (black).

Pages element

The `Pages` element inserts the number of pages in the output document (displayed as string `Pages` in PageOUT).

Note: The object is sized automatically to display the string “Pages” in the specified font and font size, overriding any other specified attributes, such as height and width.

Attributes	Description
x	The x-coordinate for the top left corner of the object, that is, the distance from the left edge of the page. Default value is 0.
y	The y-coordinate for the top left corner of the object, that is, the distance from the top of the page. Default value is 0.
x_var	A variable containing the x-coordinate for the top left corner of the object.
y_var	A variable containing the y-coordinate for the top left corner of the object.
height_var	A variable containing the height of the object.
width_var	A variable containing the width of the object.
align	The alignment of the field. Possible values are: <ul style="list-style-type: none"> left — default right center Alignment is relative to the x-coordinate of the field.
attrib	The text attributes. Possible values are: <ul style="list-style-type: none"> normal (default) bold italic bold_italic underline
wrap	Sets the wrapping mode for the object. Possible values are: <p>wrap Text which cannot fit in the field is wrapped to the next line.</p> <p>clip Text which cannot fit in the field is clipped.</p> <p>autosize Default. The field is resized to fit the text.</p>
width	The width of the object (in millimeters).
height	The height of the object (in millimeters).

Attributes	Description
rotate	The angle of rotation (counter clockwise) of the object. Modulo 360 is applied to the value to determine the angle.
font	The typeface for the text. Default value is Courier New.
fontsize	The size of the font in points. Default is 12.
color	The text color. The value is specified as <red>:<green>:<blue> where <red>, <green> and <blue> are in the range from 0 to 255. Default values are 0:0:0 (black).

PageofPages element

The `PageofPages` element inserts the current page number and the total number of pages in the output document (displayed as string 1(1) in PageOUT).

Note: The object is sized automatically to display the string “1(1)” in the specified font and font size, overriding any other specified attributes, such as height and width.

Attributes	Description
x	The x-coordinate for the top left corner of the object, that is, the distance from the left edge of the page. Default value is 0.
y	The y-coordinate for the top left corner of the object, that is, the distance from the top of the page. Default value is 0.
x_var	A variable containing the x-coordinate for the top left corner of the object.
y_var	A variable containing the y-coordinate for the top left corner of the object.
height_var	A variable containing the height of the object.
width_var	A variable containing the width of the object.
align	The alignment of the field. Possible values are: <ul style="list-style-type: none"> left — default right center Alignment is relative to the x-coordinate of the field.

Attributes	Description
attrib	The text attributes. Possible values are: <ul style="list-style-type: none"> normal — default bold italic bold_italic underline
wrap	Sets the wrapping mode for the object. Possible values are: <p>wrap Text which cannot fit in the field is wrapped to the next line.</p> <p>clip Text which cannot fit in the field is clipped.</p> <p>autosize Default. The field is resized to fit the text.</p>
width	The width of the object (in millimeters).
height	The height of the object (in millimeters).
rotate	The angle of rotation (counter clockwise) of the object. Modulo 360 is applied to the supplied value to determine the actual angle.
font	The typeface for the text. Default value is Courier New.
fontsize	The size of the font in points. Default is 12.
color	The text color. The value is specified as <red>:<green>:<blue> where <red>, <green> and <blue> are in the range from 0 to 255. Default values are 0:0:0 (black).

Overlay element

The `overlay` element inserts an overlay on the current page.

Note: If you specify an element value, the value will be used as the name for the overlay imported into the Project. Otherwise, the overlay will be named according to the file name specified by the `path` attribute (without the `*.lxf` extension).

Prerequisites

You can only use overlays that are in StreamServe Layout Exchange Format (LXF).

Attributes	Description
<code>path</code>	Mandatory. The path to the overlay file. You can specify an absolute path for a path that is relative to the working directory specified in the <code>LayoutDef</code> element.
<code>lookup_key</code>	A variable used as a key for the overlay lookup table. The name of the variable must start with a dollar sign (\$).
<code>lookup_table</code>	The name of the overlay lookup table.
<code>variable</code>	An alias variable (starting with \$) containing the overlay file name.
<code>attrib</code>	Enables you to set the Offset Adjust property, which activates the following script functions: <ul style="list-style-type: none">• <code>SetPrnXoffs</code>• <code>SetPrnYoffs</code>• <code>SetXoffs</code>• <code>SetYoffs</code>. Possible values are: <ul style="list-style-type: none">• " " (empty for a standard overlay)• <code>offset</code> For more information on script functions, see the <i>Scripting Reference</i> .

Example 14 *Overlay element*

```
<overlay path="overlays\inv3.lxf" variable="$ovl">Invoice
</overlay>
```

This will import overlay `inv3.lxf` into the current Project as `Invoice.lxf`.

FrameRef element

The `FrameRef` element refers to a frame. You can use the `FrameRef` element to specify all attributes that you can specify for a frame. If you refer to a frame that does not exist, the frame will be created and added to the Process.

Attributes	Description
<code>id</code>	The name of the frame. If not specified, the frame is called <code>New Frame_#</code> , where # is a sequence number allocated by PageOUT.
<code>x</code>	The x-coordinate for the top left corner of the frame, that is, the distance from the left edge of the page. Default value is 0.
<code>y</code>	The y-coordinate for the top left corner of the frame, that is, the distance from the top of the page. Default value is 0.
<code>height</code>	The height of the frame. Default value is 0.
<code>width</code>	The width of the frame. Default is the page width.
<code>x_var</code>	A variable containing the x-coordinate for the top left corner of the frame.
<code>y_var</code>	A variable containing the y-coordinate for the top left corner of the frame.
<code>height_var</code>	A variable containing the height of the frame.
<code>width_var</code>	A variable containing the width of the frame.
<code>overflow</code>	The height of the frame allowing for overflow, overriding the specified height value. If a y-coordinate is not specified, the overflow attribute also calculates the start of the frame. If the y attribute and width are not specified, the overflow attribute defines the frame width as the whole-page width.
<code>outline</code>	The thickness of the frame borderline in millimeters.
<code>line_color</code>	The color of the frame borderline. The value is specified as <code><red>:<green>:<blue></code> where <code><red></code> , <code><green></code> and <code><blue></code> are in the range from 0 to 255. Default values are 0:0:0 (black).
<code>fill_color</code>	The fill color of the frame. The value is specified as <code><red>:<green>:<blue></code> where <code><red></code> , <code><green></code> and <code><blue></code> are in the range from 0 to 255. Default values are 0:0:0 (black).
<code>round</code>	The rounding of the frame corners (in mm of radius).

Document type definition

The document type definition provides a formal description of the Page Layout Template syntax. For more information on the syntax, see [Syntax](#) on page 7.

Page Layout Template document type definition

```

<!ENTITY % integer "CDATA" >
<!ENTITY % pos_integer "CDATA" >
<!ENTITY % pos_decimal "CDATA" >
<!ELEMENT layoutdef (page|frame|frameref|field|script|line|rect|
  image|date|time|pagenr|pages|pageofpages|overlay)* >
<!ATTLIST layoutdef
  eventid      CDATA          #REQUIRED
  processid    CDATA          #REQUIRED
  width        %pos_integer;  #IMPLIED
  height       %pos_integer;  #IMPLIED
  unit         (mm|inch|matrix) "matrix"
  LPI          %pos_integer;  "6"
  CPI          %pos_integer;  "10"
  gridunit     (mm|inch|point) "inch"
  restoregrid  (true|false)   "false"
  wd           CDATA          #IMPLIED
>
<!ELEMENT page (frame|frameref|outputblock|field|script|line|rect|
  image|date|time|pagenr|pages|pageofpages|overlay)* >
<!ATTLIST page
  type         (before|first|body|last|single|
              after)          "body"
  id           CDATA          #IMPLIED
>
<!ELEMENT frame (block)* >
<!ATTLIST frame
  id           CDATA          #REQUIRED
  x            %pos_integer;  "0"
  y            %pos_integer;  "0"
  height       %pos_integer;  #IMPLIED
  width        %pos_integer;  #IMPLIED
  x_var        CDATA          #IMPLIED
  y_var        CDATA          #IMPLIED
  height_var   CDATA          #IMPLIED
  width_var    CDATA          #IMPLIED
  overflow     %pos_integer;  #IMPLIED
  outline      %pos_decimal;  #IMPLIED
  line_color   CDATA          #IMPLIED
  fill_color   CDATA          #IMPLIED
  round        %pos_integer;  #IMPLIED
>
<!ELEMENT frameref (block)* >
<!ATTLIST frameref
  id           CDATA          #REQUIRED
  x            %pos_integer;  "0"
  y            %pos_integer;  "0"
  height       %pos_integer;  #IMPLIED
  width        %pos_integer;  #IMPLIED
  x_var        CDATA          #IMPLIED
  y_var        CDATA          #IMPLIED
  height_var   CDATA          #IMPLIED
  width_var    CDATA          #IMPLIED

```



```

        overflow      %pos_integer;          #IMPLIED
        outline       %pos_decimal;         #IMPLIED
        line_color    CDATA                 #IMPLIED
        fill_color    CDATA                 #IMPLIED
        round         %pos_integer;         #IMPLIED
    >
<!ELEMENT block (outputblock|field|script|line|rect|image|
date|time|pagenr|pages|pageofpages)* >
<!ATTLIST block
    id          CDATA          #REQUIRED
    type        (freeblock)    #IMPLIED
    height      %pos_decimal;  #IMPLIED
    autoheight  (true)         #IMPLIED
>
<!ELEMENT outputblock (field|script|line|rect|image|date|
time|pagenr|pages|pageofpages)* >
<!ATTLIST outputblock
    id          CDATA          #IMPLIED
    x           %pos_integer;  "0"
    y           %pos_integer;  "0"
    height      %pos_integer;  #IMPLIED
    width       %pos_integer;  #IMPLIED
    x_var       CDATA          #IMPLIED
    y_var       CDATA          #IMPLIED
    height_var  CDATA          #IMPLIED
    width_var   CDATA          #IMPLIED
    outline     %pos_decimal;  #IMPLIED
    line_color  CDATA          #IMPLIED
    fill_color  CDATA          #IMPLIED
    round      %pos_integer;  #IMPLIED
>
<!ELEMENT field (#PCDATA) >
<!ATTLIST field
    x           %pos_integer;  #IMPLIED
    y           %pos_integer;  #IMPLIED
    x_var       CDATA          #IMPLIED
    y_var       CDATA          #IMPLIED
    height_var  CDATA          #IMPLIED
    width_var   CDATA          #IMPLIED
    type        (field|label|variable|date|
time)         "field"
    align       (left|right|center)      "left"
    attrib      (normal|bold|italic|
bold_italic|underline)                 "normal"
    wrap        (wrap|clip|autosize)     "autosize"
    width       %pos_decimal;           #IMPLIED
    height      %pos_decimal;           #IMPLIED
    rotate      %integer;                #IMPLIED
    lsp         %pos_decimal;           #IMPLIED
    barcode     (code128|code39|ean128|ean13|
ean8|extcode39|ind2of5|
int2of5|kix|pdf417|postnet|
upca|upce|updf417)                     #IMPLIED
    ms         %pos_decimal;           #IMPLIED
    w2n        %pos_decimal;           #IMPLIED
    pt         (true|false)            "false"
    check      (true|false)            "false"

```

```

        sec          %pos_integer;          #IMPLIED
        rows         %pos_integer;          #IMPLIED
        cols         %pos_integer;          #IMPLIED
        font         CDATA                  "Courier New"
        fontsize     %pos_integer;          "12"
        color        CDATA                  #IMPLIED
        format       CDATA                  #IMPLIED
        id           CDATA                  #IMPLIED
    >
<!ELEMENT script (#PCDATA) >
<!ATTLIST script
    type          (before|after|before_process|
                  after_process)          "after"
>
<!ELEMENT line EMPTY >
<!ATTLIST line
    x             %pos_integer;            #IMPLIED
    y             %pos_integer;            #IMPLIED
    x1            %pos_integer;            #IMPLIED
    y1            %pos_integer;            #IMPLIED
    x_var         CDATA                    #IMPLIED
    y_var         CDATA                    #IMPLIED
    height_var    CDATA                    #IMPLIED
    width_var     CDATA                    #IMPLIED
    outline       %pos_decimal;            #IMPLIED
    line_color    CDATA                    #IMPLIED
>
<!ELEMENT rect EMPTY >
<!ATTLIST rect
    x             %pos_integer;            #IMPLIED
    y             %pos_integer;            #IMPLIED
    width         %pos_integer;            #IMPLIED
    height        %pos_integer;            #IMPLIED
    x_var         CDATA                    #IMPLIED
    y_var         CDATA                    #IMPLIED
    height_var    CDATA                    #IMPLIED
    width_var     CDATA                    #IMPLIED
    outline       %pos_decimal;            #IMPLIED
    line_color    CDATA                    #IMPLIED
    fill_color    CDATA                    #IMPLIED
    round         %pos_integer;            #IMPLIED
>
<!ELEMENT image EMPTY >
<!ATTLIST image
    x             %pos_integer;            #IMPLIED
    y             %pos_integer;            #IMPLIED
    width         %pos_integer;            #IMPLIED
    height        %pos_integer;            #IMPLIED
    x_var         CDATA                    #IMPLIED
    y_var         CDATA                    #IMPLIED
    height_var    CDATA                    #IMPLIED
    width_var     CDATA                    #IMPLIED
    path          CDATA                    #IMPLIED
>
<!ELEMENT date EMPTY >
<!ATTLIST date
    x             %pos_integer;            #IMPLIED
    y             %pos_integer;            #IMPLIED

```

```

align          (left|right|center)          left"
attrib         (normal|bold|italic|
              bold_italic|underline)       "normal"
wrap           (wrap|clip|autosize)        "autosize"
width          %pos_decimal;               #IMPLIED
height        %pos_decimal;               #IMPLIED
x_var         CDATA                        #IMPLIED
y_var         CDATA                        #IMPLIED
height_var    CDATA                        #IMPLIED
width_var     CDATA                        #IMPLIED
rotate        %integer;                   #IMPLIED
lsp           %pos_decimal;               #IMPLIED
font          CDATA                        "Courier New"
fontsize      %pos_integer;               "12"
color         CDATA                        #IMPLIED
format        CDATA                        #REQUIRED
>
<!ELEMENT time EMPTY >
<!ATTLIST time
  x          %pos_integer;               #IMPLIED
  y          %pos_integer;               #IMPLIED
  align      (left|right|center)        "left"
  attrib     (normal|bold|italic|
            bold_italic|underline)     "normal"
  wrap       (wrap|clip|autosize)      "autosize"
  width      %pos_decimal;               #IMPLIED
  height     %pos_decimal;               #IMPLIED
  x_var      CDATA                       #IMPLIED
  y_var      CDATA                       #IMPLIED
  height_var CDATA                       #IMPLIED
  width_var  CDATA                       #IMPLIED
  rotate     %integer;                   #IMPLIED
  lsp        %pos_decimal;               #IMPLIED
  font       CDATA                       "Courier New"
  fontsize   %pos_integer;               "12"
  color      CDATA                       #IMPLIED
  format     CDATA                       #REQUIRED
>
<!ELEMENT pagenr EMPTY >
<!ATTLIST pagenr
  x          %pos_integer;               #IMPLIED
  y          %pos_integer;               #IMPLIED
  align      (left|right|center)        "left"
  attrib     (normal|bold|italic|
            bold_italic|underline)     "normal"
  wrap       (wrap|clip|autosize)      "autosize"
  width      %pos_decimal;               #IMPLIED
  height     %pos_decimal;               #IMPLIED
  x_var      CDATA                       #IMPLIED
  y_var      CDATA                       #IMPLIED
  height_var CDATA                       #IMPLIED
  width_var  CDATA                       #IMPLIED
  rotate     %integer;                   #IMPLIED
  lsp        %pos_decimal;               #IMPLIED
  font       CDATA                       "Courier New"
  fontsize   %pos_integer;               "12"
  color      CDATA                       #IMPLIED
  format     CDATA                       #IMPLIED

```

```

>
<!ELEMENT pages EMPTY >
<!ATTLIST pages
  x          %pos_integer;          #IMPLIED
  y          %pos_integer;          #IMPLIED
  align      (left|right|center)    "left"
  attrib     (normal|bold|italic|
             bold_italic|underline) "normal"
  wrap       (wrap|clip|autosize)   "autosize"
  width      %pos_decimal;          #IMPLIED
  height     %pos_decimal;          #IMPLIED
  x_var      CDATA                  #IMPLIED
  y_var      CDATA                  #IMPLIED
  height_var CDATA                  #IMPLIED
  width_var  CDATA                  #IMPLIED
  rotate     %integer;              #IMPLIED
  lsp        %pos_decimal;          #IMPLIED
  font       CDATA                  "Courier New"
  fontsize   %pos_integer;          "12"
  color      CDATA                  #IMPLIED
  format     CDATA                  #IMPLIED
>
<!ELEMENT pageofpages EMPTY >
<!ATTLIST pageofpages
  x          %pos_integer;          #IMPLIED
  y          %pos_integer;          #IMPLIED
  align      (left|right|center)    "left"
  attrib     (normal|bold|italic|
             bold_italic|underline) "normal"
  wrap       (wrap|clip|autosize)   "autosize"
  width      %pos_decimal;          #IMPLIED
  height     %pos_decimal;          #IMPLIED
  x_var      CDATA                  #IMPLIED
  y_var      CDATA                  #IMPLIED
  height_var CDATA                  #IMPLIED
  width_var  CDATA                  #IMPLIED
  rotate     %integer;              #IMPLIED
  lsp        %pos_decimal;          #IMPLIED
  font       CDATA                  "Courier New"
  fontsize   %pos_integer;          "12"
  color      CDATA                  #IMPLIED
  format     CDATA                  #IMPLIED
>
<!ELEMENT overlay (#PCDATA) >
<!ATTLIST overlay
  path       CDATA                  #REQUIRED
  lookup_key CDATA                  #IMPLIED
  lookup_table CDATA                #IMPLIED
  variable   CDATA                  #IMPLIED
  attrib     (offset)               #IMPLIED
>
<!ELEMENT frameref (frame)* >
<!ATTLIST frameref
  id         CDATA                  #REQUIRED
>

```