

# Natural for Ajax

## PDF Page Layout

Version 9.3.3

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This document applies to Natural for Ajax Version 9.3.3 and all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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# Preface

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This documentation is organized under the following headings:

<b>Page Layout Controls</b>	Describes the controls used for the layout of a print form.
<b>Container Controls</b>	Describes the controls for table definitions.
<b>Distance Controls</b>	Describes the controls for keeping the distance in a table.
<b>Text Output Controls</b>	Describes the controls for the output of text.
<b>Other Controls</b>	Describes the controls for lists of data, and for style, image, barcode and new pages.

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# 1 About this Documentation

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- Document Conventions ..... 2
- Online Information and Support ..... 2
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## Document Conventions

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Convention	Description
<b>Bold</b>	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format <i>folder.subfolder.service</i> , APIs, Java classes, methods, properties.
<i>Italic</i>	Identifies:  Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
Monospace font	Identifies:  Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the   symbol.
[ ]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [ ] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

## Online Information and Support

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### Product Training

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- Browse through our vast knowledge base.
- Ask questions and find answers in our discussion forums.
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- Search the Knowledge Center for technical information and tips.
- Subscribe to early warnings and critical alerts.
- Open and update support incidents.
- Add product feature requests.

## Data Protection

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Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

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# I General Information

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## 2 General Information

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The PDF standard (portable document format, defined by Adobe) is a commonly accepted way for producing high-quality documents for printable output. By the usage of plug-in modules (Adobe Reader), the output can be displayed and printed in any browser.



**Note:** An Application Designer form contains an arrangement of controls. The controls are represented by XML tags with corresponding properties. Each control tag and each tag property is described in this documentation. The descriptions can also be reached by accessing the control wizards inside the Layout Painter.



# II

## Page Layout Controls

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The information provided in this part is organized under the following headings:

**Typical Page Layout**

**CISFO:FOPPAGE2**

**CISFO:HEADER2**

**CISFO:FOOTER2**

**CISFO:PAGENUMBER2**

**CISFO:BODY2**

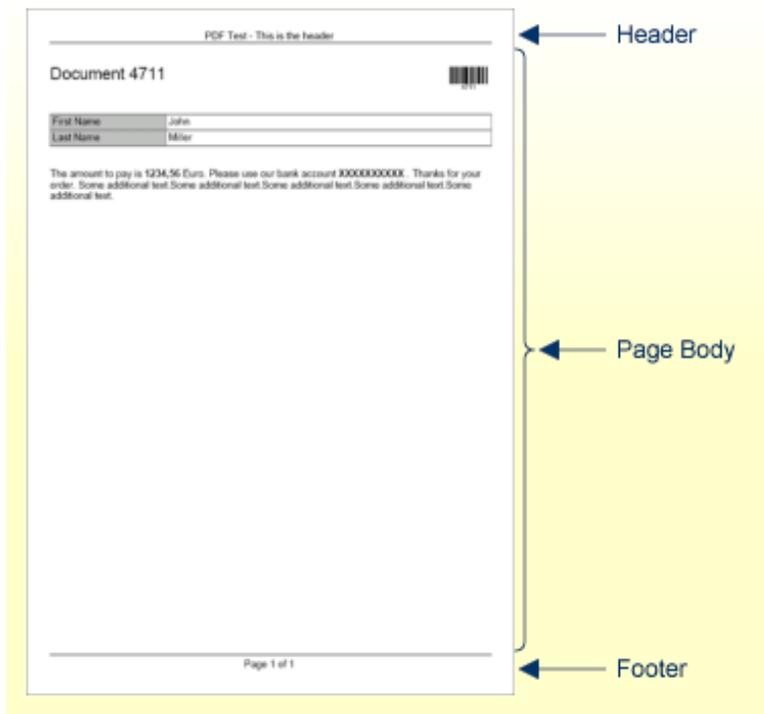
---

# 3 Typical Page Layout

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The layout of a print form typically contains the following elements:

- page
- header
- footer
- body



Header, footer and body open container areas that may hold any other controls inside.



# 4 CISFO:FOPPAGE2

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The CISFO:FOPPAGE2 control is always the top node of a layout definition. The most important definition of the PAGE control is the definition of the paper size. Set the height and width e.g. to 29.7cm/21cm to use the German DIN A4 paper size. Like with the PAGE control in the HTML part, the FOP page is bound to a Java class. The Java class is the counterpart of the print form.

## Properties

Basis			
objectclass	Name of the class which is the adapter class for the document. The class represents the logical counter part of the document. While the document specifies the layout, the class (at runtime the object...) holds the content data that the document binds to.	Sometimes obligatory	
project	The name of the CIS project for the document. It is needed for the multi language management in order to find the language dependent translation files.	Sometimes obligatory	
translationreference	The name of the document without extensions, which is needed for translation purposes.	Sometimes obligatory	
pageheight	Specifies the height of a page. Some valid values are 'auto', 'indefinite', '29cm' or '12in'. The width of the page is determined from the size of the laid-out content. 'pagewidth' and 'pageheight' properties may not both be set to 'indefinite'. Should that occur, the dimension that is parallel to the block-progression-direction, as determined by the 'referenceorientation' and 'writing-mode' on the fo:simple-page-master, of the page-reference-area will remain 'indefinite' and the other will revert to 'auto'.	Optional	21cm 29.7cm 8.5in 11in indefinite
pagewidth	Specifies the width of a page. Some valid values are 'auto', 'indefinite', '29cm' or '12in'. The width of the page is determined from the size of the laid-out content. 'pagewidth' and 'pageheight' properties may not both be set to 'indefinite'. Should that occur, the dimension that is parallel to the block-progression-direction, as determined by the 'referenceorientation' and 'writing-mode' on the fo:simple-page-master, of the page-reference-area will remain 'indefinite' and the other will revert to 'auto'.	Optional	21cm 29.7cm 8.5in 11in indefinite
headerheight	Height of the header area.	Optional	1pt 12pt 0.5in 1in 1mm

			5mm 1cm 1.5cm
footerheight	Height of the footer area.	Optional	1pt 12pt 0.5in 1in 1mm 5mm 1cm 1.5cm
columncount	When the COLUMNCOUNT is greater than one, then the region-body will be subdivided into multiple columns. If not set then the count is 1.	Optional	1 2 3
columngap	Specifies the width of the separation between adjacent columns in a multi-column region. If a negative value has been specified a value of 0pt will be used.	Optional	1pt 5pt 1mm 5mm
Margin			
margintop	Top margin between page border and content.	Optional	1pt 5pt 1mm 5mm
marginbottom	Bottom margin between page border and content.	Optional	1pt 5pt 1mm 5mm

marginleft	Left margin between page border and content.	Optional	1pt 5pt 1mm 5mm
marginright	Right margin between page border and content.	Optional	1pt 5pt 1mm 5mm

# 5

## CISFO:HEADER2

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Printouts typically have a header and/or footer to indicate the page content. You may use the header to output the document's title, the page number, the date of creation or other information. It opens a container area that holds any other controls inside.

## Properties

Color			
backgroundcolor	This attribute sets the background color of an element, either a <code>&lt;color&gt;</code> value or the keyword "transparent", to make the underlying colors shine through.	Optional	#000000 #808080 #FFFFFF #FF0000
color	Color in which the element is output.	Optional	#000000 #808080 #FFFFFF #FF0000
Border			
bordercolor	Color for all borders (bottom, top, left, right). Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderstyle	This attribute specifies the line style of all box's border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderwidth	The border width attribute specifies the width of all borders. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
bordertopcolor	Color for the border on the top. Values are any valid color specification.	Optional	#000000 #808080

			#FFFFFF #FF0000
bordertopstyle	This attribute specifies the line style of a box's top border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
bordertopwidth	The border width attribute specifies the width of the top border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderleftcolor	Color for the border on the left side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderleftstyle	This attribute specifies the line style of a box's left border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderleftwidth	The border width attribute specifies the width of the left border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderbottomcolor	Color for the border on the bottom. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderbottomstyle	This attribute specifies the line style of a box's bottom border. Valid values are 'solid', 'double' or 'dashed'.	Optional	solid none
borderbottomwidth	The border width attribute specifies the width of the bottom border. Valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt

			1mm 5mm
borderrightcolor	Color for the border on the right side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderrightstyle	This attribute specifies the line style of a box's right border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderrightwidth	The border width attribute specifies the width of the right border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
Font			
fontfamily	This attribute specifies a prioritized list of font family names and/or generic family names. To deal with the problem that a single font may not contain glyphs to display all the characters in a document, or that not all fonts are available on all systems, this property allows authors to specify a list of fonts, all of the same style and size, that are tried in sequence to see if they contain a glyph for a certain character. This list is called a "font set".	Optional	Helvetica Times Courier Symbol ZapfDingbats
fontsize	This attribute describes the size of the font when set as "solid". The font size corresponds to the em square, a concept used in typography. Note that certain glyphs may bleed outside their em squares. Some valid values are "xxsmall", "medium", "smaller" or a concrete size, e.g. "110%".	Optional	8pt 10pt 16pt
fontstyle	This attribute requests normal (sometimes referred to as "roman" or "upright"), italic, and oblique faces within a font family. Valid values are "normal", "italic" and "oblique".	Optional	normal italic oblique
fontvariant	In a small-caps font, the glyphs for lowercase letters look similar to the uppercase ones, but in a smaller size and with slightly different proportions. The "font-variant" property requests such a font for bicameral (having two cases, as with Roman script). This property has no visible effect for scripts	Optional	normal small-caps

	that are unicameral (having only one case, as with most of the world's writing systems). Valid values are "normal" and "small-caps".		
fontweight	This attribute specifies the weight of the font. Some valid values are 'normal', 'bold', 'bolder', 'lighter', '100' or '900', where 'normal' is the same as '400', 'bold' is the same as '700'.	Optional	normal bold 100 200 300 400 500 600 700 800 900
Margin			
margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm

marginbottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
marginright	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
Padding			
padding	Specifies the width of the padding of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingtop	Specifies the width of the padding on the top of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingleft	Specifies the width of the padding on the left of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingbottom	Specifies the width of the padding on the bottom of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingright	Specifies the width of the padding on the right of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt

			1mm 5mm
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# 6 CISFO:FOOTER2

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■ Properties .....	26
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Printouts typically have a header and/or footer to indicate the page content. You may use the footer to output the document's title, the page number and the date of creation. It opens a container area that holds any other controls inside.

## Properties

Color			
backgroundcolor	This attribute sets the background color of an element, either a <code>&lt;color&gt;</code> value or the keyword "transparent", to make the underlying colors shine through.	Optional	#000000 #808080 #FFFFFF #FF0000
color	Color in which the element is output.	Optional	#000000 #808080 #FFFFFF #FF0000
Border			
bordercolor	Color for all borders (bottom, top, left, right). Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderstyle	This attribute specifies the line style of all box's border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderwidth	The border width attribute specifies the width of all borders. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
bordertopcolor	Color for the border on the top. Values are any valid color specification.	Optional	#000000 #808080

			#FFFFFF #FF0000
bordertopstyle	This attribute specifies the line style of a box's top border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
bordertopwidth	The border width attribute specifies the width of the top border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderleftcolor	Color for the border on the left side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderleftstyle	This attribute specifies the line style of a box's left border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderleftwidth	The border width attribute specifies the width of the left border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderbottomcolor	Color for the border on the bottom. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderbottomstyle	This attribute specifies the line style of a box's bottom border. Valid values are 'solid', 'double' or 'dashed'.	Optional	solid none
borderbottomwidth	The border width attribute specifies the width of the bottom border. Valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt

			1mm 5mm
borderrightcolor	Color for the border on the right side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderrightstyle	This attribute specifies the line style of a box's right border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderrightwidth	The border width attribute specifies the width of the right border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
Font			
fontfamily	This attribute specifies a prioritized list of font family names and/or generic family names. To deal with the problem that a single font may not contain glyphs to display all the characters in a document, or that not all fonts are available on all systems, this property allows authors to specify a list of fonts, all of the same style and size, that are tried in sequence to see if they contain a glyph for a certain character. This list is called a "font set".	Optional	Helvetica Times Courier Symbol ZapfDingbats
fontsize	This attribute describes the size of the font when set as "solid". The font size corresponds to the em square, a concept used in typography. Note that certain glyphs may bleed outside their em squares. Some valid values are "xxsmall", "medium", "smaller" or a concrete size, e.g. "110%".	Optional	8pt 10pt 16pt
fontstyle	This attribute requests normal (sometimes referred to as "roman" or "upright"), italic, and oblique faces within a font family. Valid values are "normal", "italic" and "oblique".	Optional	normal italic oblique
fontvariant	In a small-caps font, the glyphs for lowercase letters look similar to the uppercase ones, but in a smaller size and with slightly different proportions. The "font-variant" property requests such a font for bicameral (having two cases, as with Roman script). This property has no visible effect for scripts	Optional	normal small-caps

	that are unicameral (having only one case, as with most of the world's writing systems). Valid values are "normal" and "small-caps".		
fontweight	This attribute specifies the weight of the font. Some valid values are 'normal', 'bold', 'bolder', 'lighter', '100' or '900', where 'normal' is the same as '400', 'bold' is the same as '700'.	Optional	normal bold 100 200 300 400 500 600 700 800 900
Margin			
margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm

marginbottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
marginright	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
Padding			
padding	Specifies the width of the padding of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingtop	Specifies the width of the padding on the top of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingleft	Specifies the width of the padding on the left of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingbottom	Specifies the width of the padding on the bottom of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingright	Specifies the width of the padding on the right of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt

			1mm 5mm
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# 7 CISFO:PAGENUMBER2

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The CISFO:PAGENUMBER2 control represents the running number of the page within the PDF document. You typically place the page number within the header and/or footer of the document. By default, the control also shows the total number of pages. Use the property `withtotalpagenumber` to suppress the total page number.

## Properties

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Basic			
<code>withtotalpagenumber</code>	By default this control outputs - besides the running page number - the total page number. Use this attribute to control the output of the total page number. Default is TRUE.	Optional	true false
<code>textid</code>	Textid for the multi language management.	Optional	
<code>separator</code>	By default this control outputs - besides the running page number - the total page number. Use this attribute to separate the two figures. Example: a value of " / " outputs "2 / 16". Use attribute TEXTID in order to have language dependent separator ("2 of 16").	Optional	

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## CISFO:BODY2

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The page body is the main area where you place the body part of your layout. It opens a container area that holds any other controls inside.

## Properties

Color			
color	Color in which the element is output.	Optional	#000000 #808080 #FFFFFF #FF0000
backgroundcolor	This attribute sets the background color of an element, either a <code>&lt;color&gt;</code> value or the keyword "transparent", to make the underlying colors shine through.	Optional	#000000 #808080 #FFFFFF #FF0000
Border			
bordercolor	Color for all borders (bottom, top, left, right). Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderstyle	This attribute specifies the line style of all box's border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderwidth	The border width attribute specifies the width of all borders. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
bordertopcolor	Color for the border on the top. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF

			#FF0000
bordertopstyle	This attribute specifies the line style of a box's top border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
bordertopwidth	The border width attribute specifies the width of the top border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderleftcolor	Color for the border on the left side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderleftstyle	This attribute specifies the line style of a box's left border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderleftwidth	The border width attribute specifies the width of the left border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderbottomcolor	Color for the border on the bottom. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderbottomstyle	This attribute specifies the line style of a box's bottom border. Valid values are 'solid', 'double' or 'dashed'.	Optional	solid none
borderbottomwidth	The border width attribute specifies the width of the bottom border. Valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm

			5mm
borderrightcolor	Color for the border on the right side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderrightstyle	This attribute specifies the line style of a box's right border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderrightwidth	The border width attribute specifies the width of the right border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
Font			
fontfamily	This attribute specifies a prioritized list of font family names and/or generic family names. To deal with the problem that a single font may not contain glyphs to display all the characters in a document, or that not all fonts are available on all systems, this property allows authors to specify a list of fonts, all of the same style and size, that are tried in sequence to see if they contain a glyph for a certain character. This list is called a "font set".	Optional	Helvetica Times Courier Symbol ZapfDingbats
fontsize	This attribute describes the size of the font when set as "solid". The font size corresponds to the em square, a concept used in typography. Note that certain glyphs may bleed outside their em squares. Some valid values are "xxsmall", "medium", "smaller" or a concrete size, e.g. "110%".	Optional	8pt 10pt 16pt
fontstyle	This attribute requests normal (sometimes referred to as "roman" or "upright"), italic, and oblique faces within a font family. Valid values are "normal", "italic" and "oblique".	Optional	normal italic oblique
fontvariant	In a small-caps font, the glyphs for lowercase letters look similar to the uppercase ones, but in a smaller size and with slightly different proportions. The "font-variant" property requests such a font for bicameral (having two cases, as with Roman script). This property has no visible effect for scripts that are unicameral (having only one case, as with most of	Optional	normal small-caps

	the world's writing systems). Valid values are "normal" and "small-caps".		
fontweight	This attribute specifies the weight of the font. Some valid values are 'normal', 'bold', 'bolder', 'lighter', '100' or '900', where 'normal' is the same as '400', 'bold' is the same as '700'.	Optional	normal bold 100 200 300 400 500 600 700 800 900
Margin			
margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-bottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt

			1mm 5mm
marginright	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
Padding			
padding	Specifies the width of the padding of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingtop	Specifies the width of the padding on the top of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingleft	Specifies the width of the padding on the left of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingbottom	Specifies the width of the padding on the bottom of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingright	Specifies the width of the padding on the right of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm

# III Container Controls

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The information provided in this part is organized under the following headings:

**General Information**

**CISFO:ROWTABLE2**

**CISFO:COLTABLE2**



# 9 General Information

---

There are certain container controls:

- CISFO:ROWTABLE2
- CISFO:COLTABLE2

If you want to position certain information, then you have to open a container. A container is a table definition. Inside the container you place rows and inside the rows you place controls.

```
<cisfo:body2>
  <cisfo:rowtable2 columnwidths="17cm; 2cm">
    <cisfo:row2>
      <cisfo:replace2 valueprop="docNumberText" style="font-weight: bold;">
      </cisfo:replace2>
      <cisfo:barcode2 valueprop="docNumber" barcodetype="CODE39"
height="10">
      </cisfo:barcode2>
    </cisfo:row2>
    <cisfo:row2>
      ...
      ...
      ...
    </cisfo:row2>
    ...
    ...
    ...
  </cisfo:rowtable2>
  ...
  ...
  ...
```

The size of the columns is part of the container definition. While CISFO:ROWTABLE2 opens a container inside a row, CISFO:COLTABLE2 opens a container inside a column.



**Note:** The column size within the XML form definition is a fixed definition in centimeters, inches or other units of measurement. Unlike the HTML size definitions, it cannot be a percentage value.

A row inside a container can either be a “flexible row” that itself holds other controls:

- CISFO:ROW2

or a row control with a predefined rendering. A row control spans all columns of the container definition. Available row controls are:

- CISFO:HLINE2 - a horizontal line
- CISFO:ROWTEXTBLOCK2 - a text output

Containers can be nested, i.e. inside a column of a container, you can position a CISFO:COLTABLE2 container. Or inside a row, you position a CISFO:ROWTABLE2 container.

# 10 CISFO:ROWTABLE2

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- Properties ..... 46

The CISFO:ROWTABLE2 control is a container. A container is a table definition. Inside the container, you place rows, and inside the rows, you place controls. It is placed into a table container (e.g. CISFO:BODY2) and spans one row.

## Properties

Basis			
columnwidths	Semicolon separated list of widths of contained columns.  Example: "1cm; 3cm; 4cm".  Column definitions are defined as part of the table definition - all contained column controls you add later on as content of the table are sized according to this definition.	Obligatory	10cm  8cm;8cm  4cm;5cm;4cm;5cm
stylename	Name of a CISFO style. The style must exist within the form definition.	Optional	
backgroundcolor	This attribute sets the background color of an element, either a <code>colorandgt;</code> value or the keyword "transparent", to make the underlying colors shine through.	Optional	#000000  #808080  #FFFFFF  #FF0000
color	Color in which the element is output.	Optional	#000000  #808080  #FFFFFF  #FF0000
textalign	The alignment of the text. Valid values are 'center', 'left' or 'right'.	Optional	left  center  right
textdecoration	Different values for printing the text, so as underline, overline or line-through.	Optional	overline  line-through  underline
Border			

bordercolor	Color for all borders (bottom, top, left, right). Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderstyle	This attribute specifies the line style of all box's border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderwidth	The border width attribute specifies the width of all borders. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
bordertopcolor	Color for the border on the top. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
bordertopstyle	This attribute specifies the line style of a box's top border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
bordertopwidth	The border width attribute specifies the width of the top border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderleftcolor	Color for the border on the left side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderleftstyle	This attribute specifies the line style of a box's left border. Some valid values are "solid", "double" or "dashed".	Optional	solid none

borderleftwidth	The border width attribute specifies the width of the left border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderbottomcolor	Color for the border on the bottom. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderbottomstyle	This attribute specifies the line style of a box's bottom border. Valid values are 'solid', 'double' or 'dashed'.	Optional	solid none
borderbottomwidth	The border width attribute specifies the width of the bottom border. Valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderrightcolor	Color for the border on the right side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderrightstyle	This attribute specifies the line style of a box's right border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderrightwidth	The border width attribute specifies the width of the right border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
Font			
fontfamily	This attribute specifies a prioritized list of font family names and/or generic family names. To deal with the problem that a single font may not contain glyphs to	Optional	Helvetica Times

	display all the characters in a document, or that not all fonts are available on all systems, this property allows authors to specify a list of fonts, all of the same style and size, that are tried in sequence to see if they contain a glyph for a certain character. This list is called a "font set".		Courier Symbol ZapfDingbats
fontsize	This attribute describes the size of the font when set as "solid". The font size corresponds to the em square, a concept used in typography. Note that certain glyphs may bleed outside their em squares. Some valid values are "xxsmall", "medium", "smaller" or a concrete size, e.g. "110%".	Optional	8pt 10pt 16pt
fontstyle	This attribute requests normal (sometimes referred to as "roman" or "upright"), italic, and oblique faces within a font family. Valid values are "normal", "italic" and "oblique".	Optional	normal italic oblique
fontvariant	In a small-caps font, the glyphs for lowercase letters look similar to the uppercase ones, but in a smaller size and with slightly different proportions. The "font-variant" property requests such a font for bicameral (having two cases, as with Roman script). This property has no visible effect for scripts that are unicameral (having only one case, as with most of the world's writing systems). Valid values are "normal" and "small-caps".	Optional	normal small-caps
fontweight	This attribute specifies the weight of the font. Some valid values are 'normal', 'bold', 'bolder', 'lighter', '100' or '900', where 'normal' is the same as '400', 'bold' is the same as '700'.	Optional	normal bold 100 200 300 400 500 600 700 800 900
Margin			

margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-bottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-right	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
Padding			
padding	Specifies the width of the padding of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
padding-top	Specifies the width of the padding on the top of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt

			1mm 5mm
paddingleft	Specifies the width of the padding on the left of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingbottom	Specifies the width of the padding on the bottom of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingright	Specifies the width of the padding on the right of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm



# 11 CISFO:COLTABLE2

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■ Properties .....	54
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The CISFO:COLTABLE2 control is a container. It is placed into a row (e.g. CISFO:ROW2) and spans one column.

## Properties

Basis			
columnwidths	Semicolon separated list of widths of contained columns.  Example: "1cm; 3cm; 4cm".  Column definitions are defined as part of the table definition - all contained column controls you add later on as content of the table are sized according to this definition.	Obligatory	10cm  8cm;8cm  4cm;5cm;4cm;5cm
stylename	Name of a CISFO style. The style must exist within the form definition.	Optional	
backgroundcolor	This attribute sets the background color of an element, either a <code>&lt;color&gt;</code> value or the keyword "transparent", to make the underlying colors shine through.	Optional	#000000  #808080  #FFFFFF  #FF0000
color	Color in which the element is output.	Optional	#000000  #808080  #FFFFFF  #FF0000
textalign	The alignment of the text. Valid values are 'center', 'left' or 'right'.	Optional	left  center  right
textdecoration	Different values for printing the text, so as underline, overline or line-through.	Optional	overline  line-through  underline
Border			

bordercolor	Color for all borders (bottom, top, left, right). Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderstyle	This attribute specifies the line style of all box's border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderwidth	The border width attribute specifies the width of all borders. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
bordertopcolor	Color for the border on the top. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
bordertopstyle	This attribute specifies the line style of a box's top border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
bordertopwidth	The border width attribute specifies the width of the top border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderleftcolor	Color for the border on the left side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderleftstyle	This attribute specifies the line style of a box's left border. Some valid values are "solid", "double" or "dashed".	Optional	solid none

borderleftwidth	The border width attribute specifies the width of the left border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderbottomcolor	Color for the border on the bottom. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderbottomstyle	This attribute specifies the line style of a box's bottom border. Valid values are 'solid', 'double' or 'dashed'.	Optional	solid none
borderbottomwidth	The border width attribute specifies the width of the bottom border. Valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderrightcolor	Color for the border on the right side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderrightstyle	This attribute specifies the line style of a box's right border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderrightwidth	The border width attribute specifies the width of the right border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
Font			
fontfamily	This attribute specifies a prioritized list of font family names and/or generic family names. To deal with the problem that a single font may not contain glyphs to	Optional	Helvetica Times

	display all the characters in a document, or that not all fonts are available on all systems, this property allows authors to specify a list of fonts, all of the same style and size, that are tried in sequence to see if they contain a glyph for a certain character. This list is called a "font set".		Courier Symbol ZapfDingbats
fontsize	This attribute describes the size of the font when set as "solid". The font size corresponds to the em square, a concept used in typography. Note that certain glyphs may bleed outside their em squares. Some valid values are "xxsmall", "medium", "smaller" or a concrete size, e.g. "110%".	Optional	8pt 10pt 16pt
fontstyle	This attribute requests normal (sometimes referred to as "roman" or "upright"), italic, and oblique faces within a font family. Valid values are "normal", "italic" and "oblique".	Optional	normal italic oblique
fontvariant	In a small-caps font, the glyphs for lowercase letters look similar to the uppercase ones, but in a smaller size and with slightly different proportions. The "font-variant" property requests such a font for bicameral (having two cases, as with Roman script). This property has no visible effect for scripts that are unicameral (having only one case, as with most of the world's writing systems). Valid values are "normal" and "small-caps".	Optional	normal small-caps
fontweight	This attribute specifies the weight of the font. Some valid values are 'normal', 'bold', 'bolder', 'lighter', '100' or '900', where 'normal' is the same as '400', 'bold' is the same as '700'.	Optional	normal bold 100 200 300 400 500 600 700 800 900
Margin			

margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-bottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-right	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
Padding			
padding	Specifies the width of the padding of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
padding-top	Specifies the width of the padding on the top of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt

			1mm 5mm
paddingleft	Specifies the width of the padding on the left of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingbottom	Specifies the width of the padding on the bottom of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingright	Specifies the width of the padding on the right of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm



# IV Distance Controls

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There are two distance controls:

- CISFO:VDIST2 - keeps a certain vertical distance, i.e. it represents an empty row with a certain height.
- CISFO:HDIST2 - this is an empty column inside a container's row. There is no further width definition with HDIST2 because the width of the columns is part of the container definition.

In addition, the CISFO:HLINE2 control is available which creates a horizontal line.

The information provided in this part is organized under the following headings:

[CISFO:VDIST2](#)

[CISFO:HDIST2](#)

[CISFO:HLINE2](#)



# 12 CISFO:VDIST2

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■ Properties .....	64
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The CISFO:VDIST2 control keeps a certain vertical distance, i.e. it represents an empty row with a certain height.

## Properties

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Basic			
height	The height of the control. Use unit 'mm', 'cm' or 'pt'.	Optional	1pt 12pt 0.5in 1in 1mm 5mm 1cm 1.5cm

# 13 CISFO:HDIST2

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■ Properties .....	66
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The CISFO:HDIST2 control is an empty column inside a container's row. There is no further width definition with HDIST2 because the width of the columns is part of the container definition.

## Properties

Basis			
stylename	Name of a CISFO style. The style must exist within the form definition.	Optional	
backgroundcolor	This attribute sets the background color of an element, either a <code>&lt;color&gt;</code> value or the keyword "transparent", to make the underlying colors shine through.	Optional	#000000 #808080 #FFFFFF #FF0000
columnspanned	A positive integer, specifying the number of columns spanned.	Optional	2 3
rowspanned	A positive integer, specifying the number of rows taht this cell spans.	Optional	2 3
Border			
bordercolor	Color for all borders (bottom, top, left, right). Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderstyle	This attribute specifies the line style of all box's border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderwidth	The border width attribute specifies the width of all borders. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
bordertopcolor	Color for the border on the top. Values are any valid color specification.	Optional	#000000

			#808080 #FFFFFF #FF0000
bordertopstyle	This attribute specifies the line style of a box's top border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
bordertopwidth	The border width attribute specifies the width of the top border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderleftcolor	Color for the border on the left side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderleftstyle	This attribute specifies the line style of a box's left border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderleftwidth	The border width attribute specifies the width of the left border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderbottomcolor	Color for the border on the bottom. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderbottomstyle	This attribute specifies the line style of a box's bottom border. Valid values are 'solid', 'double' or 'dashed'.	Optional	solid none

borderbottomwidth	The border width attribute specifies the width of the bottom border. Valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderrightcolor	Color for the border on the right side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderrightstyle	This attribute specifies the line style of a box's right border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderrightwidth	The border width attribute specifies the width of the right border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
Margin			
margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm

marginbottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
marginright	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm



# 14 CISFO:HLINE2

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- Properties ..... 72

CISFO:HLINE2 is a row control (spans all columns of the container definition) representing a horizontal line.

## Properties

---

Basic			
height	Height of the line.	Optional	1pt 12pt 0.5in 1in 1mm 5mm 1cm 1.5cm
color	Color of the line.	Optional	#000000 #808080 #FFFFFF #FF0000

# V Text Output Controls

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The information provided in this part is organized under the following headings:

**General Information**

**CISFO:ROWTEXTBLOCK2**

**CISFO:CELLTEXT2**

**CISFO:TEXT2**

**CISFO:TEXTBLOCK2**

**CISFO:TEXTREPLACE2**

**CISFO:REPLACE2**



# 15

## General Information

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The output of plain text is done using the following controls:

- CISFO:ROWTEXTBLOCK2
- CISFO:CELLTEXT2

CISFO:ROWTEXTBLOCK2 is a row control (it spans all columns of the container definition). CISFO:CELLTEXT2 covers one table column (cell). With both controls, you either can define a text directly inside the control definition. Or you can set up a text containing the following elements to be arranged as one block of text:

- CISFO:TEXT2
- CISFO:TEXTREPLACE2
- CISFO:TEXTBLOCK2

With the above controls, you either define the text in a fixed way (using the `text` property) or language-dependent (using the `textid` property). The language is passed at runtime as property of the data object.

For variable text output, you can use the following controls:

- CISFO:REPLACE2 as column control
- CISFO:TEXTREPLACE2 inside a text definition

Both controls bind to a data object property that contains the text at runtime.



# 16 CISFO:ROWTEXTBLOCK2

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- Properties ..... 78

The CISFO:ROWTEXTBLOCK2 control outputs a block of plain text. It is placed into a table container (e.g. CISFO:BODY2 or CISFO:ROWTABLE2) and spans one row. You can either define a fixed text directly inside the control definition (properties `text` and `textid`). Or you can set up a text containing certain elements to be arranged as one block of text:

```
<cisfo:rowtextblock2>
  <cisfo:text2 text="The amount to pay is ">
  </cisfo:text2>
  <cisfo:textreplace2 valueprop="amount" fontweight="bold">
  </cisfo:textreplace2>
  <cisfo:text2 text=" Euro. Please use our bank account ">
  </cisfo:text2>
  <cisfo:textreplace2 valueprop="account" fontweight="bold">
  </cisfo:textreplace2>
  <cisfo:text2 text=". Thanks for your order. Some additional text.Some additional ←
text.Some additional text.Some additional text.Some additional text.">
  </cisfo:text2>
</cisfo:rowtextblock2>
```

In this case, the text consists of four individual texts that are arranged as one block of text.

## Properties

Basis			
text	The text that is output.	Optional	
textid	Textid for the multi language management.	Optional	
stylename	Name of a CISFO style. The style must exist within the form definition.	Optional	
backgroundcolor	This attribute sets the background color of an element, either a <code>&lt;color&gt;</code> value or the keyword "transparent", to make the underlying colors shine through.	Optional	#000000 #808080 #FFFFFF #FF0000
color	Color in which the element is output.	Optional	#000000 #808080 #FFFFFF #FF0000
textalign	The alignment of the text. Valid values are 'center', 'left' or 'right'.	Optional	left

			center right
textdecoration	Different values for printing the text, so as underline, overline or line-through.	Optional	overline line-through underline
<b>Border</b>			
bordercolor	Color for all borders (bottom, top, left, right). Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderstyle	This attribute specifies the line style of all box's border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderwidth	The border width attribute specifies the width of all borders. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
bordertopcolor	Color for the border on the top. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
bordertopstyle	This attribute specifies the line style of a box's top border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
bordertopwidth	The border width attribute specifies the width of the top border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm

borderleftcolor	Color for the border on the left side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderleftstyle	This attribute specifies the line style of a box's left border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderleftwidth	The border width attribute specifies the width of the left border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderbottomcolor	Color for the border on the bottom. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderbottomstyle	This attribute specifies the line style of a box's bottom border. Valid values are 'solid', 'double' or 'dashed'.	Optional	solid none
borderbottomwidth	The border width attribute specifies the width of the bottom border. Valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderrightcolor	Color for the border on the right side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderrightstyle	This attribute specifies the line style of a box's right border. Some valid values are "solid", "double" or "dashed".	Optional	solid none

borderrightwidth	The border width attribute specifies the width of the right border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
Font			
fontfamily	This attribute specifies a prioritized list of font family names and/or generic family names. To deal with the problem that a single font may not contain glyphs to display all the characters in a document, or that not all fonts are available on all systems, this property allows authors to specify a list of fonts, all of the same style and size, that are tried in sequence to see if they contain a glyph for a certain character. This list is called a "font set".	Optional	Helvetica Times Courier Symbol ZapfDingbats
fontsize	This attribute describes the size of the font when set as "solid". The font size corresponds to the em square, a concept used in typography. Note that certain glyphs may bleed outside their em squares. Some valid values are "xxsmall", "medium", "smaller" or a concrete size, e.g. "110%".	Optional	8pt 10pt 16pt
fontstyle	This attribute requests normal (sometimes referred to as "roman" or "upright"), italic, and oblique faces within a font family. Valid values are "normal", "italic" and "oblique".	Optional	normal italic oblique
fontvariant	In a small-caps font, the glyphs for lowercase letters look similar to the uppercase ones, but in a smaller size and with slightly different proportions. The "font-variant" property requests such a font for bicameral (having two cases, as with Roman script). This property has no visible effect for scripts that are unicameral (having only one case, as with most of the world's writing systems). Valid values are "normal" and "small-caps".	Optional	normal small-caps
fontweight	This attribute specifies the weight of the font. Some valid values are 'normal', 'bold', 'bolder', 'lighter', '100' or '900', where 'normal' is the same as '400', 'bold' is the same as '700'.	Optional	normal bold 100 200 300 400 500

			600 700 800 900
Margin			
margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-bottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-right	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
Padding			

padding	Specifies the width of the padding of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingtop	Specifies the width of the padding on the top of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingleft	Specifies the width of the padding on the left of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingbottom	Specifies the width of the padding on the bottom of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingright	Specifies the width of the padding on the right of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm



# 17 CISFO:CELLTEXT2

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The CISFO:CELLTEXT2 control outputs plain text. It is placed into a row container (e.g. CISFO:ROW2) and spans one table cell. You can either define a fixed text directly inside the control definition (properties `text` and `textid`). Or you can set up a text containing certain elements to be arranged as one block of text:

```
<cisfo:celltext2 stylename="LABEL">
  <cisfo:text2 text="Number">
</cisfo:text2>
  <cisfo:textreplace2 valueprop="docNumber">
</cisfo:textreplace2>
</cisfo:celltext2>
```

## Properties

Basis			
text	The text that is output.	Optional	
textid	Textid for the multi language management.	Optional	
stylename	Name of a CISFO style. The style must exist within the form definition.	Optional	
backgroundcolor	This attribute sets the background color of an element, either a <code>&amp;lt;colorandgt;</code> value or the keyword "transparent", to make the underlying colors shine through.	Optional	#000000 #808080 #FFFFFF #FF0000
columnsspanned	A positive integer, specifying the number of columns spanned.	Optional	2 3
color	Color in which the element is output.	Optional	#000000 #808080 #FFFFFF #FF0000
rowsspanned	A positive integer, specifying the number of rows taht this cell spans.	Optional	2 3
textalign	The alignment of the text. Valid values are 'center', 'left' or 'right'.	Optional	left center

			right
textdecoration	Different values for printing the text, so as underline, overline or line-through.	Optional	overline line-through underline
<b>Border</b>			
bordercolor	Color for all borders (bottom, top, left, right). Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderstyle	This attribute specifies the line style of all box's border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderwidth	The border width attribute specifies the width of all borders. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
bordertopcolor	Color for the border on the top. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
bordertopstyle	This attribute specifies the line style of a box's top border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
bordertopwidth	The border width attribute specifies the width of the top border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderleftcolor	Color for the border on the left side. Values are any valid color specification.	Optional	#000000 #808080

			#FFFFFF #FF0000
borderleftstyle	This attribute specifies the line style of a box's left border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderleftwidth	The border width attribute specifies the width of the left border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderbottomcolor	Color for the border on the bottom. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderbottomstyle	This attribute specifies the line style of a box's bottom border. Valid values are 'solid', 'double' or 'dashed'.	Optional	solid none
borderbottomwidth	The border width attribute specifies the width of the bottom border. Valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderrightcolor	Color for the border on the right side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderrightstyle	This attribute specifies the line style of a box's right border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderrightwidth	The border width attribute specifies the width of the right border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt

			1mm 5mm
Font			
fontfamily	This attribute specifies a prioritized list of font family names and/or generic family names. To deal with the problem that a single font may not contain glyphs to display all the characters in a document, or that not all fonts are available on all systems, this property allows authors to specify a list of fonts, all of the same style and size, that are tried in sequence to see if they contain a glyph for a certain character. This list is called a "font set".	Optional	Helvetica Times Courier Symbol ZapfDingbats
fontsize	This attribute describes the size of the font when set as "solid". The font size corresponds to the em square, a concept used in typography. Note that certain glyphs may bleed outside their em squares. Some valid values are "xxsmall", "medium", "smaller" or a concrete size, e.g. "110%".	Optional	8pt 10pt 16pt
fontstyle	This attribute requests normal (sometimes referred to as "roman" or "upright"), italic, and oblique faces within a font family. Valid values are "normal", "italic" and "oblique".	Optional	normal italic oblique
fontvariant	In a small-caps font, the glyphs for lowercase letters look similar to the uppercase ones, but in a smaller size and with slightly different proportions. The "font-variant" property requests such a font for bicameral (having two cases, as with Roman script). This property has no visible effect for scripts that are unicameral (having only one case, as with most of the world's writing systems). Valid values are "normal" and "small-caps".	Optional	normal small-caps
fontweight	This attribute specifies the weight of the font. Some valid values are 'normal', 'bold', 'bolder', 'lighter', '100' or '900', where 'normal' is the same as '400', 'bold' is the same as '700'.	Optional	normal bold 100 200 300 400 500 600 700

			800 900
Margin			
margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-bottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-right	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
Padding			
padding	Specifies the width of the padding of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm

			5mm
paddingtop	Specifies the width of the padding on the top of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingleft	Specifies the width of the padding on the left of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingbottom	Specifies the width of the padding on the bottom of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingright	Specifies the width of the padding on the right of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm



# 18

## CISFO:TEXT2

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The CISFO:TEXT2 control outputs plain text. It is placed into a text block container (ROWTEXTBLOCK2 or CELLTEXT2). You either define the text in a fixed way (using the `text` property) or language-dependent (using the `textid` property). The language is passed at runtime as property of the data object.

## Properties

Basis			
text	The text that is output.	Optional	
textid	Textid for the multi language management.	Optional	
stylename	Name of a CISFO style. The style must exist within the form definition.	Optional	
color	Color in which the element is output.	Optional	#000000 #808080 #FFFFFF #FF0000
textalign	The alignment of the text. Valid values are 'center', 'left' or 'right'.	Optional	left center right
textdecoration	Different values for printing the text, so as underline, overline or line-through.	Optional	overline line-through underline
whitespacepreserve	If set to true, white spaces like blanks and line breaks are preserved. If you want tabs to be replaced with more than one blank, also set the property <code>tabspace</code> correspondingly.	Optional	true false
tabspace	Set this property if you want to customize the number of blanks used for tabs in controls with <code>whitespacepreserve=true</code> .	Optional	1 2 4 8
Font			

fontfamily	This attribute specifies a prioritized list of font family names and/or generic family names. To deal with the problem that a single font may not contain glyphs to display all the characters in a document, or that not all fonts are available on all systems, this property allows authors to specify a list of fonts, all of the same style and size, that are tried in sequence to see if they contain a glyph for a certain character. This list is called a "font set".	Optional	Helvetica Times Courier Symbol ZapfDingbats
fontsize	This attribute describes the size of the font when set as "solid". The font size corresponds to the em square, a concept used in typography. Note that certain glyphs may bleed outside their em squares. Some valid values are "xxsmall", "medium", "smaller" or a concrete size, e.g. "110%".	Optional	8pt 10pt 16pt
fontstyle	This attribute requests normal (sometimes referred to as "roman" or "upright"), italic, and oblique faces within a font family. Valid values are "normal", "italic" and "oblique".	Optional	normal italic oblique
fontvariant	In a small-caps font, the glyphs for lowercase letters look similar to the uppercase ones, but in a smaller size and with slightly different proportions. The "font-variant" property requests such a font for bicameral (having two cases, as with Roman script). This property has no visible effect for scripts that are unicameral (having only one case, as with most of the world's writing systems). Valid values are "normal" and "small-caps".	Optional	normal small-caps
fontweight	This attribute specifies the weight of the font. Some valid values are 'normal', 'bold', 'bolder', 'lighter', '100' or '900', where 'normal' is the same as '400', 'bold' is the same as '700'.	Optional	normal bold 100 200 300 400 500 600 700 800 900

Margin			
margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-bottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-right	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
Padding			
padding	Specifies the width of the padding of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm

paddingtop	Specifies the width of the padding on the top of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingleft	Specifies the width of the padding on the left of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingbottom	Specifies the width of the padding on the bottom of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingright	Specifies the width of the padding on the right of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm



# 19 CISFO:TEXTBLOCK2

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The CISFO:TEXTBLOCK2 control outputs plain text that starts within a new line. It is placed into a text block container (ROWTEXTBLOCK2 or CELLTEXT2). You either define the text in a fixed way (using the `text` property) or language-dependent (using the `textid` property). The language is passed at runtime as property of the data object.

## Properties

Basis			
text	The text that is output.	Optional	
textid	Textid for the multi language management.	Optional	
stylename	Name of a CISFO style. The style must exist within the form definition.	Optional	
backgroundcolor	This attribute sets the background color of an element, either a <code>andlt;colorandgt;</code> value or the keyword "transparent", to make the underlying colors shine through.	Optional	#000000 #808080 #FFFFFF #FF0000
color	Color in which the element is output.	Optional	#000000 #808080 #FFFFFF #FF0000
textalign	The alignment of the text. Valid values are 'center', 'left' or 'right'.	Optional	left center right
textdecoration	Different values for printing the text, so as underline, overline or line-through.	Optional	overline line-through underline
Border			
bordercolor	Color for all borders (bottom, top, left, right). Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF

			#FF0000
borderstyle	This attribute specifies the line style of all box's border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderwidth	The border width attribute specifies the width of all borders. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
bordertopcolor	Color for the border on the top. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
bordertopstyle	This attribute specifies the line style of a box's top border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
bordertopwidth	The border width attribute specifies the width of the top border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderleftcolor	Color for the border on the left side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderleftstyle	This attribute specifies the line style of a box's left border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderleftwidth	The border width attribute specifies the width of the left border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm

			5mm
borderbottomcolor	Color for the border on the bottom. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderbottomstyle	This attribute specifies the line style of a box's bottom border. Valid values are 'solid', 'double' or 'dashed'.	Optional	solid none
borderbottomwidth	The border width attribute specifies the width of the bottom border. Valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderrightcolor	Color for the border on the right side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderrightstyle	This attribute specifies the line style of a box's right border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderrightwidth	The border width attribute specifies the width of the right border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
Font			
fontfamily	This attribute specifies a prioritized list of font family names and/or generic family names. To deal with the problem that a single font may not contain glyphs to display all the characters in a document, or that not all fonts are available on all systems, this property allows authors to specify a list of fonts, all of the same style and size, that are tried in sequence to see if they contain a glyph for a certain character. This list is called a "font set".	Optional	Helvetica Times Courier Symbol ZapfDingbats

fontsize	This attribute describes the size of the font when set as "solid". The font size corresponds to the em square, a concept used in typography. Note that certain glyphs may bleed outside their em squares. Some valid values are "xxsmall", "medium", "smaller" or a concrete size, e.g. "110%".	Optional	8pt 10pt 16pt
fontstyle	This attribute requests normal (sometimes referred to as "roman" or "upright"), italic, and oblique faces within a font family. Valid values are "normal", "italic" and "oblique".	Optional	normal italic oblique
fontvariant	In a small-caps font, the glyphs for lowercase letters look similar to the uppercase ones, but in a smaller size and with slightly different proportions. The "font-variant" property requests such a font for bicameral (having two cases, as with Roman script). This property has no visible effect for scripts that are unicameral (having only one case, as with most of the world's writing systems). Valid values are "normal" and "small-caps".	Optional	normal small-caps
fontweight	This attribute specifies the weight of the font. Some valid values are 'normal', 'bold', 'bolder', 'lighter', '100' or '900', where 'normal' is the same as '400', 'bold' is the same as '700'.	Optional	normal bold 100 200 300 400 500 600 700 800 900
Margin			
margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm

margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-bottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-right	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
Padding			
padding	Specifies the width of the padding of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
padding-top	Specifies the width of the padding on the top of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
padding-left	Specifies the width of the padding on the left of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt

			1mm 5mm
paddingbottom	Specifies the width of the padding on the bottom of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingright	Specifies the width of the padding on the right of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm



# 20

## CISFO:TEXTREPLACE2

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Use the CISFO:TEXTREPLACE2 control for variable text output. The most important definition of the TEXTREPLACE2 control is the definition which Java property is bound to obtain the text at runtime. The Java property is part of the data object - the counterpart of the page (see property `objectclass` of control FOPPAGE2).

## Properties

Basis			
valueprop	Adapter property that provides the value that is output within the control.	Obligatory	
datatype	Data type of the output. Some valid values are "date, float, int, time, timestamp".  Dependent from the data type the text may be converted before being rendered.  Example: If specifying "date" then the output will be transferred from "YYYYMMDD" into a date display dependent format, e.g. "DD.MM.YYYY" or "MM/DD/YYYY".	Optional	date float int boolean time timestamp
decimaldigitsprop	Adapter property that passes back information how many decimal digits are to be displayed. Only used with the datatype "float".	Optional	
booleantextprop	Adapter property that passes back text displayed for "boolean" values. Only use this with the datatype "boolean". The property must provide a string containing the text for "true" and "false" separated by a comma. Example: "Yes	Optional	
stylename	Name of a CISFO style. The style must exist within the form definition.	Optional	
color	Color in which the element is output.	Optional	#000000 #808080 #FFFFFF #FF0000
textalign	The alignment of the text. Valid values are 'center', 'left' or 'right'.	Optional	left center right

textdecoration	Different values for printing the text, so as underline, overline or line-through.	Optional	overline line-through underline
whitespacepreserve	If set to true, white spaces like blanks and line breaks are preserved. If you want tabs to be replaced with more than one blank, also set the property tabspaces correspondingly.	Optional	true false
tabspace	Set this property if you want to customize the number of blanks used for tabs in controls with whitespacepreserve=true.	Optional	1 2 4 8
Font			
fontfamily	This attribute specifies a prioritized list of font family names and/or generic family names. To deal with the problem that a single font may not contain glyphs to display all the characters in a document, or that not all fonts are available on all systems, this property allows authors to specify a list of fonts, all of the same style and size, that are tried in sequence to see if they contain a glyph for a certain character. This list is called a "font set".	Optional	Helvetica Times Courier Symbol ZapfDingbats
fontsize	This attribute describes the size of the font when set as "solid". The font size corresponds to the em square, a concept used in typography. Note that certain glyphs may bleed outside their em squares. Some valid values are "xxsmall", "medium", "smaller" or a concrete size, e.g. "110%".	Optional	8pt 10pt 16pt
fontstyle	This attribute requests normal (sometimes referred to as "roman" or "upright"), italic, and oblique faces within a font family. Valid values are "normal", "italic" and "oblique".	Optional	normal italic oblique
fontvariant	In a small-caps font, the glyphs for lowercase letters look similar to the uppercase ones, but in a smaller size and with slightly different proportions. The "font-variant" property requests such a font for bicameral (having two cases, as with Roman script). This property has no visible effect for scripts that are unicameral (having only one case, as with most of the world's writing systems). Valid values are "normal" and "small-caps".	Optional	normal small-caps

fontweight	This attribute specifies the weight of the font. Some valid values are 'normal', 'bold', 'bolder', 'lighter', '100' or '900', where 'normal' is the same as '400', 'bold' is the same as '700'.	Optional	normal bold 100 200 300 400 500 600 700 800 900
Margin			
margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-bottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm

			5mm
marginright	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
Padding			
padding	Specifies the width of the padding of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingtop	Specifies the width of the padding on the top of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingleft	Specifies the width of the padding on the left of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingbottom	Specifies the width of the padding on the bottom of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingright	Specifies the width of the padding on the right of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm



# 21 CISFO:REPLACE2

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The CISFO:REPLACE2 is very similar to CISFO:TEXTREPLACE2. It outputs variable text in the same way as CISFO:TEXTREPLACE2. The only difference: CISFO:TEXTREPLACE2 represents a piece of text within a text block - CISFO:REPLACE2 itself represents a whole text block.

The most important definition of the TEXTREPLACE2 control is the definition which Java Property is bound to obtain the text at runtime. The Java property is part of the data object - the counter part of the page (see property `objectclass` of control FOPPAGE2).

For some data types, you can customize the rendering via additional properties such as `decimaldigitsprop` and `booleantextprop`.

For example, to render the value of a CHECKBOX control as "YES" or "NO", proceed as follows:

1. In the CISFO:REPLACE2 control, set the property `booleantextprop`.

```
<cisfo:replace2 valueprop="myvalue" booleantextprop="mytextprop"
datatype="boolean"></cisfo:replace2>
```

2. At runtime, provide a comma-separated list of values for the rendering of the Boolean value in the "mytextprop" field. The values for this example would be "YES;NO".

For example, to render a float value with no decimal digits, proceed as follows:

1. In the CISFO:REPLACE2 control, set the property `decimaldigitsprop`.

```
<cisfo:replace2 valueprop="myvalue" decimaldigitsprop="mydigitsprop"
datatype="float"></cisfo:replace2>
```

2. At runtime, provide the number of digits in the "mydigitsprop" field. The value for this example would be "0".

## Properties

---

Basis			
valueprop	Adapter property that provides the value that is output within the control.	Obligatory	
datatype	Data type of the output. Some valid values are "date, float, int, time, timestamp".  Dependent from the data type the text may be converted before being rendered.  Example: If specifying "date" then the output will be transferred from "YYYYMMDD" into a date display	Optional	date float int boolean time

	dependent format, e.g. "DD.MM.YYYY" or "MM/DD/YYYY".		timestamp
decimaldigitsprop	Adapter property that passes back information how many decimal digits are to be displayed. Only used with the datatype "float".	Optional	
booleantextprop	Adapter property that passes back text displayed for "boolean" values. Only use this with the datatype "boolean". The property must provide a string containing the text for "true" and "false" separated by a comma. Example: "Yes	Optional	
stylename	Name of a CISFO style. The style must exist within the form definition.	Optional	
backgroundcolor	This attribute sets the background color of an element, either a <code>&lt;color&gt;</code> value or the keyword "transparent", to make the underlying colors shine through.	Optional	#000000 #808080 #FFFFFF #FF0000
columnsspanned	A positive integer, specifying the number of columns spanned.	Optional	2 3
color	Color in which the element is output.	Optional	#000000 #808080 #FFFFFF #FF0000
rowsspanned	A positive integer, specifying the number of rows taht this cell spans.	Optional	2 3
textalign	The alignment of the text. Valid values are 'center', 'left' or 'right'.	Optional	left center right
textdecoration	Different values for printing the text, so as underline, overline or line-through.	Optional	overline line-through underline
whitespacepreserve	If set to true, white spaces like blanks and line breaks are preserved. If you want tabs to be replaced with more than one blank, also set the property tabspaces correspondingly.	Optional	true false

tabspace	Set this property if you want to customize the number of blanks used for tabs in controls with whitespacepreserve=true.	Optional	1 2 4 8
<b>Border</b>			
bordercolor	Color for all borders (bottom, top, left, right). Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderstyle	This attribute specifies the line style of all box's border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderwidth	The border width attribute specifies the width of all borders. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
bordertopcolor	Color for the border on the top. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
bordertopstyle	This attribute specifies the line style of a box's top border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
bordertopwidth	The border width attribute specifies the width of the top border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderleftcolor	Color for the border on the left side. Values are any valid color specification.	Optional	#000000 #808080

			#FFFFFF #FF0000
borderleftstyle	This attribute specifies the line style of a box's left border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderleftwidth	The border width attribute specifies the width of the left border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderbottomcolor	Color for the border on the bottom. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderbottomstyle	This attribute specifies the line style of a box's bottom border. Valid values are 'solid', 'double' or 'dashed'.	Optional	solid none
borderbottomwidth	The border width attribute specifies the width of the bottom border. Valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderrightcolor	Color for the border on the right side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderrightstyle	This attribute specifies the line style of a box's right border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderrightwidth	The border width attribute specifies the width of the right border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt

			1mm 5mm
Font			
fontfamily	This attribute specifies a prioritized list of font family names and/or generic family names. To deal with the problem that a single font may not contain glyphs to display all the characters in a document, or that not all fonts are available on all systems, this property allows authors to specify a list of fonts, all of the same style and size, that are tried in sequence to see if they contain a glyph for a certain character. This list is called a "font set".	Optional	Helvetica Times Courier Symbol ZapfDingbats
fontsize	This attribute describes the size of the font when set as "solid". The font size corresponds to the em square, a concept used in typography. Note that certain glyphs may bleed outside their em squares. Some valid values are "xxsmall", "medium", "smaller" or a concrete size, e.g. "110%".	Optional	8pt 10pt 16pt
fontstyle	This attribute requests normal (sometimes referred to as "roman" or "upright"), italic, and oblique faces within a font family. Valid values are "normal", "italic" and "oblique".	Optional	normal italic oblique
fontvariant	In a small-caps font, the glyphs for lowercase letters look similar to the uppercase ones, but in a smaller size and with slightly different proportions. The "font-variant" property requests such a font for bicameral (having two cases, as with Roman script). This property has no visible effect for scripts that are unicameral (having only one case, as with most of the world's writing systems). Valid values are "normal" and "small-caps".	Optional	normal small-caps
fontweight	This attribute specifies the weight of the font. Some valid values are 'normal', 'bold', 'bolder', 'lighter', '100' or '900', where 'normal' is the same as '400', 'bold' is the same as '700'.	Optional	normal bold 100 200 300 400 500 600

			700 800 900
Margin			
margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-bottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-right	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
Padding			
padding	Specifies the width of the padding of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt

			1mm 5mm
paddingtop	Specifies the width of the padding on the top of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingleft	Specifies the width of the padding on the left of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingbottom	Specifies the width of the padding on the bottom of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingright	Specifies the width of the padding on the right of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm

# VI Other Controls

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The information provided in this part is organized under the following headings:

[Lists of Data](#)

[Style Control](#)

[Image Control](#)

[Barcode Control](#)

[New Page Control](#)

[Controls that you Know from Application Designer HTML](#)



# 22

## Lists of Data

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The CISFO:ROWTABLEAREA2 control is used for rendering lists. Have a look at the following example:

Header		
Article	Description	Price
470	Article 470	100,00
471	Article 471	100,00
472	Article 472	100,00
473	Article 473	100,00
474	Article 474	100,00
475	Article 475	100,00
476	Article 476	100,00
477	Article 477	100,00
478	Article 478	100,00
479	Article 479	100,00
4710	Article 4710	100,00
4711	Article 4711	100,00
4712	Article 4712	100,00
4713	Article 4713	100,00
4714	Article 4714	100,00
4715	Article 4715	100,00
4716	Article 4716	100,00
4717	Article 4717	100,00
4718	Article 4718	100,00
4719	Article 4719	100,00
4720	Article 4720	100,00
4721	Article 4721	100,00
4722	Article 4722	100,00
4723	Article 4723	100,00
4724	Article 4724	100,00
4725	Article 4725	100,00
4726	Article 4726	100,00
4727	Article 4727	100,00
4728	Article 4728	100,00
4729	Article 4729	100,00
4730	Article 4730	100,00
4731	Article 4731	100,00
4732	Article 4732	100,00
4733	Article 4733	100,00
4734	Article 4734	100,00
4735	Article 4735	100,00
4736	Article 4736	100,00
4737	Article 4737	100,00
4738	Article 4738	100,00
4739	Article 4739	100,00
4740	Article 4740	100,00
4741	Article 4741	100,00
4742	Article 4742	100,00
4743	Article 4743	100,00
4744	Article 4744	100,00
4745	Article 4745	100,00
4746	Article 4746	100,00
4747	Article 4747	100,00
4748	Article 4748	100,00
4749	Article 4749	100,00

Page 1 of 1

The XML form definition is:

```
<cisfo:foppage2 objectclass="PdfTableAdapter" pageheight="29.7cm" pagewidth="21cm" ↵
margin top="1cm" margin bottom="0.5cm" margin left="1cm" margin right="1cm" ↵
header height="1.5cm" footer height="1.3cm">
  <cisfo:styleclasses2>
    <cisfo:style2 stylename="HL" background color="#C0C0C0" border color="#000000" ↵
border style="solid" border width="0.1mm">
    </cisfo:style2>
    <cisfo:style2 stylename="IL" border color="#000000" border style="solid" ↵
border width="0.1mm">
    </cisfo:style2>
  </cisfo:styleclasses2>
  <cisfo:header2>
```

```

    <cisfo:rowtextblock2 text="Header" textalign="center">
    </cisfo:rowtextblock2>
</cisfo:header2>
<cisfo:footer2>
    <cisfo:hline2>
    </cisfo:hline2>
    <cisfo:vdist2 height="0.3cm">
    </cisfo:vdist2>
    <cisfo:rowtextblock2 text="Page" textalign="center">
        <cisfo:pagenumber2 separator=" of ">
        </cisfo:pagenumber2>
    </cisfo:rowtextblock2>
</cisfo:footer2>
<cisfo:body2>
    <cisfo:rowtablearea2 columnwidths="5cm;9cm;5cm" gridprop="lines">
        <cisfo:headline2>
            <cisfo:row2>
                <cisfo:celltext2 text="Article" stylename="HL">
                </cisfo:celltext2>
                <cisfo:celltext2 text="Description" stylename="HL">
                </cisfo:celltext2>
                <cisfo:celltext2 text="Price" stylename="HL">
                </cisfo:celltext2>
            </cisfo:row2>
        </cisfo:headline2>
        <cisfo:repeat2>
            <cisfo:row2>
                <cisfo:replace2 valueprop="article" stylename="IL">
                </cisfo:replace2>
                <cisfo:replace2 valueprop="description" stylename="IL">
                </cisfo:replace2>
                <cisfo:replace2 valueprop="price" stylename="IL">
                </cisfo:replace2>
            </cisfo:row2>
        </cisfo:repeat2>
    </cisfo:rowtablearea2>
</cisfo:body2>
</cisfo:foppage2>

```

Below the ROWTABLEAREA2 control, you see an arrangement of:

- CISFO:HEADLINE2 - represents the headline; the headline is repeated on every page of the list.
- CISFO: REPEAT2 - represents the part that is repeated as many times as items of the list are available.

The data object representation's class looks as follows:

```
public class PdfTableAdapter
    implements IFOPDataObject
{
    // default constructor
    public PdfTableAdapter()
    {
    }

    public PdfTableAdapter(PDFFOPPreviewOnly previewObject)
    {
        for (int i=0; i<50; i++)
        {
            LinesItem li = new LinesItem();
            li.setAtricle("47" + i);
            li.setDescription("Article 47" + i);
            li.setPrice("100,00");
            m_lines.add(li);
        }
    }

    // -----
    // property access
    // -----

    // class >LinesItem<
    public class LinesItem
    {
        // property >atricle<
        String m_atricle;
        public String getAtricle() { return m_atricle; }
        public void setAtricle(String value) { m_atricle = value; }

        // property >description<
        String m_description;
        public String getDescription() { return m_description; }
        public void setDescription(String value) { m_description = value; }

        // property >price<
        String m_price;
        public String getPrice() { return m_price; }
        public void setPrice(String value) { m_price = value; }
    }

    // property >lines<
    GRIDCollection m_lines = new GRIDCollection();
    public GRIDCollection getLines() { return m_lines; }
    ...
    ...
    ...
}
```

# 23 Style Control

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- Properties ..... 128

There is a variety of style parameters that can be defined with each control representing a text block: background color, foreground color, margins, padding definitions, borders, etc.

You either can define this parameter with every control or you can define explicit styles. By referencing the name of the style from the controls, the style parameters are taken over automatically. Of course you can still override style definitions locally.

The CISFO:STYLE2 control represents a certain style. It is placed into the CISFO:STYLECLASSES2 container, directly below the page control (CISFO:FOPPAGE2). In the FO form, you refer to this style by using the control's name (property `stylename`).

## Properties

---

Basis			
<code>stylename</code>	Name for the style. Must be unique inside the form. Other controls reference this style name in order to take over the style's rendering information.	Obligatory	
<code>backgroundcolor</code>	This attribute sets the background color of an element, either a <code>&amp;lt;color&amp;gt;</code> value or the keyword "transparent", to make the underlying colors shine through.	Optional	#000000 #808080 #FFFFFF #FF0000
<code>columnsspanned</code>	A positive integer, specifying the number of columns spanned.	Optional	2 3
<code>color</code>	Color in which the element is output.	Optional	#000000 #808080 #FFFFFF #FF0000
<code>rowsspanned</code>	A positive integer, specifying the number of rows taht this cell spans.	Optional	2 3
<code>textalign</code>	The alignment of the text. Valid values are 'center', 'left' or 'right'.	Optional	left center right

textdecoration	Different values for printing the text, so as underline, overline or line-through.	Optional	overline line-through underline
whitespacepreserve	If set to true, white spaces like blanks and line breaks are preserved. If you want tabs to be replaced with more than one blank, also set the property tabspaces correspondingly.	Optional	true false
tabspace	Set this property if you want to customize the number of blanks used for tabs in controls with whitespacepreserve=true.	Optional	1 2 4 8
<b>Border</b>			
bordercolor	Color for all borders (bottom, top, left, right). Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderstyle	This attribute specifies the line style of all box's border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderwidth	The border width attribute specifies the width of all borders. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
bordertopcolor	Color for the border on the top. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
bordertopstyle	This attribute specifies the line style of a box's top border. Some valid values are "solid", "double" or "dashed".	Optional	solid none

borderwidth	The border width attribute specifies the width of the top border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderleftcolor	Color for the border on the left side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderleftstyle	This attribute specifies the line style of a box's left border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderleftwidth	The border width attribute specifies the width of the left border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderbottomcolor	Color for the border on the bottom. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF #FF0000
borderbottomstyle	This attribute specifies the line style of a box's bottom border. Valid values are 'solid', 'double' or 'dashed'.	Optional	solid none
borderbottomwidth	The border width attribute specifies the width of the bottom border. Valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
borderrightcolor	Color for the border on the right side. Values are any valid color specification.	Optional	#000000 #808080 #FFFFFF

			#FF0000
borderrightstyle	This attribute specifies the line style of a box's right border. Some valid values are "solid", "double" or "dashed".	Optional	solid none
borderrightwidth	The border width attribute specifies the width of the right border. Some valid values are "thin", "medium", "thick" or a concrete size (e.g. "2pt").	Optional	1pt 5pt 1mm 5mm
Font			
fontfamily	This attribute specifies a prioritized list of font family names and/or generic family names. To deal with the problem that a single font may not contain glyphs to display all the characters in a document, or that not all fonts are available on all systems, this property allows authors to specify a list of fonts, all of the same style and size, that are tried in sequence to see if they contain a glyph for a certain character. This list is called a "font set".	Optional	Helvetica Times Courier Symbol ZapfDingbats
fontsize	This attribute describes the size of the font when set as "solid". The font size corresponds to the em square, a concept used in typography. Note that certain glyphs may bleed outside their em squares. Some valid values are "xxsmall", "medium", "smaller" or a concrete size, e.g. "110%".	Optional	8pt 10pt 16pt
fontstyle	This attribute requests normal (sometimes referred to as "roman" or "upright"), italic, and oblique faces within a font family. Valid values are "normal", "italic" and "oblique".	Optional	normal italic oblique
fontvariant	In a small-caps font, the glyphs for lowercase letters look similar to the uppercase ones, but in a smaller size and with slightly different proportions. The "font-variant" property requests such a font for bicameral (having two cases, as with Roman script). This property has no visible effect for scripts that are unicameral (having only one case, as with most of the world's writing systems). Valid values are "normal" and "small-caps".	Optional	normal small-caps
fontweight	This attribute specifies the weight of the font. Some valid values are 'normal', 'bold', 'bolder', 'lighter', '100' or '900', where 'normal' is the same as '400', 'bold' is the same as '700'.	Optional	normal bold 100

			200 300 400 500 600 700 800 900
Margin			
margin	Sets the margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-top	Sets the top margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-left	Sets the left margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-bottom	Sets the bottom margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt 1mm 5mm
margin-right	Sets the right margin of a box. Negative values for margin properties are allowed, but there may be implementation-specific limits.	Optional	1pt 5pt

			1mm 5mm
Padding			
padding	Specifies the width of the padding of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingtop	Specifies the width of the padding on the top of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingleft	Specifies the width of the padding on the left of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingbottom	Specifies the width of the padding on the bottom of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm
paddingright	Specifies the width of the padding on the right of a block-area or inline-area. Unlike margin properties, values for padding properties cannot be negative.	Optional	1pt 5pt 1mm 5mm



# 24 Image Control

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The CISFO:IMAGE2 control outputs an image. Use property `image` to enter the image's URL in a static way. In order to derive the URL at runtime, use property `valueprop`. In both cases, the URL can either be relative (URL points to an image that is kept within your web application) or absolute (absolute directory path). Do not use absolute URLs if you plan to deploy your web application within a cluster.

The Application Designer demo workplace contains a demo on image URLs. Choose **Release 1.3.0** and then **CISFO2 Image include**. You can call the development workplace via the following link (standard installation):

<http://localhost:51000/cis/HTMLBasedGUI/workplace/demo.html>

## Properties

Basic			
image	The URL of the image.	Optional	
valueprop	The name of the property from that the URL is derived at runtime.	Optional	
width	The width of the image control.	Optional	1pt 12pt 0.5in 1in 1mm 5mm 1cm 1.5cm
height	The height of the image control.	Optional	1pt 12pt 0.5in 1in 1mm 5mm 1cm 1.5cm

# 25 Barcode Control

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■ Properties .....	138
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The CISFO:BARCODE2 control represents a barcode. The text/number of a barcode is derived from a property of the data object that is associated with the page. There are diverse types of barcodes with diverse parameters that are supported.

The barcode internally uses the Krysalis open source framework (<http://www.krysalis.org/>).

## Properties

Basic			
valueprop	<p>Name of adapter property that provides the value that is translated into a corresponding barcode output.</p> <p>Dependent on the barcode type you might only be able to return a limited set of characters as value (e.g. "only number"). The valid character codes are listed in the documentation for the barcodes - please read details there.</p>	Obligatory	
barcodetype	<p>Barcode type that is used for creating the barcode output.</p> <p>There are certain different industry standards that might be used for rendering the barcode.</p>	Optional	INTERLEAVED2OF5 CODE39 USD3 3OF9 CODABAR USD4 NW7 2OF7 CODE128 EAN_UCC128 UPCA UPCE EAN13 EAN8 POSTNET

height	The height of the barcode. The unit is 'mm', 'cm' or 'pt'. The minimal and maximal height depends from the barcode type you use.  Look at the description of the barcodes for details.	Optional	1pt 12pt 0.5in 1in 1mm 5mm 1cm 1.5cm
humandreadable	Definition if the barcode should contain human readable characters. If set to "bottom" then readable characters are rendered below the barcode lines, if set to "top" then they are rendered above.  Define "none" if no characters are to be output as part of the barcode.	Optional	BOTTOM  NONE  TOP
modulewidth	Width of a narrow element. The minimal and maximal width is dependent from the barcode. Look at the description of the barcodes for exact definition.	Optional	
quitezone	Size of the space left and right of the barcode. The minimal and maximal quite zone is dependent from the barcode. Look at the description of the barcodes for exact definition.	Optional	
Special			
checksummode	The checksum mode determines the behaviour for checksums. The possible values are: "add" for adding a checksum, "auto" for the barcode type's default, "check" for creating a checksum and "ignore" for no processing.	Optional	ADD  AUTO  CHECK  IGNORE
igw	Intercharacter gap width. The intercharacter gap width is dependent from the barcode. Look at the description of the barcodes for exact definition.	Optional	
widefactor	A multiply-factor for the wide element. The wide factor is dependent from the barcode. Look at the description of the barcodes for exact definition.	Optional	
POSTNET			
baselinealignment	Determines the alignment of the line in POSTNET barcodes. Possible values are 'bottom' and 'top', as	Optional	BOTTOM  TOP

## Barcode Control

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	consequence short and long lines are aligned correspondingly.		
shortbarheight	The height of the short bars.	Optional	
tallbarheight	The height of the tall bars.	Optional	

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## New Page Control

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- Properties ..... 142

The CISFO:NEWPAGE2 control represents a page break. It is placed below the page control (CISFO:FOPPAGE2).

## Properties

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The CISFO:NEWPAGE2 does not have any properties.

# 27 Controls that you Know from Application Designer HTML

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There are a couple of further controls that you already know from the HTML part of Application Designer:

- CISFO:TEXTGRID2 (for TEXTGRID)
- CISFO:REPORT2 (for REPORT)
- and others.

The rendering of these controls and the binding to the data object is 1:1 equivalent to the rendering and binding of their HTML counterparts.

