

# **OpenText™ Exstream™**

## **DXF Reference**

Design and Production Documentation

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**OpenText™ Exstream**

**DXF Reference**

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# Chapter 1: Introduction to DXF

Exstream (formerly Dialogue) Exchange Format (DXF) is a proprietary XML language for exchanging design and content information between Exstream Design and Production and other systems. Using DXF allows you to import content and designs from other systems into Exstream; to supply content in XML form to other systems; and even to "round-trip" content exported from Exstream, processing it with another system and subsequently importing it back into in Exstream. Solutions that use DXF to integrate Exstream with your existing systems help your organization to reduce migration costs and startup times for new communication applications, maintain consistency across different communication types, and avoid redundant design work and re-entry of data.

You can use this guide as a reference to help you do the following:

- Understand how DXF can be used.
- Understand the contents of DXF created by Exstream or built-in converters.
- Use DXF in creating your own custom tools to convert other formats.

DXF uses XML to describe importable Exstream designs and content. You can use DXF as an intermediate language to integrate almost any type of content with Exstream so that you can use existing content from your other systems in your customer communications. You can rapidly migrate existing designs and content into Exstream, or you can integrate data from other systems with Exstream in real time. For example, suppose you have an existing web interface to enter customer information, and the entered information is stored in a non-Exstream format. You want to create forms using the customer information and print them in a high-volume print production process. However, because the structure of the forms varies from customer to customer, you cannot use a fixed template. You can easily integrate the existing data with Exstream Design and Production to create the forms by transforming the existing format to DXF and importing the DXF into your Exstream Design and Production application. The application can then use the forms just as it could if they were originally created in Exstream. This example illustrates how using DXF to import designs lets you take advantage of the power of Exstream even when there are constraints that don't allow a traditional template or fixed design.

You can also use DXF as an intermediate language to reuse content from Exstream in your other systems. For example, you can convert the customer forms you create in Exstream into DXF so that the forms can be displayed directly in an existing web application designed to display XML-based forms.

Although you can import formatted text and images into Exstream using other formats (such as RTF, DOCX, and tagged text), DXF provides more flexibility for importing and reusing content because you can define objects that make up an Exstream Design and Production application (such as documents, pages, messages, campaigns, rules, and variables), as well as Designer objects (such as shapes and charts). DXF content that is ready to be imported can have a clearly defined structure to fit readily into an Exstream application, and you can then use and edit the imported objects as if they were originally created in Exstream Design and Production. Similarly, when you export DXF content from Exstream for use in another system, you can store

it with the same clearly defined structure so that it can be re-imported into Exstream after changes are made in an external system.

After you develop and set up the necessary programs or transformations, these tasks can be done on demand by users or as an automatic part of your production process so that Exstream is fully integrated with your existing systems.

To help you determine whether DXF is the right tool to use for your particular needs in exchanging content and designs, see [“Is DXF the Right Tool for Your Integration Goals?” on page 14](#).

This chapter discusses the following topics:

- [“Uses of DXF” below](#)
- [“Using DXF in the Lifecycle of Designs and Content” on page 12](#)
- [“Is DXF the Right Tool for Your Integration Goals?” on page 14](#)

## 1.1 Uses of DXF

DXF has several uses throughout a workflow that includes Exstream Design and Production. You can use DXF to integrate Exstream with external systems in the ways described by the following sections:

- [“Importing Designs and Content Into Exstream at Design Time” below](#)
- [“Importing Designs and Content Into Exstream at Run Time” on the next page](#)
- [“Reusing Content from Exstream with Other Systems” on page 11](#)

### 1.1.1 Importing Designs and Content Into Exstream at Design Time

You can use DXF during design and deployment to integrate content from your other systems with Exstream. The built-in Exstream converters for PDF, InDesign, Metacode, Quark, and OGL (each available as a separate module) translate those formats to DXF for importing into Exstream. If you maintain or create applications or designs outside of Exstream, or if you have existing designs that you want to begin maintaining in Exstream, you can develop your own external application to convert any other document or design format to DXF for import into Exstream.

After you develop and configure an external converter and configure the associated application in Exstream Design and Production, conversion tasks can be done on demand by users or as an automatic part of your production process so that Exstream is fully integrated with your existing systems. When you import a DXF file into a design, the DXF file is imported as Library and

design objects, which are editable just like other Library or design objects created directly in Design Manager or Designer.

You can create DXF from complete designs that you might import as pages or documents, or from smaller pieces of content that you might import as paragraphs or other Library components. For example, suppose a marketing group in your organization maintains marketing messages and stores them in XML for use in existing systems, and you want to personalize messages for each customer. You can use an Extensible Stylesheet Language Transformations (XSLT) file to transform the messages to DXF. Then, you can import the messages directly into Design Manager for use in the customer communications that you manage with Exstream, and the messages can be personalized using variables, just as they could be if they were created directly in Exstream.

All DXF elements listed in this guide are supported when importing DXF at design time.

For more information about importing designs into Exstream using the Exstream converters, see *Importing Designs* in the Exstream Design and Production documentation.

For general information about importing content into Exstream at design time, see *Importing External Content* in the Exstream Design and Production documentation.

## 1.1.2 Importing Designs and Content Into Exstream at Run Time

As with other file types, DXF files can be imported at run time as part of the data and content integration functionality in an application. But unlike most file types, which cannot be changed by Exstream when imported at run time, DXF files can be manipulated in the same ways that a design created directly in Exstream Design and Production can be. This capability allows you to use an external application to change output from Exstream Design and Production and then use that output in subsequent processing in Exstream Design and Production without packaging a new application. For example, suppose that your marketing group creates and maintains formatted product descriptions in XML. You can use XSLT to transform the content and formatting into a DXF file. Then, you can import the product descriptions at run time so that they retain their formatting and appear inline with text that was created in Designer. In addition, you can include variables within the DXF so that the descriptions can be customized for each customer during production as if they were originally created in Exstream Design and Production. You can also change elements within designs, unlike PDFs that you might import at run time. For example, if you want an imported form to have fields added for certain customers, importing the form as DXF allows you to use rules to add or remove the fields just as you could in a design you created directly in Exstream Design and Production.

To import DXF at run time, you must have licensed the Dynamic Content Import module. You can use either a placeholder variable (for most applications) or a formatted text variable (when using Live documents) to perform the run-time import.

Keep in mind that certain limitations apply to some objects when importing DXF at run time.

For more information about how specific objects are supported when importing DXF at run time, see ["Considerations for Importing DXF at Run Time" on page 55](#).

For more information about placeholder variables or general information about importing content into Exstream at run time, see *Importing External Content* in the Exstream Design and Production documentation.

For more information about formatted text variables, see *Designing for LiveEditor* in the Exstream Design and Production documentation.

### 1.1.3 Reusing Content from Exstream with Other Systems

You can create DXF output from an Exstream application that allows you to reuse content in your other systems. For example, suppose you want to display the customer forms you create in Exstream in an existing Web application designed to display XML-based forms. Using the XML (composed) output driver, you can produce DXF output from the forms created by your Exstream application to display directly in the Web application. You can also transform the DXF into any other XML language for use in any external application that uses XML content.

You can also "round-trip" content exported from Exstream, processing it with another system and subsequently importing it back into in Exstream at either design time or run time.

The XML files you create with the XML (composed) output driver include all the page layout, formatting, and all objects sent to the print stream (for example, images and pages).

You can use XML (composed) output to do the following:

- Interface with pre-existing XML-based Web-presentation systems.
- Use Extensible Stylesheet Language Transformations (XSLT) to produce HTML or other electronic output.
- Update XML-literate databases directly.
- Produce output that can be imported into QuarkXpress (through a QuarkXTension plug-in).

To use XML (composed) output, you must have licensed the XML (Composed) Output module. XML (composed) output supports a subset of DXF elements. If you export DXF from Exstream and subsequently import it back into Exstream after processing with an external application, then all features supported by XML (composed) output will be retained in the imported objects.

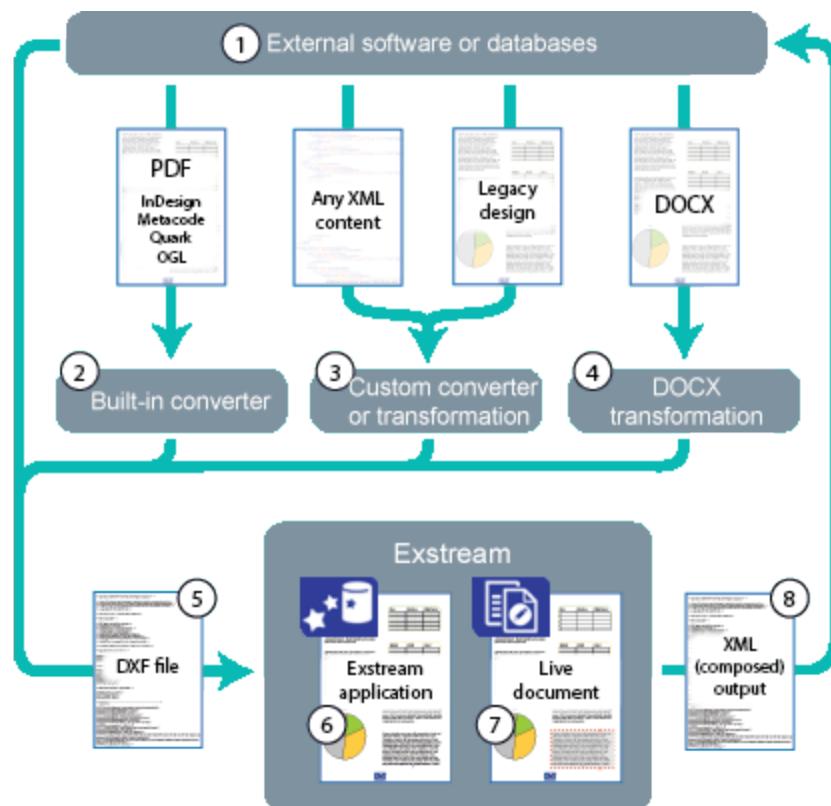
For more information about the DXF elements supported by XML (composed) output, see ["Features Supported for XML \(Composed\) Output and DXF Exported from Design Manager" on page 51](#).

For more information about producing XML (composed) output from Exstream, see *Creating Output* in the Exstream Design and Production documentation.

## 1.2 Using DXF in the Lifecycle of Designs and Content

A DXF file can be used in several ways at various points in an application process. The following illustration shows the roles that DXF can play in integrating an Exstream Design and Production application with your other business systems:

Diagram of the content lifecycle using DXF



	Stage in lifecycle	Description
1	External software or databases	<p>Other software or databases in your system are the initial source of designs or content that you import into Exstream by using DXF. Alternatively, DXF itself might be stored and modified by an external system.</p> <p>At the other end of the cycle, DXF content that is produced as output from an Exstream Design and Production application can be used directly in any XML-based external systems, or it can be transformed or converted for use in systems that require other file formats.</p>

Stage in lifecycle	Description
<b>2</b>	<p>Built-in converters</p> <p>The Exstream converters for PDF, InDesign, Metacode, Quark, and OGL (each available as a separate module) translate designs in those formats to DXF for importing into Exstream. The converters produce DXF files that you can modify and then import into Exstream separately at design time.</p> <p>For more information about importing designs into Exstream using the built-in converters, see <i>Importing Designs</i> in the Exstream Design and Production documentation.</p>
<b>3</b>	<p>External custom converter or transformation</p> <p>If you maintain or create content or designs outside of Exstream, or if you have existing designs that you want to maintain in Exstream in the future, you can develop your own external application to convert any other document or design format to DXF for importing into Exstream at either design time or run time.</p>
<b>4</b>	<p>Built-in DOCX transformation</p> <p>When importing designs or content in DOCX format, Exstream uses a built-in XSL transformation (<code>docx2dxf.xsl</code>) to transform the DOCX content to DXF for importing. In this case, the DXF file is temporarily created during the process of importing the DOCX content at run time.</p> <p>For more information about importing DOCX files, see <i>Importing External Content</i> in the Exstream Design and Production documentation.</p>
<b>5</b>	<p>DXF file</p> <p>Using a converter or transformation produces a DXF file that can be imported into Exstream. The DXF file can be fine-tuned before design-time import if desired. However, when importing DOCX at run time, the transformation is executed during the import process.</p> <p>Alternatively, you might store DXF directly in an external system for modification outside of Exstream and subsequent importing directly into Exstream at either design time or run time.</p>
<b>6</b>	<p>Exstream Design and Production</p> <p>After you have a DXF file, you can import it directly into any Exstream Design and Production application at either design time (using the Import DXF function in Design Manager) or run time (using a DXF placeholder variable), depending on the content in the DXF file and your business processes.</p> <p>For more information about importing content into Exstream, see <i>Importing External Content</i> in the Exstream Design and Production documentation.</p>
<b>7</b>	<p>Exstream Live</p> <p>You can also import a DXF file into LiveEditor using a formatted text variable for use in a Live application.</p> <p>For more information about importing formatted text in a Live application, see <i>Designing for LiveEditor</i> in the Exstream Design and Production documentation.</p>
<b>8</b>	<p>XML (composed) output</p> <p>You can produce DXF output from an Exstream Design and Production application using the XML (composed) output driver. The XML files you create with the XML (composed) output driver include all the page layout, formatting, and all objects sent to the print stream (for example, images and pages).</p> <p>You can use this content directly in any XML-based external system, or the XML (composed) output can be transformed or converted for use in systems that require other file formats.</p> <p>For more information about producing XML (composed) output from Exstream, see <i>Creating Output</i> in the Exstream Design and Production documentation.</p>

## 1.3 Is DXF the Right Tool for Your Integration Goals?

Although several other formats (such as RTF, DOCX, and tagged text) allow you to import formatted text and images in Exstream, DXF provides more flexibility for importing and reusing content because you can define objects that make up an Exstream Design and Production application, as well as Designer objects such as shapes and charts, which can't be defined in other formats. You can set up DXF content to have a clearly defined structure to fit readily into an application, and you can then use and edit the imported objects as if they were originally created in Exstream Design and Production.

Use DXF for your designs and content when any of the following conditions apply:

- Elements from a design or content imported at design time must be stored individually in the Exstream design database.
- Designs or content have dynamic elements that must be changed at run time.
- Designs contain sophisticated graphical elements, such as shapes and charts.
- A method you might otherwise use for run-time import is not supported in your environment.

While DXF provides flexibility to work with external designs and systems, it might require time and effort to develop the solution you need to complete your integration, and an alternative solution might already be available. Before developing a comprehensive DXF solution, consider the following alternatives:

If these conditions apply	Consider this alternative
<ul style="list-style-type: none"><li>• You are importing a design at design time.</li><li>• You want to modify the design in Exstream Design and Production at design time or run time.</li><li>• The design consists of a least one page.</li><li>• You can produce high-fidelity PDFs from your original design application or convert to high-fidelity PDFs from the original format using another method.</li></ul>	<p>Import the design using the PDF Converter module.</p> <p>For more information about importing designs into Exstream using the PDF converter, see <i>Importing Designs</i> in the Exstream Design and Production documentation.</p>
<ul style="list-style-type: none"><li>• You are importing a design or content at run time.</li><li>• The design or content is static: that is, it does not require changes throughout its use in your Exstream Design and Production application.</li></ul>	<p>Use a placeholder variable of a type that matches the design or content you want to import.</p> <p>For more information about using placeholder variables, see <i>Importing External Content</i> in the Exstream Design and Production documentation.</p>
You are using a PDF form that itself is static, but the data on the form might be pre-filled or changed by customers.	<p>Use a PDF XML Forms Architecture form and a PDF form data file.</p> <p>For more information about setting up data files to pre-fill and mine PDF forms, see <i>Using Data to Drive an Application</i> in the Exstream Design and Production documentation.</p>

# Chapter 2: DXF Architecture Overview

Before you begin designing external applications that convert between other file formats and DXF, it's helpful to have a general understanding of how the various design features of Exstream Design and Production are described in DXF. This chapter explains basic structure of DXF and the way DXF elements work together to describe Exstream content and designs. The architecture information described here applies both to DXF converted from other file types and to DXF contained in XML (composed) output created by Exstream.

This chapter discusses the following topics:

- “About DXF Architecture” below
- “Creating a Sample DXF File to Help You Understand How an Existing Design is Constructed” on page 17
- “About DXF Data Types” on page 18
- “About Namespaces” on page 20
- “Special Considerations for Specifying Fonts” on page 20
- “Using Special Characters” on page 21
- “DXF Document Object Model” on page 21

## 2.1 About DXF Architecture

DXF is based on Extensible Stylesheet Language Formatting Objects (XSL-FO), the W3C recommendation for defining XML document presentation. DXF shares some elements with XSL-FO, and it also includes many elements specific to Exstream designs.

The Exstream Object and Content Document Type Definition (DTD) defines the structure of DXF. This DTD file, `ExstreamObjectAndContent.dtd`, is located in the Exstream installation folder.

A DXF file can represent one of the following Exstream Design and Production objects using the corresponding root node:

To represent this item in Exstream Design and Production	Use this element as the root node of your DXF file
Page	<code>dlg:page</code>
Document	<code>dlg:document</code>

To represent this item in Exstream Design and Production	Use this element as the root node of your DXF file
Paragraph	<code>dlg:paragraph</code>
Section	<code>dlg:section</code>
Component	<code>dlg:library-component</code>
Application	<code>dlg:application</code>
Formatted text variable (formatted as Composed XML (DXF) Content)  For more information about using formatted text variables, see <i>Designing for LiveEditor</i> in the Exstream Design and Production documentation.	<code>dlg:dxftext</code>

When constructing DXF, it's helpful to understand the following general concepts:

- Elements can be nested in DXF to represent the hierarchy in the Library in Design Manager. However, whereas nested objects are referenced in the Library, elements can be either referenced or fully contained in the hierarchy of a DXF file. For example, a completed application in Exstream Design and Production must contain a reference to at least one document stored under the **Documents** heading in the Library. In DXF, the `dlg:application` element can contain either a `dlg:document` element that describes the actual document, or a `dlg:document-reference` element to provide a reference to a document. This document could be either a `dlg:document` element located elsewhere in the DXF, or a document object already stored in Exstream Design and Production.
- The name, description, and folder of each Library object is defined by a child `dlg:basic` element.
- You can use components the same way in DXF as you do in Design Manager. After you define a component using the `dlg:library-component` element, you can use the `dlg:library-component-ref` element to reference that component.
- When you use DXF to import external designs, one DXF file can represent multiple pages in a single design. The DXF file maintains information about each page so that when you import the DXF file, each page from the design becomes a page object in the design database.
- DXF can contain binary information to represent images in JPEG or B&W TIFF (uncompressed or CCITT Group 4 compressed) format, using the `dlg:binary` element. Use the `import-type` attribute of the `dlg:image` element to specify the format of an included image.

Keep in mind that not all DXF that is valid according to the Exstream Object and Content DTD will function as expected when imported into Exstream Design and Production. For best results, follow these best practices when developing custom DXF:

- Review the properties that apply to each Library or design object in Design Manager or Designer.
- Whenever possible, export sample DXF for an object that is similar to the object you are

constructing in DXF.

For more information about creating a sample DXF file, see “[Creating a Sample DXF File to Help You Understand How an Existing Design is Constructed](#)” below.

- Thoroughly test any custom DXF using a test database that does not contain production data or objects.

For a full description of the Document Object Model of DXF, see “[DXF Document Object Model](#)” on page 21.

## 2.2 Creating a Sample DXF File to Help You Understand How an Existing Design is Constructed

In working with DXF, it can be helpful to understand the XML structure for existing Exstream design objects. You can export a DXF file from the Library to see the structure for existing objects that are similar to objects you want to import. Because DXF is XML, you can open the file in any XML or text editor.

When exporting DXF, keep in mind the following considerations:

- Although most design objects are supported in DXF, certain objects with limited support might not be exported fully.
- Some objects that are not part of the physical design, such as design groups, are not supported in DXF and are therefore not exported.
- If you plan to import the sample DXF back into the design environment, you should first make sure that the DXF contains all the expected objects and properties before overwriting existing objects.
- If attributes in the exported DXF reference objects in the Library, the DXF can be imported only into the same database in order for those references to stay intact. Importing DXF that contains such references into a different database at design time might create new objects where referenced objects are missing, and the objects imported from the DXF might need modification to function as expected. DXF that contains such references cannot be imported into a different database at run time.

To create a DXF file from an existing design:

1. In Design Manager, in the Library, right-click a Library object that you want to export to DXF.
2. Click **Export to DXF**.

## 2.3 About DXF Data Types

The value of each attribute of a DXF element is a specific data type. However, the data types used for DXF attributes are not the same as the data types used for variables and other components in Exstream Design and Production. The data types used within DXF are suited to the role of DXF in describing content and designs.

The reference section for each element specifies the data type for the value of each attribute.

The value of each attribute is one of the following data types:

Data type	Description	Format
Boolean	Specifies data that is true or false (Abbreviation: Bool)	<p>true or false</p> <p><b>Example:</b></p> <pre>&lt;dlg:page page-duplex="false" ...&gt; ... &lt;/dlg:page&gt;</pre>
Color	Specifies an RGB, CMYK, or ICC color	<p>One of the following:</p> <ul style="list-style-type: none"><li>• <code>rgb(RedValue, BlueValue, GreenValue)</code>, where values are 0 through 255</li><li>• <code>cmyk(CyanValue, MagentaValue, YellowValue, BlackValue)</code>, where values are 0 through 100</li><li>• <code>rgb-icc(RedValue, BlueValue, GreenValue, ColorName)</code>, where values are 0 through 255 and the color name specifies a library color</li></ul> <p><b>Example:</b></p> <pre>&lt;fo:inline color="rgb(0,0,0)"&gt; ... &lt;/fo:inline&gt;</pre>
Coordinate	Specifies a location or size using the format <code>x y</code> (Abbreviation: Coord)	<p>The x-coordinate and units, followed by a space and the y-coordinate and units</p> <p><b>Example:</b></p> <pre>&lt;dlg:paper-type size="210mm 297mm"/&gt;</pre>
Date	Specifies a calendar date	<p><code>yyyy-mm-dd</code></p> <p><b>Example:</b></p> <pre>&lt;dlg:campaign-run start-date="2010-01-01" end-date="2010-12-31" ... /&gt;</pre>

Data type	Description	Format
Enumerated	Specifies a selection from a specific set of options (Abbreviation: Enum)	<p>A text string that represents one of the available options. Available options for enumerated data are determined by the Exstream Object and Content DTD and are listed in this guide for each attribute that uses enumerated data.</p> <p><b>Example:</b></p> <pre>&lt;dlg:barcode barcode-type="code128" orientation="portrait"&gt; ... &lt;/dlg:barcode&gt; &lt;dlg:barcode barcode-type="upc" orientation="landscape"&gt; ... &lt;/dlg:barcode&gt;</pre>
Integer	Specifies a whole number less than 2,000,000,000 (Abbreviation: Int)	<p>Any integer value without thousands separators</p> <p><b>Example:</b></p> <pre>&lt;dlg:table-of-contents num-levels="3"&gt; ... &lt;/dlg:table-of-contents&gt;</pre>
Number	Specifies a whole number or decimal (a number can include units) (Abbreviation: Num)	<p>Any decimal value without thousands separators, and optionally with the units that apply</p> <p><b>Examples:</b></p> <pre>&lt;dlg:paper-type weight="0.150" ... /&gt; &lt;dlg:tab-stop tab-indent="72.00pt" ... /&gt;</pre>
Reference	Specifies a reference to another existing object. The referenced object can be defined within the DXF, or it can exist in the Library in which the DXF will be imported or from which the DXF has been exported. (Abbreviation: Ref)	<p>A reference in the format <code>type oid name</code>, where <code>type</code> is the object type, <code>oid</code> is the internal object ID, and <code>name</code> is the name to use for the object after it is referenced. The referenced object can be an existing Library object, or an object defined elsewhere in the DXF.</p> <p><b>Note:</b> For attributes that reference variables, in cases in which you would select <b>(No Variable)</b> in a <b>Select Variable</b> dialog box in Designer, you can reference a null variable with the setting <code>Variable 0 </code>.</p> <p><b>Example:</b></p> <pre>&lt;dlg:document-reference document-ref="Document 0 TopDown-1" ... /&gt;</pre>
Rect	Specifies the coordinates of a rectangular area	<p>The following coordinates, including units, listed in the specified order, and separated by spaces:</p> <ul style="list-style-type: none"> <li>• y-coordinate of the top of the area</li> <li>• x-coordinate of the left side of the area</li> <li>• y-coordinate of the bottom of the area</li> <li>• x-coordinate of the right side of the area</li> </ul> <p><b>Example:</b></p> <pre>&lt;dlg:page-frame rect="6in 3.625in 9.5in 8.125in" ... /&gt;</pre>

Data type	Description	Format
Text	Specifies a text string	Any text string <b>Example:</b> <code>&lt;dlg:metadata name="author" value="John Smith" /&gt;</code>

## 2.4 About Namespaces

DXF uses two namespaces, `dlg` and `fo`. The elements in the `fo` namespace are either elements that are shared with XSL-FO or elements that are closely related to XSL-FO elements (such as an individual element that uses a set of attributes combined from multiple XSL-FO elements). The elements in the `dlg` namespace are unique to DXF and describe objects that are unique in Exstream.

In some cases, elements in both namespaces might be used to define one object or part of the document. For example, tables are defined using the `dlg:table` element, and rows and columns within a table are defined using the `fo:table-column` and `fo:table-row` elements.

For more information about individual elements, see “[DXF Element Reference](#)” on page 59. Elements in both namespaces are listed together since they are used together to define Exstream designs and content. The namespace is listed for each element.

## 2.5 Special Considerations for Specifying Fonts

A DXF file can specify the fonts used in a design, but no fonts are embedded in the DXF. Thus, you must install any font that is specified in a DXF file on the computer on which you will import the DXF file in order for those fonts to be used in the design. If a font specified in a DXF file is installed but is not in the database, Design Manager automatically imports the appropriate font during import of the DXF file. If a font specified in a DXF file is not installed, Design Manager automatically replaces it with a different font during import, which might change the appearance of the design. The font names used in the DXF file must match those of the installed fonts exactly.

If you want to use different fonts in an Exstream design from those used in the format from which the DXF was converted, and you want to control the fonts substituted, you must either manually edit the converted DXF, or include font substitution functionality in your custom conversion tool. Such font substitution functionality is used in the PDF Converter module.

For more information about importing designs into Exstream using the existing converters, see *Importing Designs* in the Exstream Design and Production documentation.

Using the same fonts as those in the original format provides the best fidelity in the converted and imported design. Keep in mind, however, that font metrics for the same font might differ slightly between computers or environments.

Also keep in mind that because DXF only describes the fonts used in a design and does not replicate the embedded fonts, the licensing for fonts embedded in the format from which the DXF was converted does not apply to the design in Exstream. You must therefore make sure you have the appropriate licenses for fonts on the computer used for completing the design in Exstream.

## 2.6 Using Special Characters

You must use character entities to represent special characters in DXF character data and attributes, just as you would in any XML.

DXF supports all the standard predefined character entities used in XML:

Character entity	Character	Description
&	&	Ampersand
'	'	Apostrophe
>	>	Greater-than sign
<	<	Less-than sign
"	"	Double quotation mark

Additionally, DXF supports numeric character references using hexadecimal syntax, such as &#x0D; (carriage return), &#xA0; (non-breaking space), or &#xAD; (soft hyphen). Supported characters depend on the encoding of the file and the encodings supported by the environment in which the DXF is used.

## 2.7 DXF Document Object Model

The diagrams in this section provide an overview of the overall structure in a DXF file.

The following two sections contain a series of diagrams that show different parts of the DXF structure:

- “[Root-Level Structures](#)” on the next page—Each of these diagrams contains one of the allowed root elements in DXF as the root node and is expanded to show available child nodes. Some child nodes that are used in multiple locations in the overall structure, or that are too large to show in the diagram, are not expanded; these nodes are expanded in

separate diagrams in “[Reused and Large Structures](#) ” on page 28.

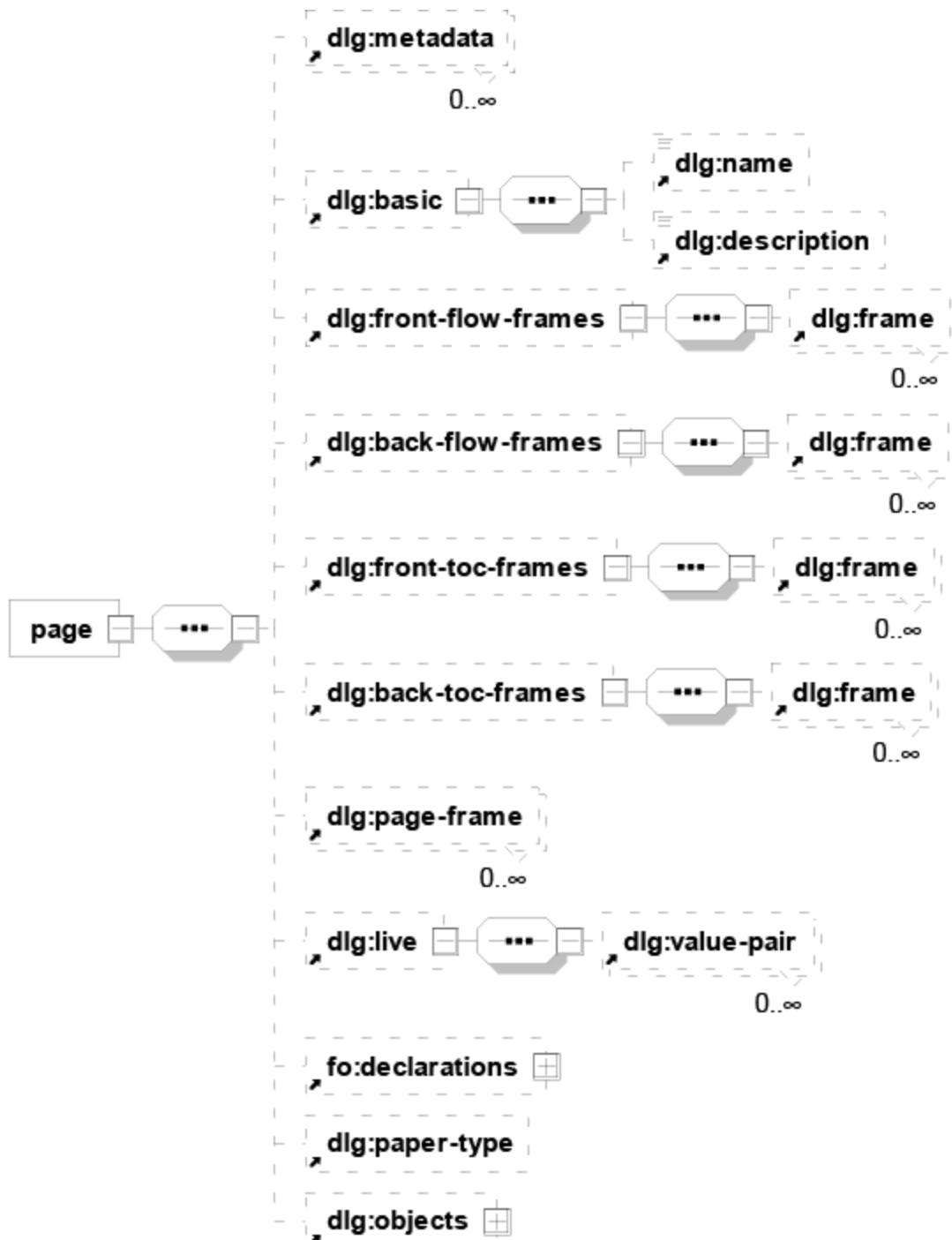
- [“Reused and Large Structures” on page 28](#)—Each of these diagrams contains a node that is collapsed in one or more of the diagrams in “[Root-Level Structures](#)” below, or in another diagram in this section. That element is shown as the root node, expanded to show the available child nodes. Keep in mind that each root node shown in this section is not a root element in DXF but is used in multiple locations in the overall structure, or simply has a structure too large to display in the higher-level structures in which it appears.

## 2.7.1 Root-Level Structures

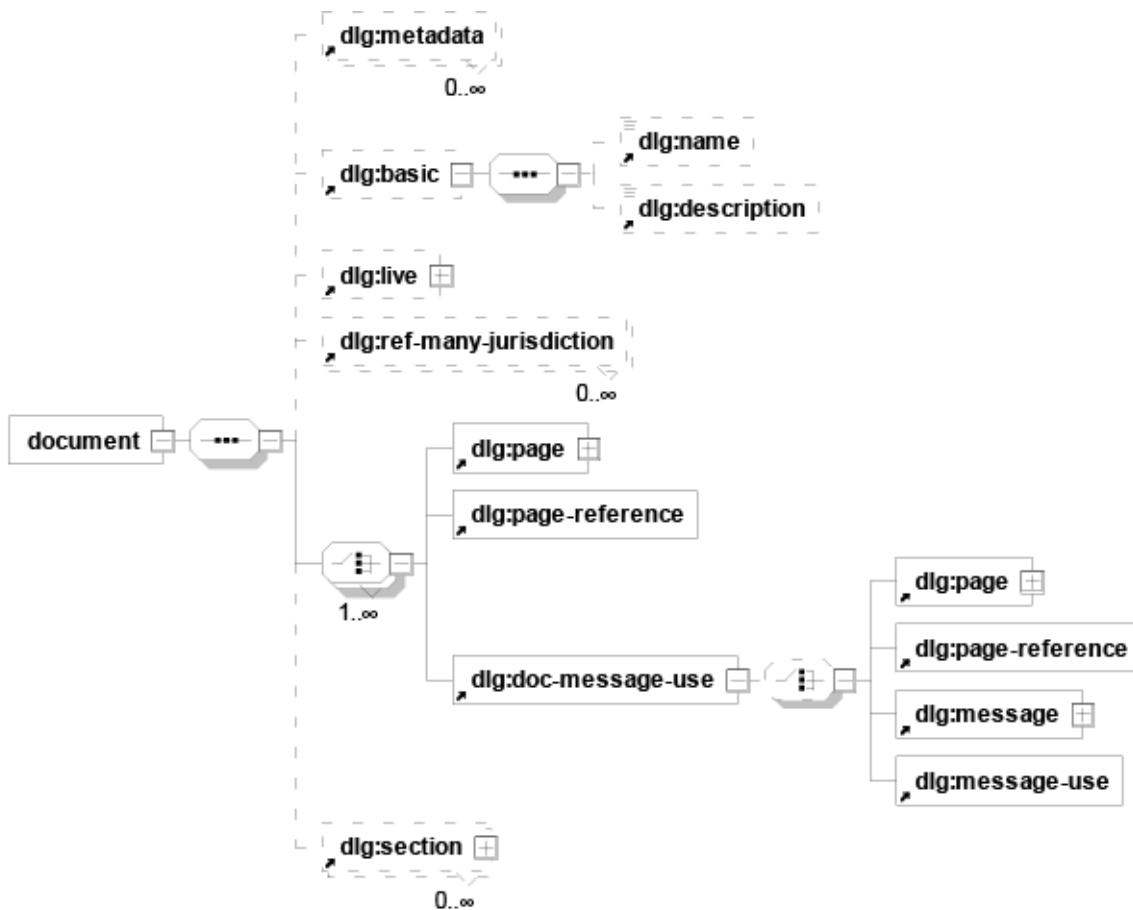
The following diagrams show the expanded structure of the root elements allowed in DXF. Most of these elements can also be used within other structures. For example, `dlg:page` can be a root element, or it can be a child element of `dlg:document`, so it also appears in the structure diagram for `dlg:document`.

Some elements that have children and that are used in multiple locations in DXF are not expanded in the diagrams in this section. For expanded diagrams of those elements, see [“Reused and Large Structures” on page 28](#).

Expanded structure of `dlg:page`



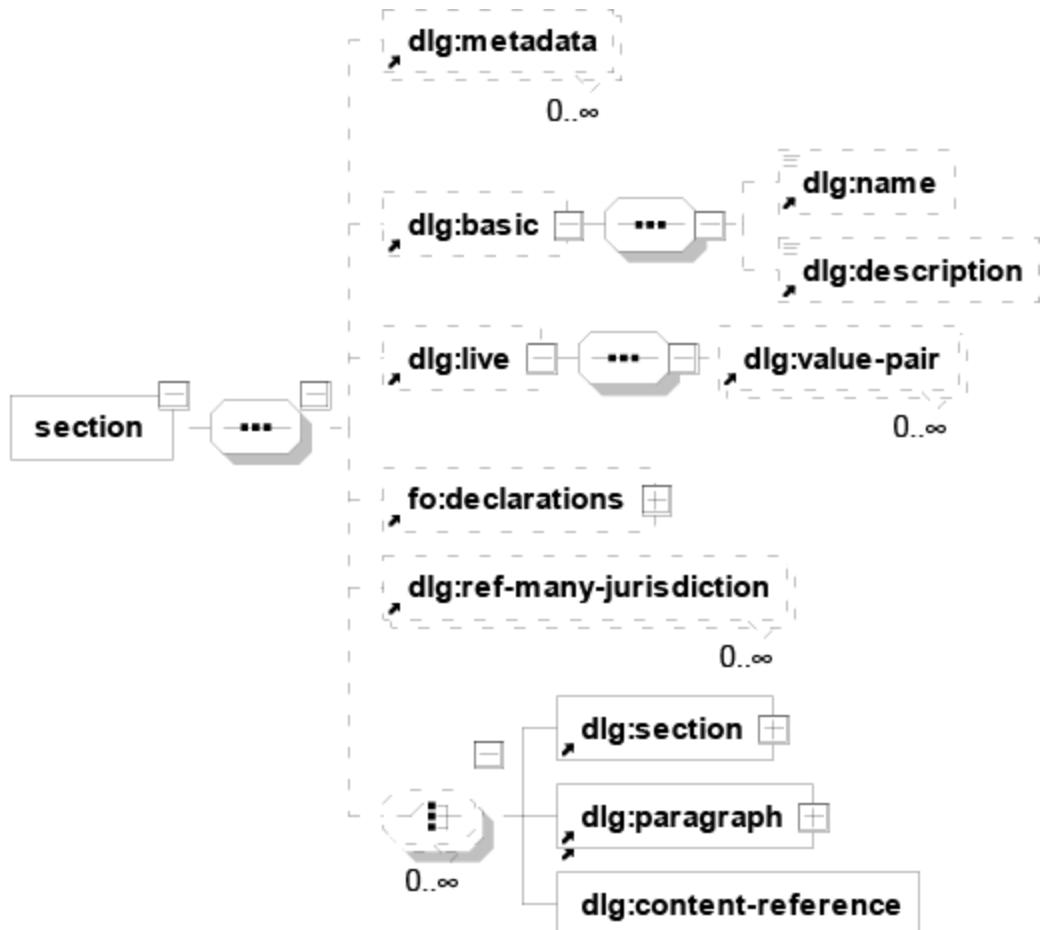
Expanded structure of `dlg:document`



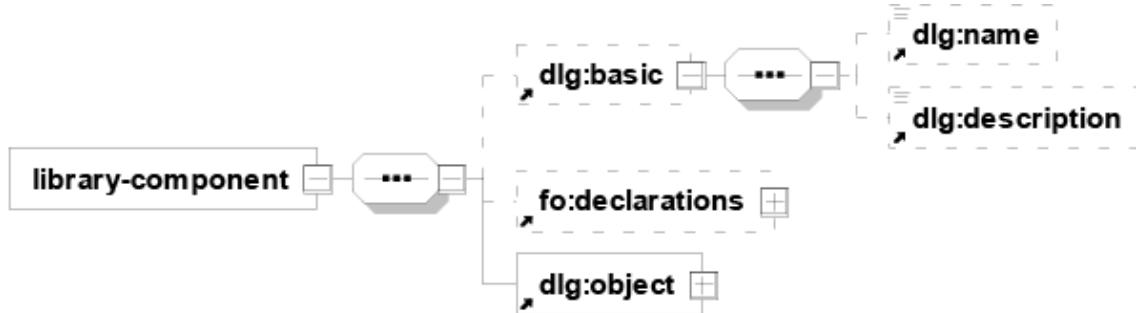
**Expanded structure of `dlg:paragraph`**



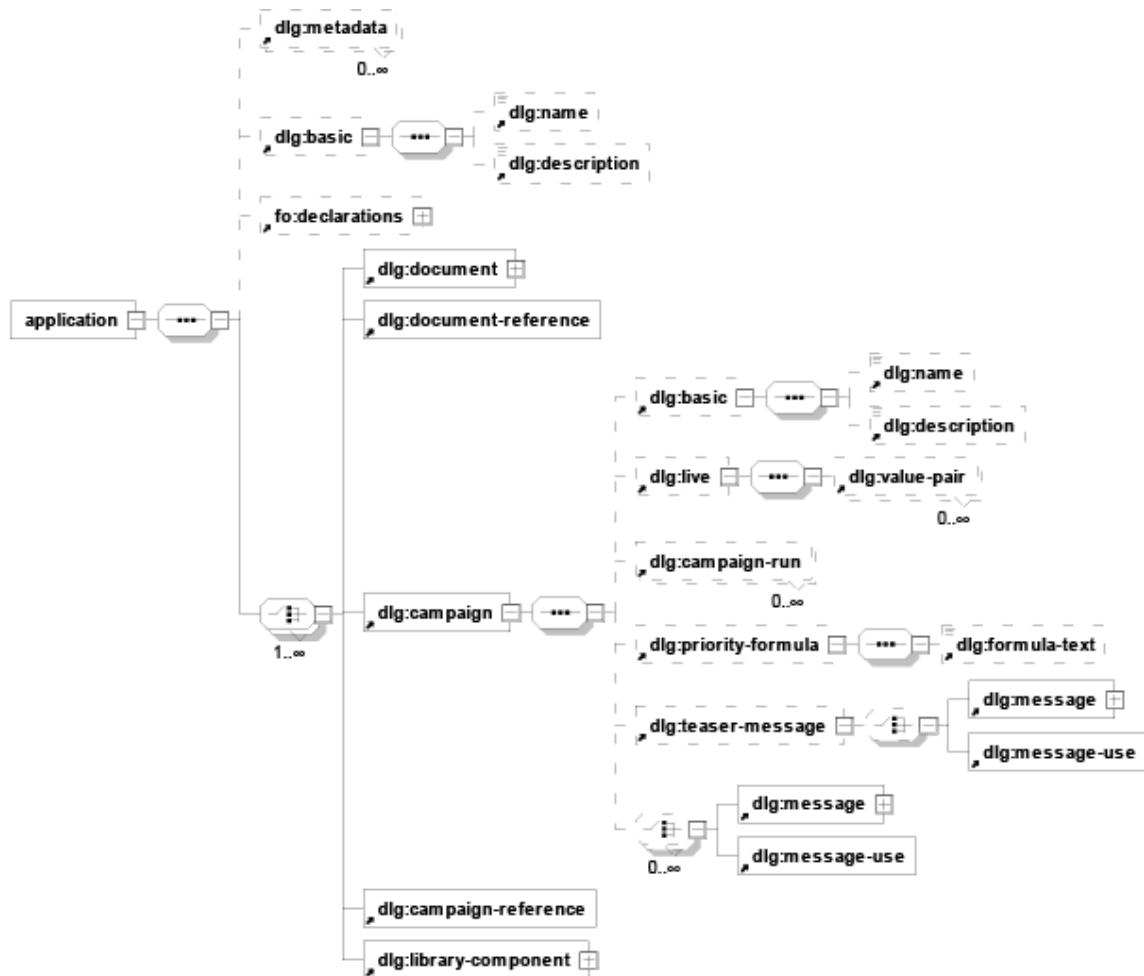
Expanded structure of `dlg:section`



Expanded structure of `dlg:library-component`



Expanded structure of `dlg:application`



#### Expanded structure of `dlg:dxftext`

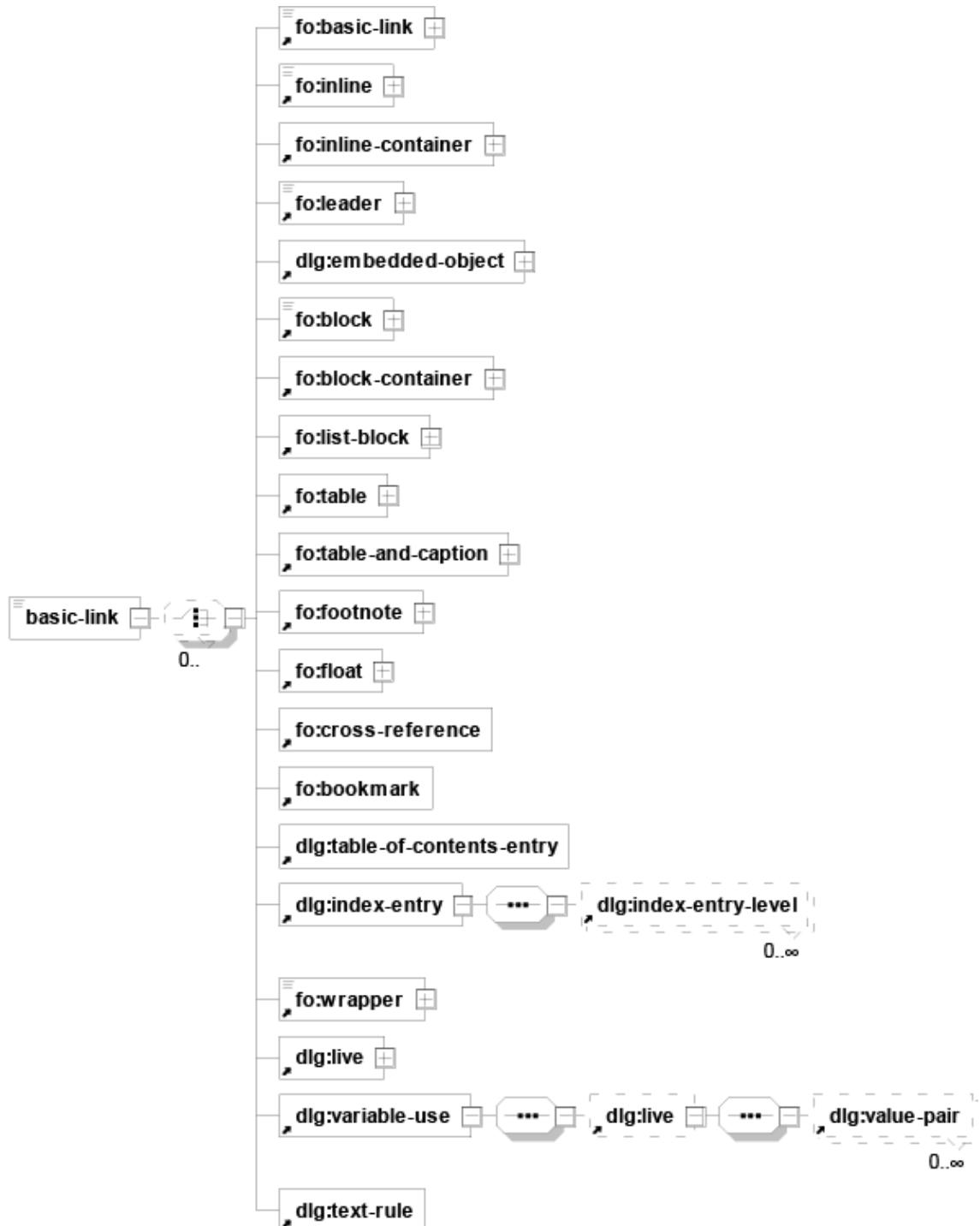


## 2.7.2 Reused and Large Structures

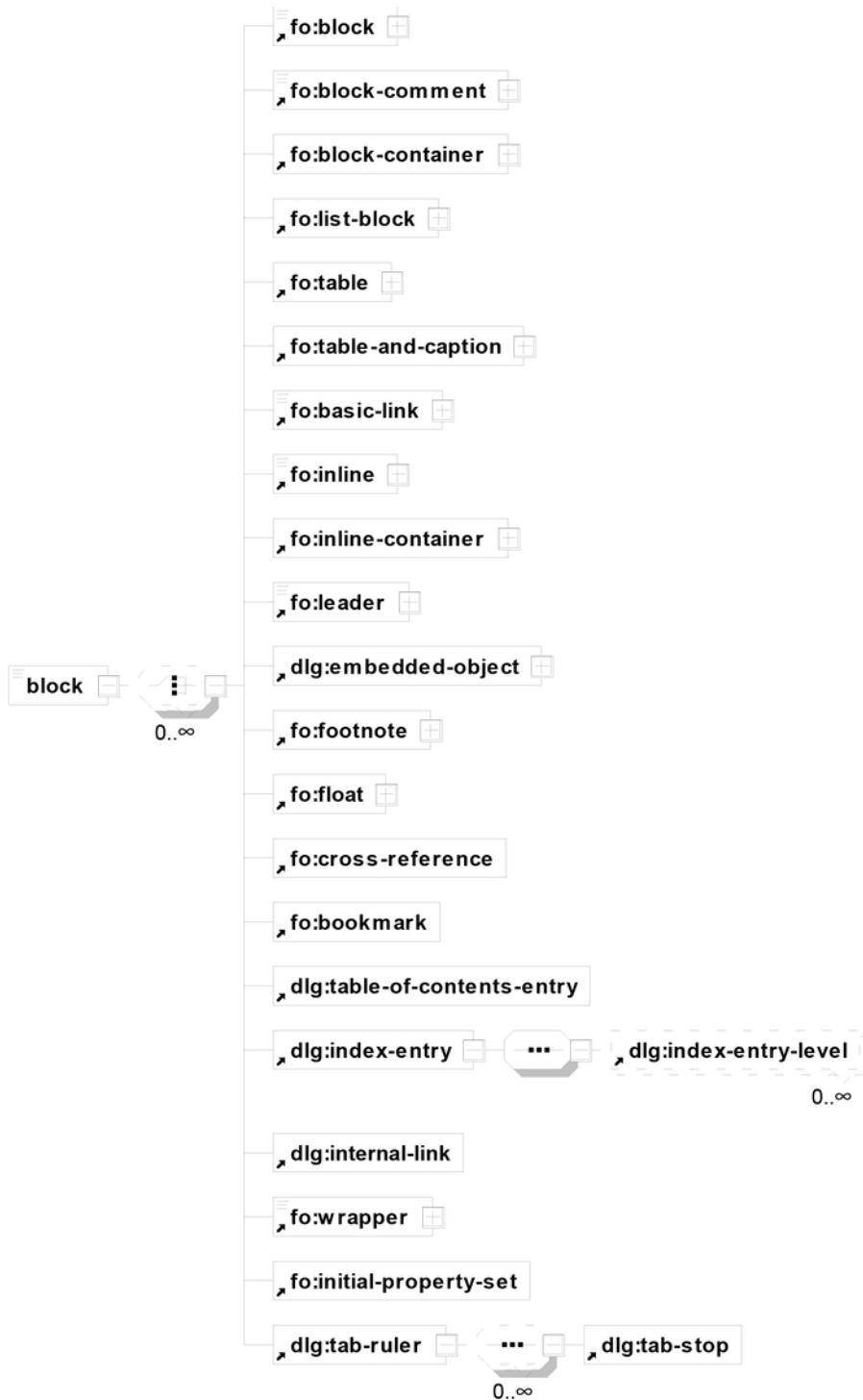
The following diagrams show the expanded structure of the elements that are used within multiple parent elements in DXF, or that are too large to display within other diagrams.

Elements that are children of the `dlg:object` and `dlg:objects` elements are not expanded in the diagrams in this section. For expanded diagrams of those elements, see “[Structures Within the `dlg:object` and `dlg:objects` Elements](#)” on page 35.

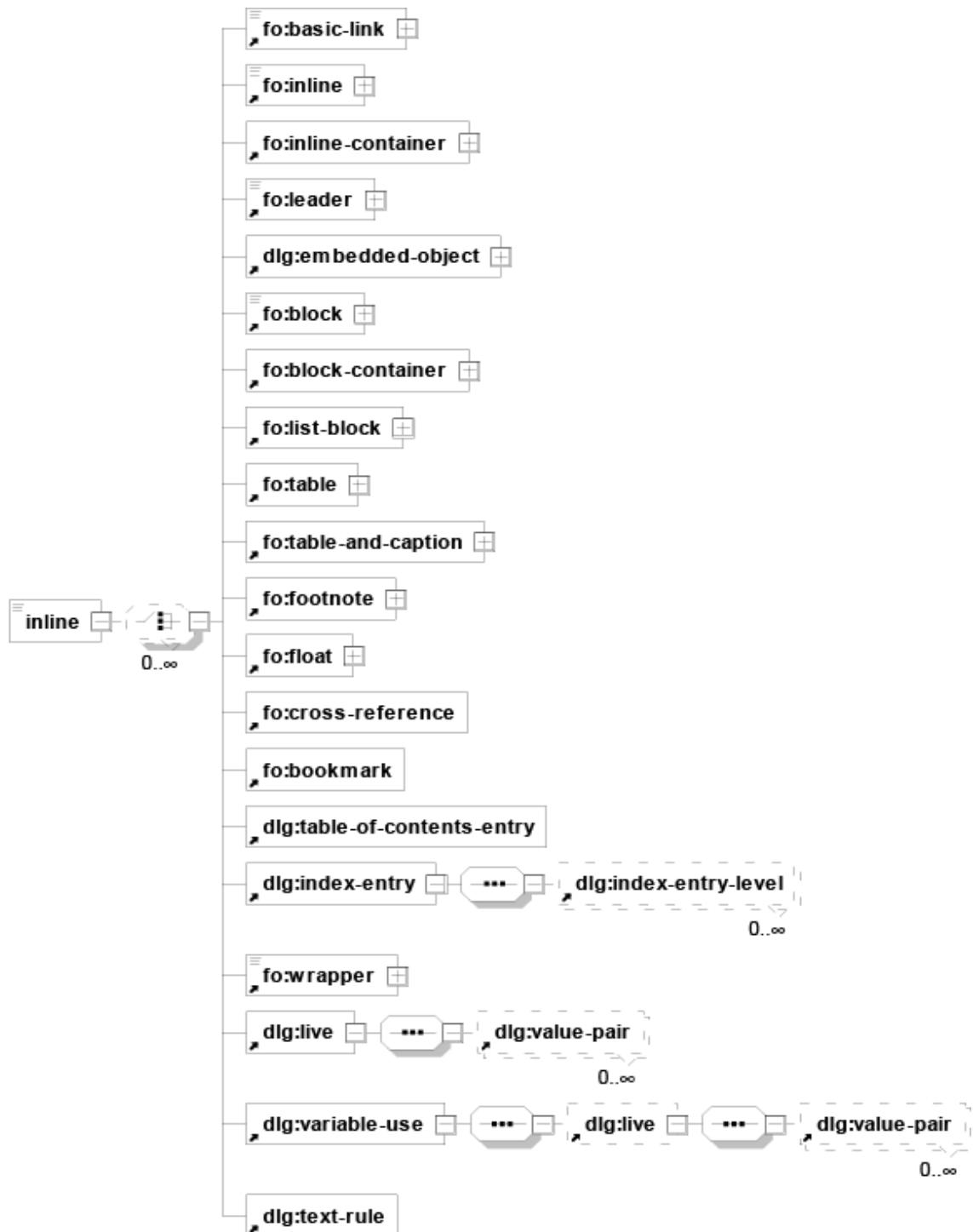
Expanded structure of `fo:basic-link`



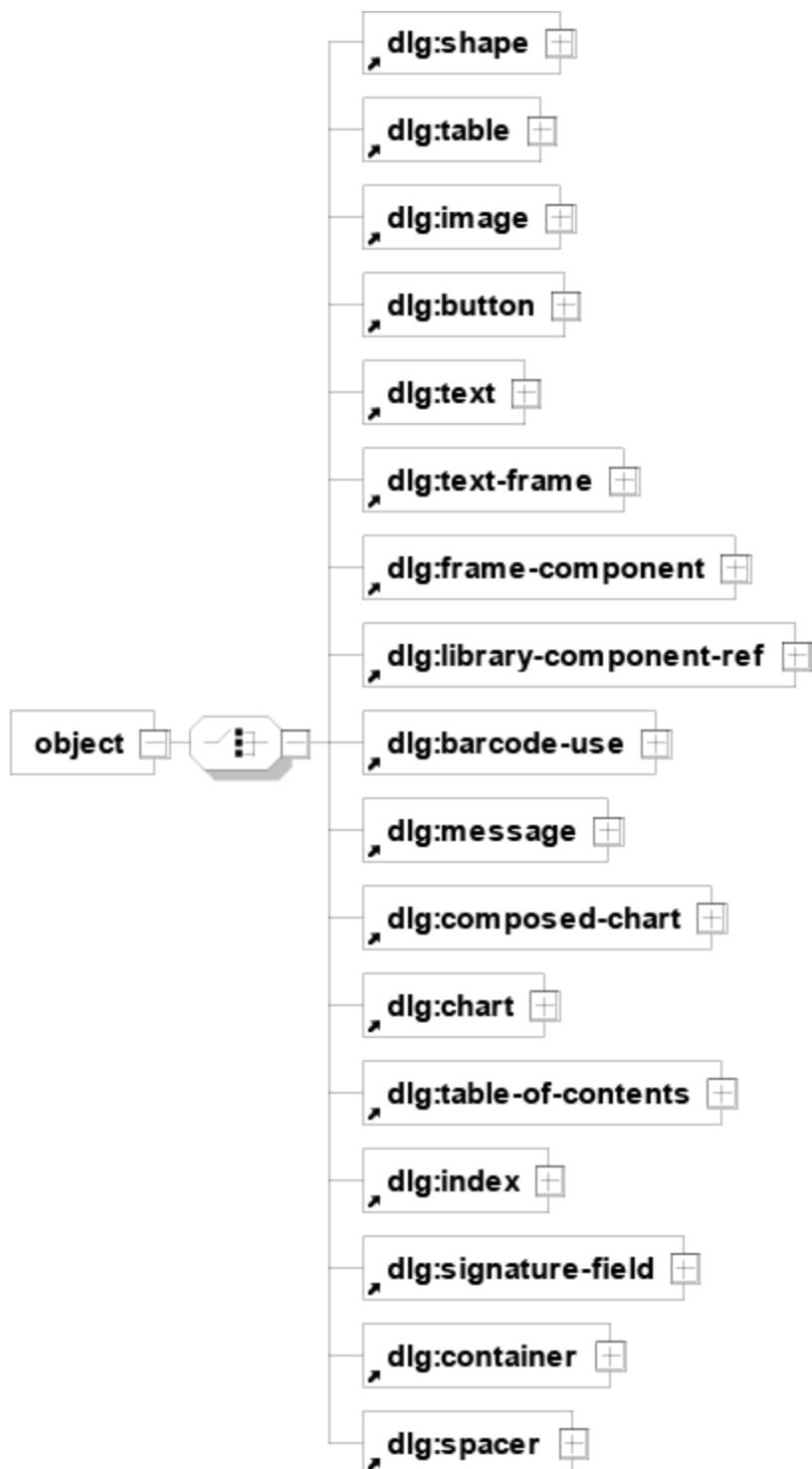
Expanded structure of `fo:block`



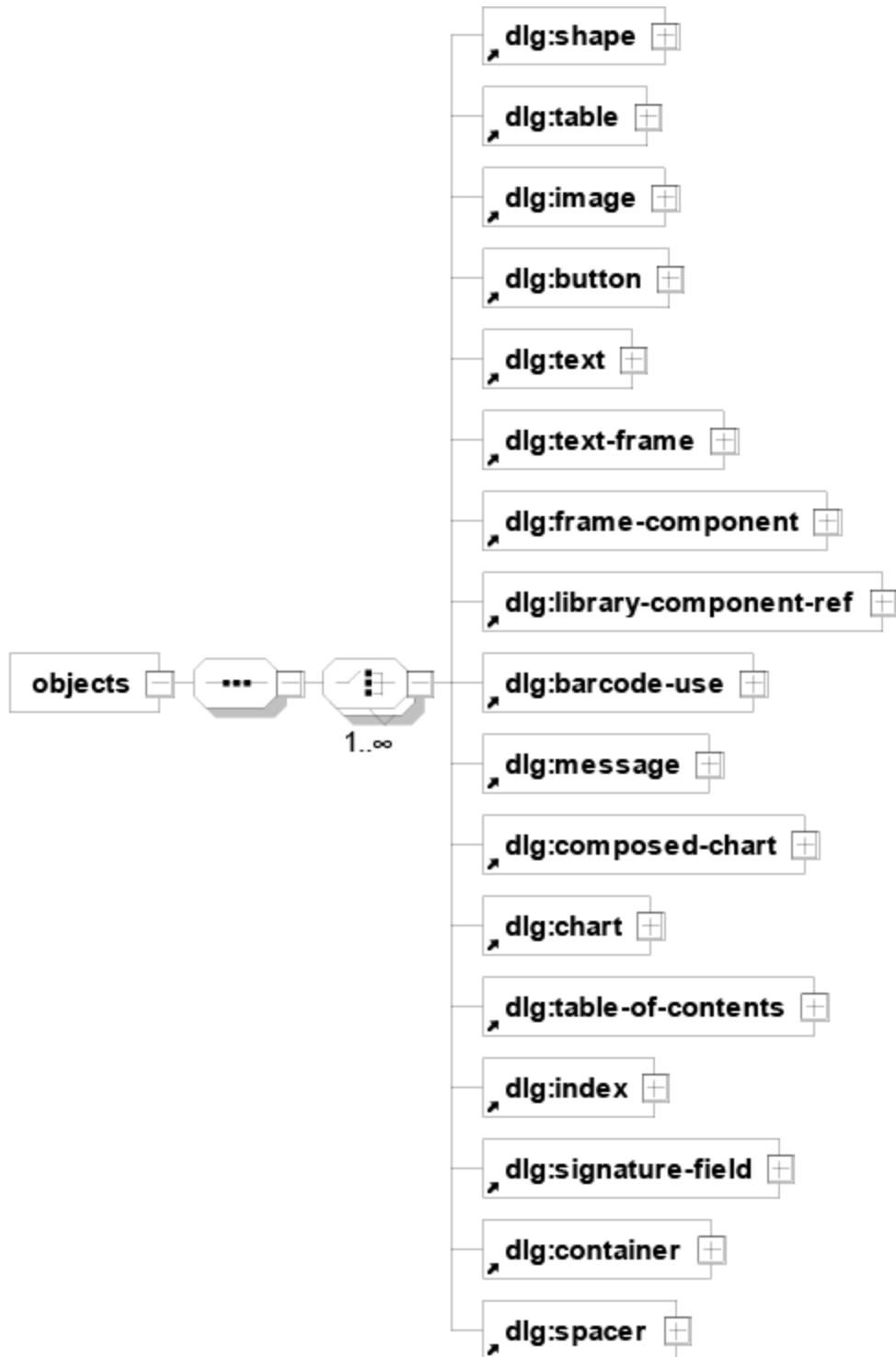
Expanded structure of `fo:inline`



Expanded structure of `dlg:object`



Expanded structure of `dlg:objects`



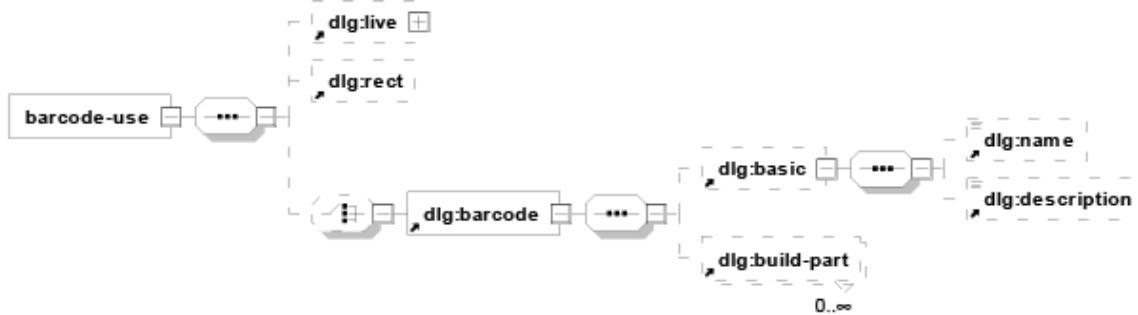
Expanded structure of `fo:declarations`



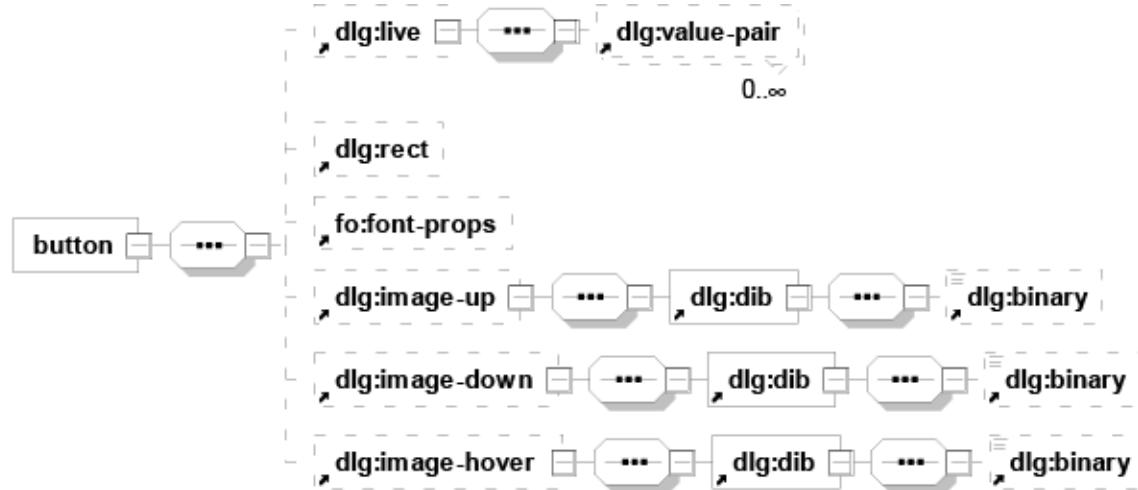
## Structures Within the `dlg:object` and `dlg:objects` Elements

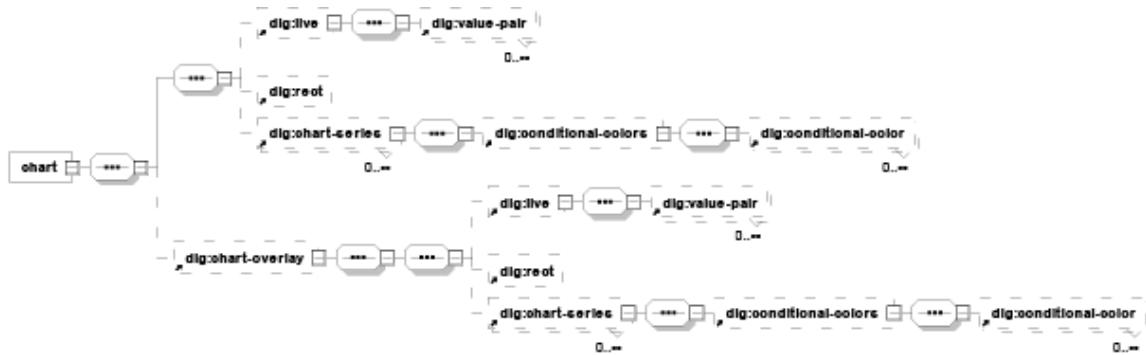
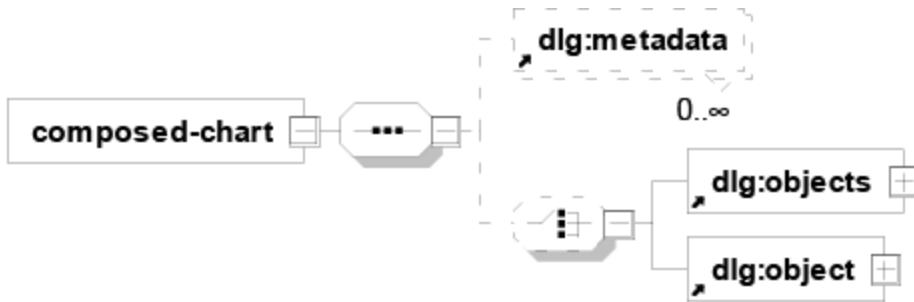
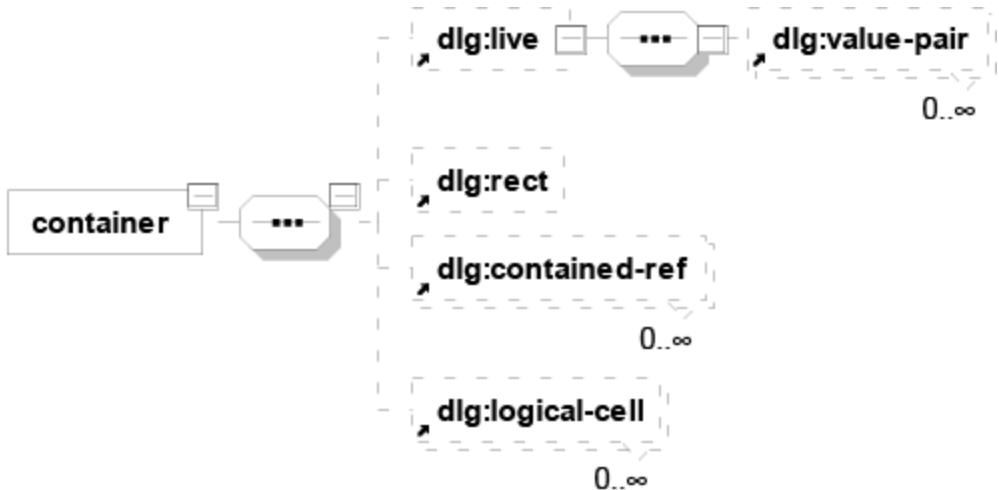
The following diagrams show the expanded structure of the elements that are used within the `dlg:object` and `dlg:objects` elements.

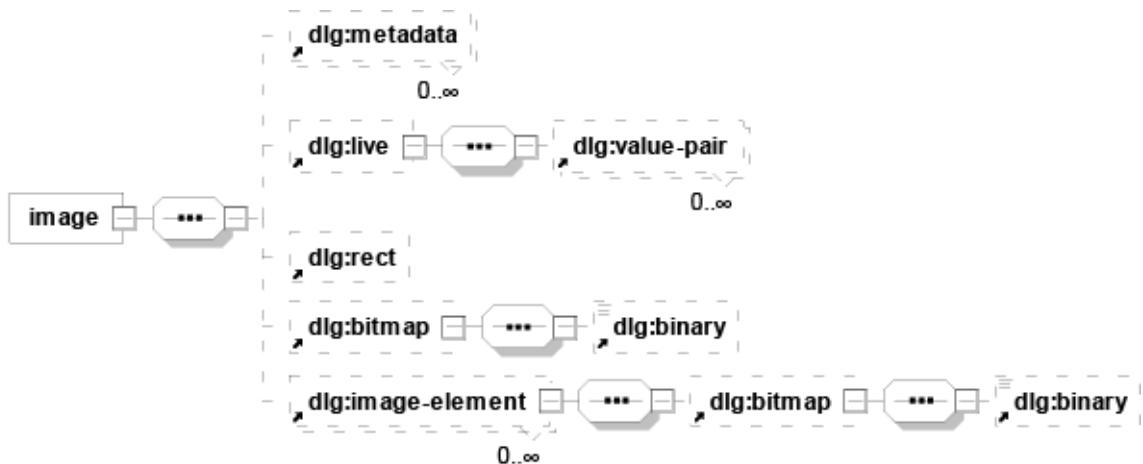
### Expanded structure of `dlg:barcode-use`



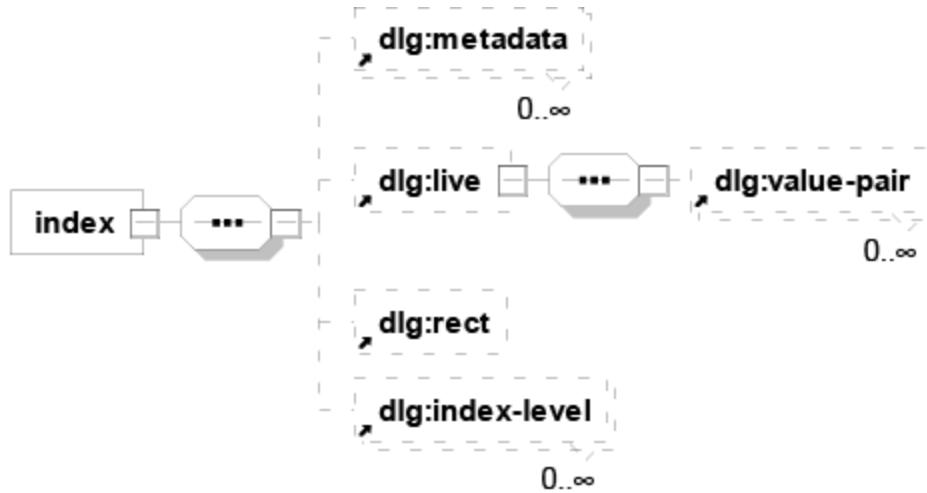
### Expanded structure of `dlg:button`



**Expanded structure of `dlg:chart`****Expanded structure of `dlg:composed-chart`****Expanded structure of `dlg:container`**

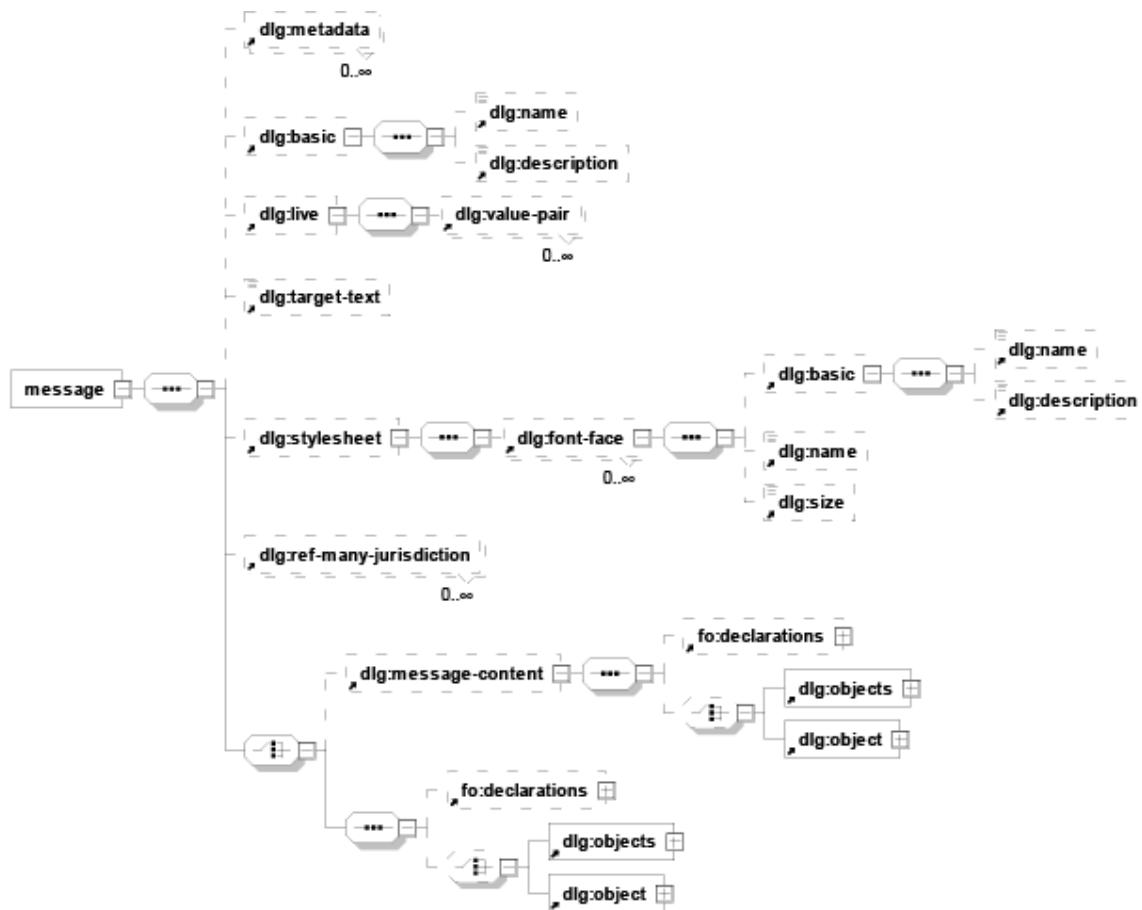
**Expanded structure of `dlg:frame-component`****Expanded structure of `dlg:image`**

Expanded structure of `dlg:index`

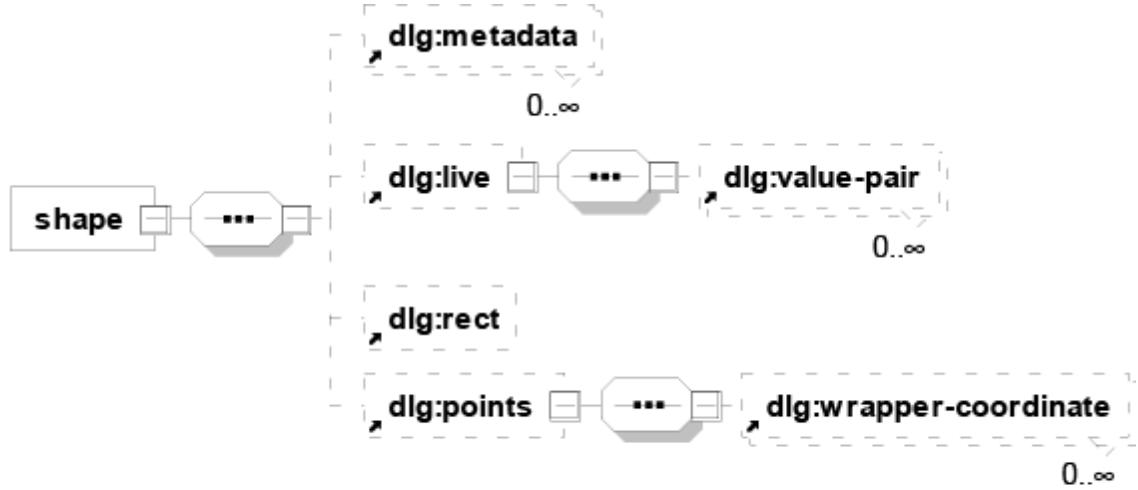


Expanded structure of `dlg:library-component-ref`

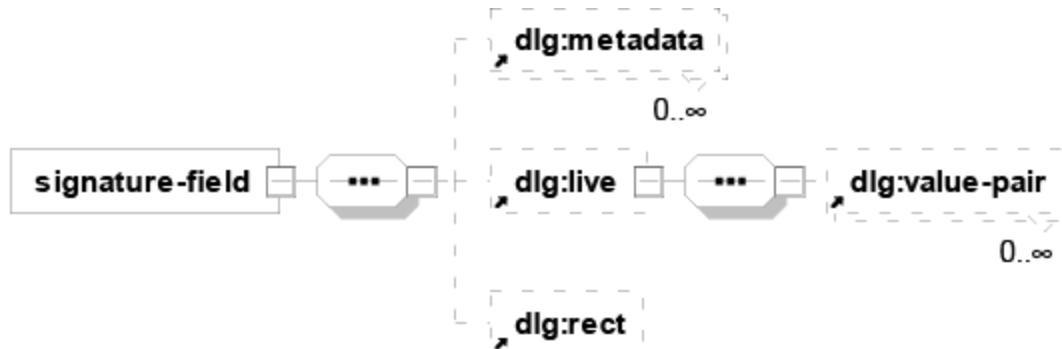


**Expanded structure of `dlg:message`**

Expanded structure of `dlg:shape`



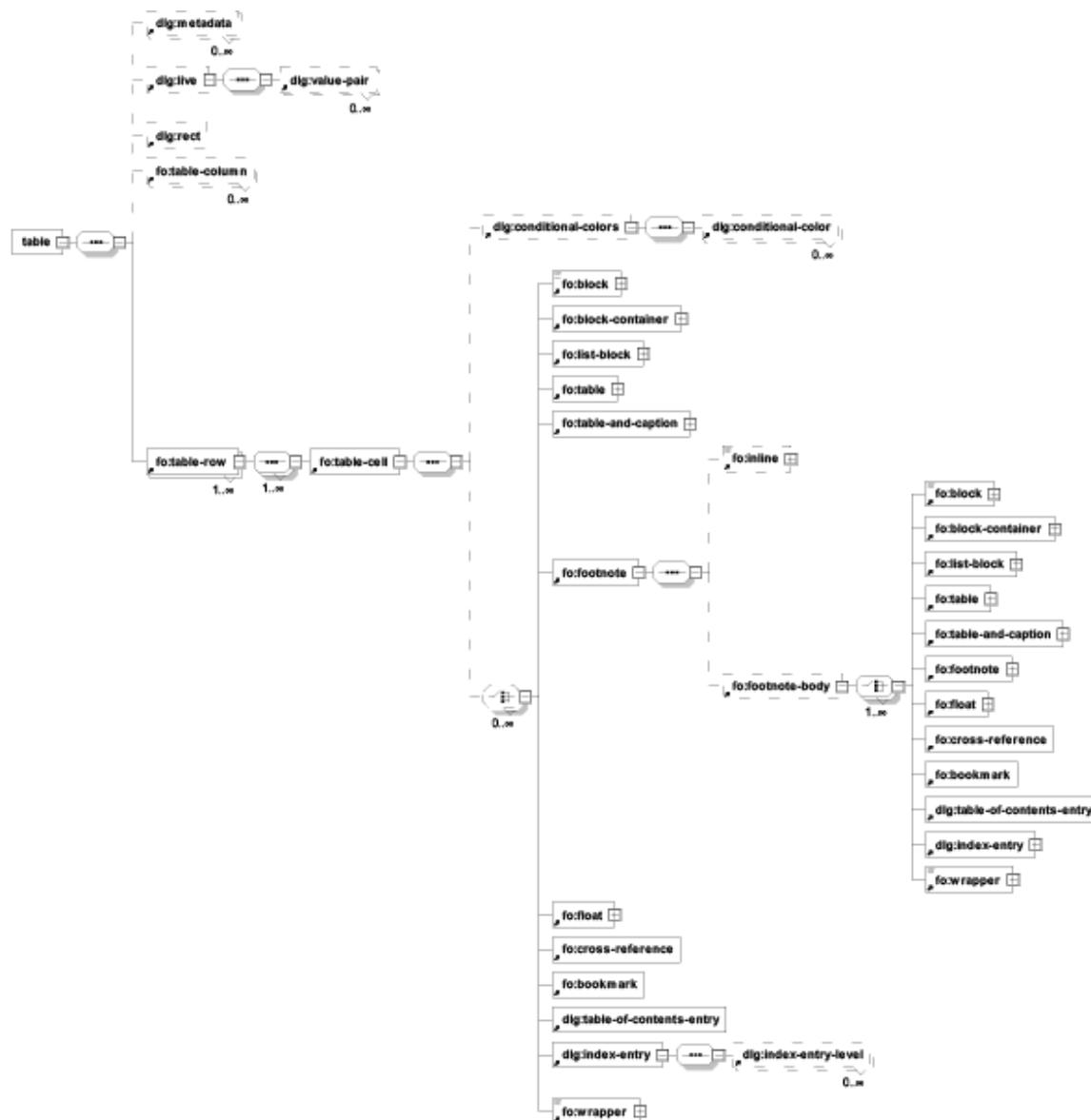
Expanded structure of `dlg:signature-field`



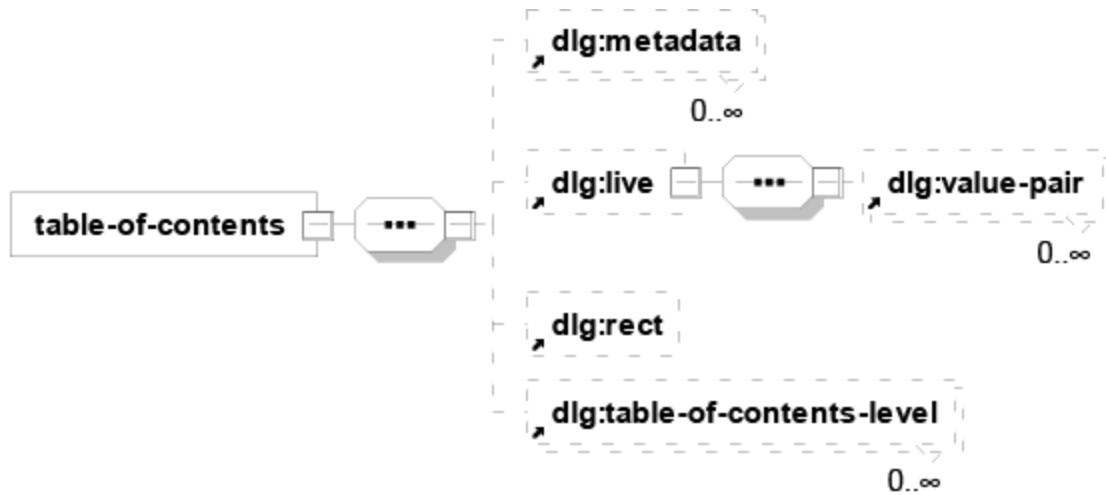
Expanded structure of `dlg:spacer`



Expanded structure of `dlg:table`



Expanded structure of `dlg:table-of-contents`



Expanded structure of `dlg:text`



Expanded structure of `dlg:text-frame`



# Chapter 3: Supported Features and Considerations for Various Uses of DXF

When you import DXF at design time, all elements in the Exstream Object and Content DTD are supported. When you use DXF in other parts of your process, only certain elements and features might be supported, and certain considerations might apply, depending on the way you use DXF in your document process. You can use this chapter to determine which elements are supported and the necessary considerations for your intended use of DXF.

For more information about different ways you can use DXF, see [“Uses of DXF” on page 9](#).

This chapter discusses the following topics:

- [“General Object Support in DXF” below](#)
- [“Features Supported for XML \(Composed\) Output and DXF Exported from Design Manager” on page 51](#)
- [“Considerations for Importing DXF at Run Time” on page 55](#)
- [“Considerations for Creating DXF with Converters” on page 57](#)
- [“Considerations for Importing or Exporting DXF with Live Documents” on page 58](#)

## 3.1 General Object Support in DXF

Most of the Library and design objects used in Exstream Design and Production are supported in DXF. However, some objects that are not part of the physical design, such as design groups, are not supported in DXF. Only the objects that are defined in the Exstream Object and Content DTD and listed in this guide are supported in DXF.

The following tables list the Library and design objects that are represented in DXF, along with the related elements for each object.

Library objects that are represented in DXF

Library object	Related element(s)
Application	<a href="#">“application (dlg:application)” on page 62</a>

Library objects that are represented in DXF , continued

Library object	Related element(s)
Barcode	<a href="#">"barcode (dlg:barcode)" on page 597</a> <a href="#">"barcode-use (dlg:barcode-use)" on page 616</a> <a href="#">"build-part (dlg:build-part)" on page 620</a>
Campaign	<a href="#">"campaign (dlg:campaign)" on page 519</a> <a href="#">"campaign-run (dlg:campaign-run)" on page 530</a> <a href="#">"formula-text (dlg:formula-text)" on page 532</a> <a href="#">"priority-formula (dlg:priority-formula)" on page 547</a>
Cascading Style Sheet	<a href="#">"declarations (fo:declarations) " on page 283</a> <a href="#">"cascading-style-sheet (dlg:cascading-style-sheet)" on page 129</a>
Component	<a href="#">"library-component (dlg:library-component)" on page 79</a> <a href="#">"library-component-ref (dlg:library-component-ref)" on page 316</a> <a href="#">"rect (dlg:rect)" on page 345</a>
Container design label	<a href="#">"declarations (fo:declarations) " on page 283</a> <a href="#">"container-label (dlg:container-label)" on page 281</a>
Document	<a href="#">"document (dlg:document)" on page 67</a> <a href="#">"document-reference (dlg:document-reference)" on page 78</a> <a href="#">"ref-many-jurisdiction (dlg:ref-many-jurisdiction)" on page 548</a>
Hyperlink anchor	<a href="#">"declarations (fo:declarations) " on page 283</a> <a href="#">"hyperlink-anchor (dlg:hyperlink-anchor)" on page 492</a> <a href="#">"internal-link (dlg:internal-link)" on page 507</a>
Inserter	<a href="#">"bin-content (dlg:bin-content)" on page 618</a> <a href="#">"inserter (dlg:inserter)" on page 627</a>
Message	<a href="#">"doc-message-use (dlg:doc-message-use)" on page 65</a> <a href="#">"message (dlg:message)" on page 533</a> <a href="#">"message-content (dlg:message-content)" on page 544</a> <a href="#">"message-use (dlg:message-use)" on page 546</a> <a href="#">"ref-many-jurisdiction (dlg:ref-many-jurisdiction)" on page 548</a> <a href="#">"teaser-message (dlg:teaser-message)" on page 550</a> <a href="#">"text-frame (dlg:text-frame)" on page 410</a>

### Library objects that are represented in DXF , continued

Library object	Related element(s)
Message template	<p><a href="#">"page (dlg:page)" on page 81</a></p> <p><a href="#">"page-reference (dlg:page-reference)" on page 92</a></p>
Metadata	<a href="#">"metadata (dlg:metadata)" on page 323</a>
Multiple-up object	<p><a href="#">"page (dlg:page)" on page 81</a></p> <p><a href="#">"page-reference (dlg:page-reference)" on page 92</a></p> <p><a href="#">"page-side (dlg:page-side)" on page 631</a></p>
Page	<p><a href="#">"doc-message-use (dlg:doc-message-use)" on page 65</a></p> <p><a href="#">"page (dlg:page)" on page 81</a></p> <p><a href="#">"page-reference (dlg:page-reference)" on page 92</a></p>
Paper type	<a href="#">"paper-type (dlg:paper-type)" on page 343</a>
Paragraph	<p><a href="#">"content-reference (dlg:content-reference)" on page 64</a></p> <p><a href="#">"message-content (dlg:message-content)" on page 544</a></p> <p><a href="#">"paragraph (dlg:paragraph)" on page 93</a></p>
Rule	<p><a href="#">"content (dlg:content)" on page 592</a></p> <p><a href="#">"declarations (fo:declarations) " on page 283</a></p> <p><a href="#">"text-rule (dlg:text-rule)" on page 593</a></p> <p><a href="#">"usage-rule (dlg:usage-rule)" on page 594</a></p>
Section	<p><a href="#">"content-reference (dlg:content-reference)" on page 64</a></p> <p><a href="#">"ref-many-jurisdiction (dlg:ref-many-jurisdiction)" on page 548</a></p> <p><a href="#">"section (dlg:section)" on page 103</a></p>
Variable	<p><a href="#">"declarations (fo:declarations) " on page 283</a></p> <p><a href="#">"default-value (dlg:default-value)" on page 552</a></p> <p><a href="#">"lookup-string (dlg:lookup-string)" on page 555</a></p> <p><a href="#">"variable (dlg:variable)" on page 557</a></p> <p><a href="#">"variables (dlg:variables)" on page 583</a></p> <p><a href="#">"variable-use (dlg:variable-use)" on page 584</a></p>

## Design objects represented in DXF

Design object	Related elements
Chart	<p><a href="#">"chart (dlg:chart)" on page 131</a></p> <p><a href="#">"chart-overlay (dlg:chart-overlay)" on page 245</a></p> <p><a href="#">"chart-series (dlg:chart-series)" on page 254</a></p> <p><a href="#">"composed-chart (dlg:composed-chart)" on page 264</a></p> <p><a href="#">"conditional-color (dlg:conditional-color)" on page 265</a></p> <p><a href="#">"conditional-colors (dlg:conditional-colors)" on page 270</a></p> <p><a href="#">"rect (dlg:rect)" on page 345</a></p>
Check box	<p><a href="#">"button (dlg:button)" on page 414</a></p> <p><a href="#">"dib (dlg:dib)" on page 423</a></p> <p><a href="#">"image-down (dlg:image-down)" on page 430</a></p> <p><a href="#">"image-hover (dlg:image-hover)" on page 434</a></p> <p><a href="#">"image-up (dlg:image-up)" on page 436</a></p> <p><a href="#">"rect (dlg:rect)" on page 345</a></p>
Container	<p><a href="#">"contained-ref (dlg:contained-ref)" on page 274</a></p> <p><a href="#">"container (dlg:container)" on page 276</a></p> <p><a href="#">"logical-cell (dlg:logical-cell)" on page 319</a></p> <p><a href="#">"spacer (dlg:spacer)" on page 359</a></p>
Custom button	<p><a href="#">"button (dlg:button)" on page 414</a></p> <p><a href="#">"dib (dlg:dib)" on page 423</a></p> <p><a href="#">"font-props (fo:font-props)" on page 427</a></p> <p><a href="#">"image-down (dlg:image-down)" on page 430</a></p> <p><a href="#">"image-hover (dlg:image-hover)" on page 434</a></p> <p><a href="#">"image-up (dlg:image-up)" on page 436</a></p> <p><a href="#">"rect (dlg:rect)" on page 345</a></p>
Flow frame	<p><a href="#">"back-flow-frames (dlg:back-flow-frames)" on page 110</a></p> <p><a href="#">"declarations (fo:declarations) " on page 283</a></p> <p><a href="#">"frame (dlg:frame)" on page 297</a></p> <p><a href="#">"front-flow-frames (dlg:front-flow-frames)" on page 299</a></p> <p><a href="#">"named-flow-frame (dlg:named-flow-frame)" on page 327</a></p> <p><a href="#">"page-frame (dlg:page-frame)" on page 334</a></p>
Footnote frame	<a href="#">"page-frame (dlg:page-frame)" on page 334</a>

## Design objects represented in DXF, continued

Design object	Related elements
Image	<p><a href="#">"binary (dlg:binary)" on page 113</a></p> <p><a href="#">"bitmap (dlg:bitmap)" on page 115</a></p> <p><a href="#">"image (dlg:image)" on page 300</a></p> <p><a href="#">"image-element (dlg:image-element)" on page 432</a></p> <p><a href="#">"rect (dlg:rect)" on page 345</a></p>
Index	<p><a href="#">"index (dlg:index)" on page 493</a></p> <p><a href="#">"index-entry (dlg:index-entry)" on page 499</a></p> <p><a href="#">"index-entry-level (dlg:index-entry-level)" on page 502</a></p> <p><a href="#">"index-level (dlg:index-level)" on page 504</a></p> <p><a href="#">"page-frame (dlg:page-frame)" on page 334</a></p> <p><a href="#">"rect (dlg:rect)" on page 345</a></p>
Message frame	<a href="#">"page-frame (dlg:page-frame)" on page 334</a>
Placeholder	<p><a href="#">"dxf-text (dlg:dxf-text)" on page 553</a></p> <p><a href="#">"page-frame (dlg:page-frame)" on page 334</a></p>
Radio button	<p><a href="#">"button (dlg:button)" on page 414</a></p> <p><a href="#">"dib (dlg:dib)" on page 423</a></p> <p><a href="#">"image-down (dlg:image-down)" on page 430</a></p> <p><a href="#">"image-hover (dlg:image-hover)" on page 434</a></p> <p><a href="#">"image-up (dlg:image-up)" on page 436</a></p> <p><a href="#">"rect (dlg:rect)" on page 345</a></p>
Shape	<p><a href="#">"points (dlg:points)" on page 344</a></p> <p><a href="#">"rect (dlg:rect)" on page 345</a></p> <p><a href="#">"shape (dlg:shape)" on page 347</a></p> <p><a href="#">"wrapper-coordinate (dlg:wrapper-coordinate)" on page 412</a></p>

## Design objects represented in DXF, continued

Design object	Related elements
Signature button	<p><a href="#">"button (dlg:button)" on page 414</a></p> <p><a href="#">"dib (dlg:dib)" on page 423</a></p> <p><a href="#">"font-props (fo:font-props)" on page 427</a></p> <p><a href="#">"image-down (dlg:image-down)" on page 430</a></p> <p><a href="#">"image-hover (dlg:image-hover)" on page 434</a></p> <p><a href="#">"image-up (dlg:image-up)" on page 436</a></p> <p><a href="#">"rect (dlg:rect)" on page 345</a></p>
Signature field	<p><a href="#">"rect (dlg:rect)" on page 345</a></p> <p><a href="#">"signature-field (dlg:signature-field)" on page 357</a></p>
Spacer	<a href="#">"spacer (dlg:spacer)" on page 359</a>
Table	<p><a href="#">"block (fo:block)" on page 119</a></p> <p><a href="#">"conditional-color (dlg:conditional-color)" on page 265</a></p> <p><a href="#">"conditional-colors (dlg:conditional-colors)" on page 270</a></p> <p><a href="#">"rect (dlg:rect)" on page 345</a></p> <p><a href="#">"table (dlg:table)" on page 361</a></p> <p><a href="#">"table-cell (fo:table-cell)" on page 368</a></p> <p><a href="#">"table-column (fo:table-column)" on page 374</a></p> <p><a href="#">"table-row (fo:table-row)" on page 376</a></p>
Table of contents	<p><a href="#">"back-toc-frames (dlg:back-toc-frames)" on page 474</a></p> <p><a href="#">"frame (dlg:frame)" on page 297</a></p> <p><a href="#">"front-toc-frames (dlg:front-toc-frames)" on page 491</a></p> <p><a href="#">"page-frame (dlg:page-frame)" on page 334</a></p> <p><a href="#">"rect (dlg:rect)" on page 345</a></p> <p><a href="#">"table-of-contents (dlg:table-of-contents)" on page 508</a></p> <p><a href="#">"table-of-contents-entry (dlg:table-of-contents-entry)" on page 512</a></p> <p><a href="#">"table-of-contents-level (dlg:table-of-contents-level)" on page 515</a></p>

## Design objects represented in DXF, continued

Design object	Related elements
Text	<p><a href="#">"basic-link (fo:basic-link)" on page 475</a></p> <p><a href="#">"block (fo:block)" on page 119</a></p> <p><a href="#">"bookmark (fo:bookmark)" on page 126</a></p> <p><a href="#">"conditional-color (dlg:conditional-color)" on page 265</a></p> <p><a href="#">"conditional-colors (dlg:conditional-colors)" on page 270</a></p> <p><a href="#">"cross-reference (fo:cross-reference)" on page 483</a></p> <p><a href="#">"declarations (fo:declarations) " on page 283</a></p> <p><a href="#">"embedded-object (dlg:embedded-object)" on page 286</a></p> <p><a href="#">"flow (fo:flow)" on page 295</a></p> <p><a href="#">"footnote (fo:footnote)" on page 485</a></p> <p><a href="#">"footnote-body (fo:footnote-body)" on page 489</a></p> <p><a href="#">"index-entry (dlg:index-entry)" on page 499</a></p> <p><a href="#">"index-entry-level (dlg:index-entry-level)" on page 502</a></p> <p><a href="#">"inline (fo:inline)" on page 313</a></p> <p><a href="#">"internal-link (dlg:internal-link)" on page 507</a></p> <p><a href="#">"points (dlg:points)" on page 344</a></p> <p><a href="#">"rect (dlg:rect)" on page 345</a></p> <p><a href="#">"table-of-contents-entry (dlg:table-of-contents-entry)" on page 512</a></p> <p><a href="#">"tab-ruler (dlg:tab-ruler)" on page 391</a></p> <p><a href="#">"tab-stop (dlg:tab-stop)" on page 399</a></p> <p><a href="#">"text (dlg:text)" on page 401</a></p> <p><a href="#">"variable-use (dlg:variable-use)" on page 584</a></p> <p><a href="#">"wrapper-coordinate (dlg:wrapper-coordinate)" on page 412</a></p>

For an overview of the elements available in DXF, see ["DXF Document Object Model" on page 21](#).

## 3.2 Features Supported for XML (Composed) Output and DXF Exported from Design Manager

The XML (composed) output driver produces fully-composed DXF output, which allows you to easily use output from Exstream Design and Production with business applications manufactured by other vendors. You can manually produce similar DXF by exporting an object from Design Manager. (However, DXF exported from Design Manager represents the design of

the selected object rather than the final output. For example, exported DXF might contain variables, but since data is substituted for those variables during production, XML (composed) output never contains variables.) The DXF files you create with the XML (composed) output driver include all the page layout, formatting, and all objects sent to the print stream (for example, images and pages), but not all DXF features are used.

For more information about exporting DXF from Design Manager, see [“Creating a Sample DXF File to Help You Understand How an Existing Design is Constructed”](#) on page 17.

For more information about using the XML (composed) output driver, see *Creating Output* in the Exstream Design and Production documentation.

### 3.2.1 Supported Elements and Attributes

XML (composed) output supports the following elements and the attributes listed for each element:

Supported element	Supported attributes	
<code>dlg:binary</code>	All attributes are supported.	
<code>fo:block</code>	border-after-color border-after-style border-after-width border-before-color border-before-style border-before-width border-left-color border-left-style border-left-width border-right-color	border-right-style border-right-width end-indent space-after space-before start-indent tab-ruler text-indent text-align text-align-last
<code>fo:declarations</code>	This element has no attributes.	
<code>dlg:document</code>	<code>xmlns:dlg</code> <code>xmlns:fo</code>	
<code>fo:flow</code>	display-align margin-bottom margin-left margin-right margin-top	

Supported element	Supported attributes
<code>dlg:image</code>	<code>can-split</code> <code>meta-props-options</code> <code>click-on</code> <code>pen</code> <code>current-angle</code> <code>pen-color</code> <code>delay-comp</code> <code>pen-style</code> <code>design-var-ndx</code> <code>pen-width</code> <code>flip-h</code> <code>picker-caption-variable</code> <code>flip-v</code> <code>picker-selections-variable</code> <code>flow-around</code> <code>picker-variable</code> <code>flow-break</code> <code>placeholder-variable</code> <code>h-auto-size</code> <code>pos-rel-to-above</code> <code>height</code> <code>reference-name</code> <code>ignore-relative</code> <code>rotation</code> <code>image-name</code> <code>selection</code> <code>image-offset-x</code> <code>shadow</code> <code>image-offset-y</code> <code>stretch-to-frame</code> <code>image-path</code> <code>upload-archive</code> <code>image-path-location</code> <code>upload-filename</code> <code>image-path-variable</code> <code>upload-value</code> <code>is-empty-placeholder</code> <code>uploaded</code> <code>language</code> <code>v-auto-size</code> <code>lock-proportions</code> <code>width</code> <code>maintain-filename</code>
<code>fo:inline</code>	<code>font-style</code> <code>font-size</code> <code>font-weight</code> <code>text-decoration</code>
<code>dlg:objects</code>	This element has no attributes.
<code>dlg:page</code>	<code>xmlns:dlg</code> <code>xmlns:fo</code>
<code>dlg:paper-type</code>	<code>color</code> <code>size</code>
<code>dlg:points</code>	This element has no attributes.

Supported element	Supported attributes
<code>dlg:rect</code>	All attributes are supported.
<code>dlg:shape</code>	<code>brush</code> <code>closed</code> <code>pen</code> <code>pen-color</code> <code>pen-style</code> <code>pen-width</code> <code>points</code> <code>shape</code>
<code>dlg:tab-ruler</code>	<code>id</code>
<code>dlg:tab-stop</code>	<code>tab-align</code> <code>tab-char</code> <code>tab-indent</code>
<code>dlg:table</code>	<code>pen</code> <code>pen-color</code> <code>pen-style</code> <code>pen-width</code> <code>shadow</code> <code>shadow-color</code>
<code>fo:table-cell</code>	<code>background-color</code> <code>border-top-color</code> <code>border-bottom-color</code> <code>border-top-style</code> <code>border-bottom-style</code> <code>border-top-width</code> <code>border-bottom-width</code> <code>border-width</code> <code>border-color</code> <code>column-number</code> <code>border-left-color</code> <code>display-align</code> <code>border-left-style</code> <code>margin-bottom</code> <code>border-left-width</code> <code>margin-left</code> <code>border-right-color</code> <code>margin-right</code> <code>border-right-style</code> <code>margin-top</code> <code>border-right-width</code> <code>number-columns-spanned</code>

Supported element	Supported attributes
<code>fo:table-column</code>	<code>border-left-color</code> <code>border-left-style</code> <code>border-left-width</code> <code>border-right-color</code> <code>border-right-style</code> <code>border-right-width</code> <code>column-number</code> <code>column-width</code>
<code>fo:table-row</code>	<code>border-bottom-color</code> <code>border-bottom-style</code> <code>border-bottom-width</code> <code>border-top-color</code> <code>border-top-style</code> <code>border-top-width</code>
<code>dlg:text</code>	<code>brush</code> <code>pen</code> <code>pen-color</code> <code>pen-style</code> <code>pen-width</code> <code>shadow</code> <code>shadow-color</code>
<code>dlg:wrapper-coordinate</code>	<code>value</code>

### 3.3 Considerations for Importing DXF at Run Time

DXF files imported at run time can be manipulated in the same ways that a design created directly in Exstream Design and Production can be. However, certain considerations apply when importing DXF at run time.

For more information about importing content into a design at run time, see *Importing External Content* in the Exstream Design and Production documentation.

### 3.3.1 General Considerations for Importing DXF at Run Time

The following general limitations apply when importing DXF at run time:

- Application-level elements, such as `dlg:message` and `dlg:campaign` cannot be imported at run time. They must be imported at design time within a `dlg:application` element.
- Rotated objects (including any design object that has any value other than 0 specified for the `current-angle` attribute) are not supported.
- In DLF output, any DXF content imported at run time is read-only.
- If you are importing DXF content that contains images at run time, then the images must be in JPEG or B&W TIFF (uncompressed or CCITT Group 4 compressed) format. Use the `import-type` attribute of the `dlg:image` element to specify the format of an included image.
- If the DXF DTD file, `ExstreamObjectAndContent.dtd`, has been renamed or moved to a different folder from the engine, you must use the `EXSTREAM_DTD_LOCATION` engine switch to specify the location, name, or both for the DTD file.

For more information about the `EXSTREAM_DTD_LOCATION` engine switch, see *Switch Reference* in the Exstream Design and Production documentation.

- Importing DXF content at run time is not supported on the z/OS platform.

### 3.3.2 Considerations for Specific Elements When Importing DXF at Run Time

All root DXF elements except for `dlg:application` and `dlg:library-component-ref` are supported, with the following limitations for each listed element:

Element	Considerations when in DXF imported at run time
<code>dlg:application</code>	This element is not supported at run time. Application-level elements must be imported at design time.
<code>dlg:binary</code>	The included image data must be in JPEG or B&W TIFF (uncompressed or CCITT Group 4 compressed) format. Use the <code>import-type</code> attribute of the parent <code>dlg:image</code> element to specify the format of the included image.
<code>dlg:document</code>	You can use a placeholder document to import a DXF file in which this element is the root node, but any application-level elements, such as <code>dlg:message</code> and <code>dlg:campaign</code> , must be imported separately at design time. You cannot use an inline placeholder variable to import the <code>dlg:document</code> at run time.

Element	Considerations when in DXF imported at run time
<a href="#">dlg:dxftext</a>	You can use an inline placeholder variable to import a DXF file in which this element is the root node, and any child elements are also imported into the application at run time. You cannot use a placeholder document to import the <a href="#">dlg:dxftext</a> at run time.
<a href="#">dlg:image</a>	Images included in DXF imported at run time must be in JPEG or B&W TIFF (uncompressed or CCITT Group 4 compressed) format. Use the <code>import-type</code> attribute to specify the format of the included image.
<a href="#">dlg:library-component</a>	This element must be a child element of another supported element for import at run time. A DXF file in which this element is the root node cannot be imported at run time.
<a href="#">dlg:library-component-ref</a>	This element is not supported because the engine does not read the file in order to find the referenced library component.
<a href="#">dlg:page</a>	You can use a placeholder document to import a DXF file in which this element is the root node. You cannot use an inline placeholder variable to import the <a href="#">dlg:page</a> at run time.
<a href="#">dlg:paragraph</a>	You can use an inline placeholder variable to import a DXF file in which this element is the root node, and any child elements are also imported into the application at run time. You cannot use a placeholder document to import the <a href="#">dlg:paragraph</a> at run time.
<a href="#">dlg:section</a>	You can use an inline placeholder variable to import a DXF file in which this element is the root node, and any child elements are also imported into the application at run time. You cannot use a placeholder document to import the <a href="#">dlg:section</a> at run time.

## 3.4 Considerations for Creating DXF with Converters

You can use the Exstream converters for PDF, InDesign, Metacode, Quark, and OGL (each available as a separate module) to translate designs in those formats into DXF for import into Exstream. The following considerations apply when creating DXF with one of the converters:

- Certain features within each design format might not be supported by the corresponding converter. Objects not supported by the converter or by the Exstream Design and Production environment are converted differently depending on the converter you are using. If necessary, you can remove or change unsupported features and objects in your original design to maximize compatibility with DXF and Exstream.
- Some converters handle specific objects in such a way that they do not appear exactly the same as the original after they have been converted and imported. You can make minor adjustments to these objects in the DXF file before import or in Designer after import so that they appear as they did before the conversion.
- One DXF file is created per legacy file, even if the legacy design has multiple pages.

For more information about converting existing designs and the features supported in each design format, see *Importing Designs* in the Exstream Design and Production documentation.

## 3.5 Considerations for Importing or Exporting DXF with Live Documents

The following general limitations apply when importing DXF into a Live document:

- Variables used to import DXF content into a Live document cannot be pre-populated during the initial engine run to create the DLF file. They can be populated only in LiveEditor.
- When you export DXF from a Live document using a formatted text variable, revision tracking and commenting are not included.
- To import DXF content into a Live document using a formatted text variable, you must use a reference file or an initialization file.
- To export DXF content from a Live document using a formatted text variable, you must use a report file or a reference file.

For more information about creating Live documents and using formatted text variables, see *Designing for LiveEditor* in the Exstream Design and Production documentation.

# Chapter 4: DXF Element Reference

You can use this chapter as a reference of all elements used in DXF. Each element section contains information about how the element is used to define content or part of a design in DXF.

Only limited information about the role of any Exstream Design and Production objects that are defined by each element is included in this chapter. For more information about how particular Library or design objects are used in an application or design, see the related guide in the table below.

In the attribute tables in the following sections, attributes are assumed to be optional, unless the descriptions specify that they are required.

This chapter is divided into the following sections according to element types:

Section	Description	Related guide
<a href="#">"Structural Elements" on page 61</a>	Contains elements that relate to the structure of a design, such as applications, documents, pages, and paragraphs	<i>Designing Customer Communications</i> in the Exstream Design and Production documentation
<a href="#">"Design Elements" on page 107</a>	Contains elements that represent content in a design, such as text, images, shapes, buttons, tables, charts, and flow elements	<i>Designing Customer Communications</i> in the Exstream Design and Production documentation
<a href="#">"Live Elements" on page 413</a>	Contains elements that represent objects used in a Live document, such as buttons and images in an image selector	<i>Designing for LiveEditor</i> in the Exstream Design and Production documentation
<a href="#">"Reference Elements" on page 473</a>	Contains elements that define reference features, such as tables of contents, indexes, cross-references, hyperlinks, and footnotes	<i>Designing Customer Communications</i> in the Exstream Design and Production documentation
<a href="#">"Marketing Elements" on page 518</a>	Contains the elements that define campaigns and messages	<i>Managing Marketing Messages</i> in the Exstream Design and Production documentation
<a href="#">"Variable Elements" on page 551</a>	Contains elements that define variables	<i>Using Data to Drive an Application</i> in the Exstream Design and Production documentation
<a href="#">"Logic Elements" on page 591</a>	Contains elements that define rules, formulas, and library functions	<i>Using Logic to Drive an Application</i> in the Exstream Design and Production documentation
<a href="#">"Multiple-Channel Delivery Elements" on page 596</a>	Contains elements that define barcodes and other multiple-channel delivery features	<i>Creating Output</i> in the Exstream Design and Production documentation

For an alphabetical listing of all elements, see the index of this guide.

This chapter also contains a section, ["Shared Attributes" on page 634](#), that lists groups of attributes that are used with multiple elements. Each DXF element that uses one of these groups of attributes contains a cross-reference to the section for the appropriate group.

Some attributes are specified by the Exstream Object and Content DTD but are not currently used in DXF. The description "not used" appears for these attributes.

## 4.1 Structural Elements

Structural elements relate to the structure of a design, including such things as applications, documents, pages, and paragraphs.

For more information about the design objects that are represented by elements in this section, see *Designing Customer Communications* in the Exstream Design and Production documentation.

This section contains the following elements:

- “[application \(dlg:application\)](#)” on the next page
- “[content-reference \(dlg:content-reference\)](#)” on page 64
- “[doc-message-use \(dlg:doc-message-use\)](#)” on page 65
- “[document \(dlg:document\)](#)” on page 67
- “[document-reference \(dlg:document-reference\)](#)” on page 78
- “[library-component \(dlg:library-component\)](#)” on page 79
- “[page \(dlg:page\)](#)” on page 81
- “[page-reference \(dlg:page-reference\)](#)” on page 92
- “[paragraph \(dlg:paragraph\)](#)” on page 93
- “[section \(dlg:section\)](#)” on page 103

## 4.1.1 application (dlg:application)

The `dlg:application` element represents an application Library object in Exstream Design and Production. Typically, the `dlg:application` element is not used to fully define an application in DXF; instead it contains multiple documents, campaigns, or library components, using the appropriate design elements.

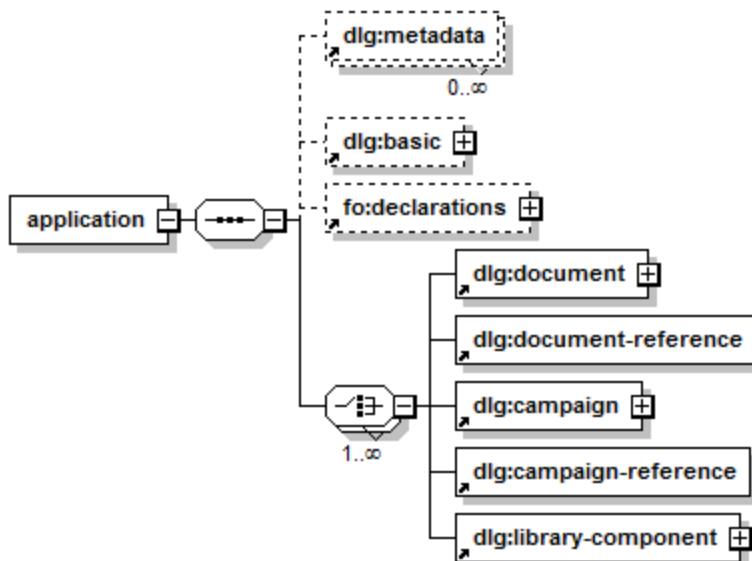
### Parents

None; `dlg:application` is always a root element.

### Attributes

Attribute	Data type	Description
<code>schemaVersion</code>	Int	The schema version for this DXF document
<code>xmlns:dlg</code>	Text	The URI for the Exstream namespace
<code>xmlns:dx</code>	Text	The URI for the DXF namespace
<code>xmlns:fo</code>	Text	The URI for the XSL-FO namespace

### Structure



## Example

```
<?xml version="1.0" encoding="Windows-1252" standalone="no"?>
<!DOCTYPE dlg:application SYSTEM "dialogue.dtd">
<dlg:application
    xmlns:dlg="http://www.exstream.com/2003/XSL/Dialogue"
    xmlns:fo="http://www.w3.org/1999/XSL/Format"
    xmlns:dx="http://www.exstream.com/2005/XSL/Dialogue">
    <dlg:basic>
        <dlg:name>App with Two Doc Refs</dlg:name>
    </dlg:basic>
    <dlg:document-reference document-ref="Document 0 TopDown-1"/>
    <dlg:document-reference document-ref="Document 0 TopDown-2"/>
</dlg:application>
```

## 4.1.2 content-reference (dlg:content-reference)

The `dlg:content-reference` element provides a reference to an existing section or paragraph object.

### Parents

`dlg:section`

### Attribute

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>section-or-paragraph-ref</code>	Ref	A reference to an existing section or paragraph object	A section or paragraph object in the Library

### Structure

`content-reference`

### 4.1.3 doc-message-use (dlg:doc-message-use)

The `dlg:doc-message-use` element contains a page (using the `dlg:page` or `dlg:page-reference` element) or message (using the `dlg:message` or `dlg:message-use` element) within a document.

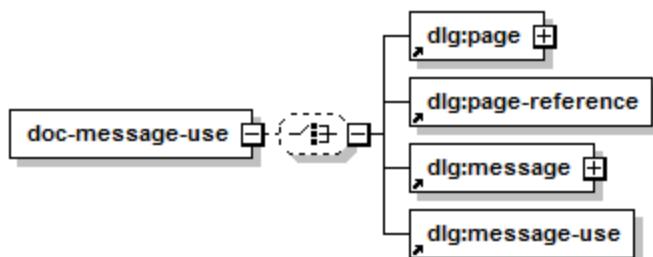
#### Parents

`dlg:document`

#### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>max-copies</code>	Int		
<code>message</code>	Ref	A reference to the page or message contained within this element	
<code>page-number</code>	Int		
<code>page-positions</code>	Enum		

#### Structure



## Example

```
<dlg:document ...>
  <dlg:basic folder="Folder|2000000000|Exstream" oid="4">
    <dlg:name>Test document</dlg:name>
  </dlg:basic>
  <dlg:doc-message-use max-copies="0" message="Page|31|Test page"
page-number="0" page-positions="as-placed">
    <dlg:page ...>
      <dlg:basic folder="Folder|2000000000|Exstream" oid="31">
        <dlg:name>Test page</dlg:name>
      </dlg:basic>
      ...
    </dlg:page>
  </dlg:doc-message-use>
</dlg:document>
```

## 4.1.4 document (dlg:document)

The `dlg:document` element represents a document Library object in Exstream Design and Production.

### Parents

`dlg:application`

Additionally, `dlg:document` can be a root element.

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>allow-doc-combination</code>	Enum	<p>Specifies whether other documents included in the output can be combined with this document</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• no—Other documents cannot be combined with this document and will start new documents in the output.</li><li>• yes-all—Other documents can be combined with this document based on the value of the <code>section-doc-combination</code> attribute for each document.</li></ul>	On the <b>Targeting</b> tab of the document properties, the <b>Allow documents to be combined with this one</b> check box
<code>back-page</code>	Ref	<p>When printing in duplex and page is specified for the <code>back-page-type</code> attribute, a reference to the page (<code>dlg:page</code>) to use to replace an empty back page</p>	On the <b>Duplex</b> tab of the document properties, the <b>Page to use on empty back pages</b> box
<code>back-page-type</code>	Enum	<p>The type of content that replaces an empty back page when printing in duplex</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• blank—Do not replace an empty back page.</li><li>• page—Replace an empty back page with the page referenced by the <code>back-page</code> attribute.</li><li>• campaign—Replace an empty back page with marketing messages.</li></ul>	On the <b>Duplex</b> tab of the document properties, the <b>What to do with empty back pages</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
can-be-used	Bool	Specifies whether the document can be used in production	
data-section-name	Text	When named-section or end-named-section is specified for the doc-selection attribute, the name of the section in a data file that determines whether this document is included	On the <b>Targeting</b> tab of the document properties, the <b>Section</b> box
doc-number-type	Enum	<p>The format of the document number in the table of contents</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>number</b>—Use 1, 2, 3, and so on.</li> <li>• <b>alpha-upper</b>—Use A, B, C, and so on.</li> <li>• <b>alpha-lower</b>—Use a, b, c, and so on.</li> <li>• <b>roman-upper</b>—Use I, II, III, and so on.</li> <li>• <b>roman-lower</b>—Use i, ii, iii, and so on.</li> <li>• <b>text-upper</b>—Use ONE, TWO, THREE, and so on.</li> <li>• <b>text-mixed</b>—Use One, Two, Three, and so on.</li> <li>• <b>text-lower</b>—Use one, two, three, and so on.</li> <li>• <b>none</b>—Do not use document numbers in the table of contents.</li> <li>• <b>doc-prefix</b>—Use the value specified for the doc-prefix attribute instead of a document number.</li> </ul>	On the <b>Composition</b> tab of the document properties, in the <b>Table of Contents</b> area, the <b>Document</b> drop-down list
doc-placeholder-var	Ref	When pass-through is specified for the document-type attribute, a reference to the variable that references the file that will be imported at run time	<p>On the <b>Basic</b> tab of the document properties, the <b>Placeholder</b> box</p> <p>For more information about placeholder documents, see <i>Importing External Content</i> in the Exstream Design and Production documentation.</p>
doc-prefix	Text	When doc-prefix is specified for the doc-number-type attribute, the text to use instead of a document number in the table of contents	On the <b>Composition</b> tab of the document properties, in the <b>Table of Contents</b> area, the <b>Prefix</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
doc-selection	Enum	<p>The method used to determine whether a document is included for a customer</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• rule—Include the document based on the rule referenced by the usage-rule attribute.</li> <li>• named-section—Include the document at the time a section with the name specified for the data-section-name attribute is read in the data file.</li> <li>• variable-and-rule—Include the document if it is included in the array variable used in the application to specify the list of documents to send to the customer, and if the rule referenced by the usage-rule attribute is true.</li> <li>• variable-no-rule—Include the document if it is included in the array variable used in the application to specify the list of documents to send to the customer, independent of rule logic.</li> <li>• end-named-section—Include the document after a section with the name specified for the data-section-name attribute has been read in the data file.</li> </ul>	<p>On the <b>Targeting</b> tab of the document properties, in the <b>Document inclusion method</b> area, the <b>Method</b> drop-down list</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>Note:</b> XML node settings are not supported in DXF files.</p> <p>The <b>XML Node</b> option on the <b>Method</b> drop down list does not have a corresponding attribute in the DXF elements.</p> </div>
document-type	Enum	<p>Specifies whether the document is a normally composed document or the document is a placeholder document for importing a file at run time</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• normal—The document is a normally composed document, and enforcement of duplex printing is specified for the duplex-control attribute.</li> <li>• pass-through—The document is a placeholder for a file imported at run time.</li> </ul> <p>The following value is not supported:</p> <ul style="list-style-type: none"> <li>• force-duplex</li> </ul>	<p>On the <b>Basic</b> tab of the document properties, the <b>Document type</b> drop-down list</p> <p>For more information about placeholder documents, see <i>Importing External Content</i> in the Exstream Design and Production documentation.</p>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
duplex-control	Enum	<p>Specifies whether, when using a duplex printer, duplex printing is enforced or is determined by settings for individual pages</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—Use the duplex property for each page to determine whether the page is printed as simplex or duplex.</li> <li>• <b>duplex</b>—Produce the document as duplex output, regardless of page properties.</li> </ul>	On the <b>Duplex</b> tab of the document properties, the <b>Duplex method when printing on a mixed-plex output</b> drop-down list
duplex-mode	Enum	<p>Specifies whether the document must start on the front side of a new sheet of paper and whether a new document is allowed to print on the back side of the last sheet of paper in the current document</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>no-no</b>—Allow this document to start on the back of a sheet (if allowed by the previous document), and do not allow the next document to start on the back of this sheet.</li> <li>• <b>yes-no</b>—Force this document to start on the front of a sheet, and do not allow the next document to start on the back of this sheet.</li> <li>• <b>no-yes</b>—Allow this document to start on the back of a sheet (if allowed by the previous document), and allow the next document to start on the back of this sheet.</li> <li>• <b>yes-yes</b>—Force this document to start on the front of a sheet, and allow the next document to start on the back of this sheet.</li> </ul>	On the <b>Duplex</b> tab of the document properties, the check boxes for <b>This document must start on the front of a sheet</b> and <b>The document after this one can start on the back of this one</b>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
frame-fill-method	Enum	<p>The frame fill and graphic floating options for the document</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>sequential</b>—Fill frames in the order in which they are placed in the document, and force each graphic message to remain in the first frame in which it is placed.</li> <li>• <b>sequential-float</b>—Fill frames in the order in which they are placed in the document, and allow each graphic message to move to a subsequent frame when a text message causes it to move.</li> <li>• <b>article</b>—Allow previously composed frames to accept overflow from text messages placed later in the document, and force each graphic message to remain in the first frame in which it is placed.</li> <li>• <b>article-float</b>—Allow previously composed frames to accept overflow from text messages placed later in the document, and allow each graphic message to move to a subsequent frame when a text message causes it to move.</li> </ul>	<p>On the <b>Content</b> tab of the <b>System Configuration</b> dialog box (accessed from the <b>Basic</b> tab of the <b>System Settings</b>), in the <b>Documents</b> area, the <b>Frame fill</b> and <b>Graphic float</b> drop-down lists</p> <p>For more information about system configuration, see <i>System Administration</i> in the Exstream Design and Production documentation.</p>
id-variable	Ref	A reference to the variable that provides bookmark names for the document	On the <b>Basic</b> tab of the document properties, the <b>ID for bookmark</b> box
jurisdiction-use	Enum	<p>Specifies how the jurisdictions referenced by <code>dlg:ref-many-jurisdiction</code> child elements apply to effectivity dates</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>all</b>—Use the same effectivity dates for all jurisdictions and ignore the included jurisdictions.</li> <li>• <b>specified</b>—Apply the effectivity dates specified individually for each included jurisdiction.</li> <li>• <b>except</b>—Do not apply effectivity dates for the included jurisdictions.</li> </ul>	On the <b>Regulatory</b> tab of the document properties, the <b>Enable jurisdictional effectivity</b> drop-down list

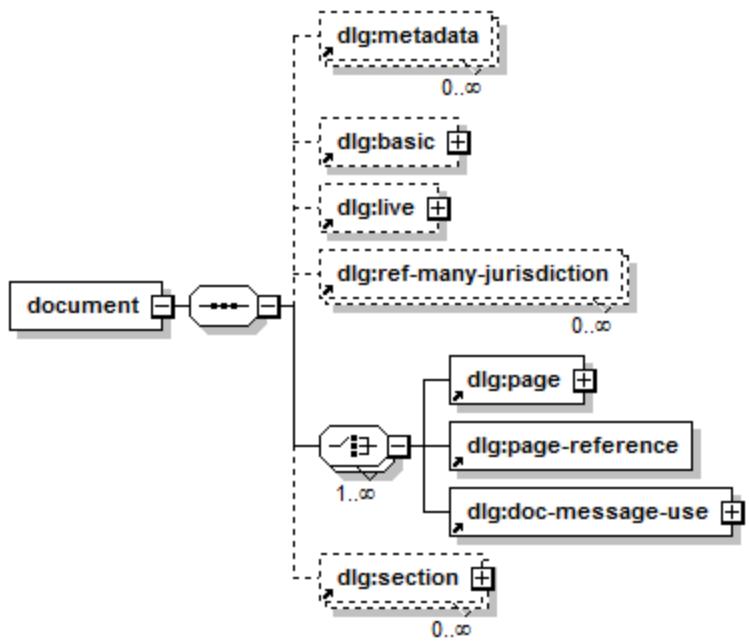
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
max-marketing-pages	Int	The number of extra pages the engine can add to a document for campaigns and messages	<p>On the <b>Composition</b> tab of the document properties, the <b>Maximum message-driven pages</b> box</p> <p>For more information about adding pages to accommodate campaigns, see <i>Managing Marketing Messages</i> in the Exstream Design and Production documentation.</p>
msg-select-variable	Ref	When <b>variable-and-rule</b> or <b>variable-no-rule</b> is specified for the <b>msg-selection</b> attribute, a reference to the string array variable that contains the names of document messages for inclusion in customer output	<p>On the <b>Composition</b> tab of the document properties, in the <b>Message inclusion method</b> area, the <b>Variable containing list of messages</b> box</p> <p>For more information about specifying how document messages are selected for inclusion in customer output, see <i>Managing Marketing Messages</i> in the Exstream Design and Production documentation.</p>
msg-selection	Enum	<p>The method used to select messages for inclusion in a customer document</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>rule</b>—Use the individual rules applied to messages.</li> <li>• <b>variable-and-rule</b>—Use a variable that contains a list of the messages that should be included for each customer, and then use rules.</li> <li>• <b>variable-no-rule</b>—Use a variable that contains a list of the messages that should be included for each customer and ignore any rules.</li> </ul>	<p>On the <b>Composition</b> tab of the document properties, in the <b>Message inclusion method</b> area, the <b>Method</b> drop-down list</p> <p>For more information about specifying how document messages are selected for inclusion in customer output, see <i>Managing Marketing Messages</i> in the Exstream Design and Production documentation.</p>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
page-number-type	Enum	<p>The format of the page numbers in the table of contents</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>number</b>—Use 1, 2, 3, and so on.</li> <li>• <b>alpha-upper</b>—Use A, B, C, and so on.</li> <li>• <b>alpha-lower</b>—Use a, b, c, and so on.</li> <li>• <b>roman-upper</b>—Use I, II, III, and so on.</li> <li>• <b>roman-lower</b>—Use i, ii, iii, and so on.</li> <li>• <b>text-upper</b>—Use ONE, TWO, THREE, and so on.</li> <li>• <b>text-mixed</b>—Use One, Two, Three, and so on.</li> <li>• <b>text-lower</b>—Use one, two, three, and so on.</li> </ul>	On the <b>Composition</b> tab of the document properties, in the <b>Table of Contents</b> area, the <b>Page</b> drop-down list
paragraph-select-variable	Ref	When <b>variable-section-rule</b> , <b>variable-section-no-rule</b> , <b>variable-paragraph-rule</b> , or <b>variable-paragraph-no-rule</b> is specified for the <b>paragraph-selection</b> attribute, a reference to the string array variable that contains the names of paragraphs or sections for inclusion in customer output	On the <b>TargetingComposition</b> tab of the document properties, in the <b>Paragraph inclusion method</b> area, the <b>Variable containing list of sections/paragraphs</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
paragraph-selection	Enum	<p>The method used to select sections or paragraphs for inclusion in a customer document</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>rule</b>—Use the individual rules applied to sections and paragraphs.</li> <li>• <b>variable-section-rule</b>—Use a variable that contains a list of the sections that should be included for each customer, and then use rules.</li> <li>• <b>variable-section-no-rule</b>—Use a variable that contains a list of the sections that should be included for each customer and ignore any rules.</li> <li>• <b>variable-paragraph-rule</b>—Use a variable that contains a list of the paragraphs that should be included for each customer, and then use rules.</li> <li>• <b>variable-paragraph-no-rule</b>—Use a variable that contains a list of the paragraphs that should be included for each customer and ignore any rules.</li> </ul>	On the <b>Composition</b> tab of the document properties, in the <b>Paragraph inclusion method</b> area, the <b>Method</b> drop-down list
queue-rule	Bool		
restart-doc-count	Bool	Specifies whether this document causes document numbering to restart at 1	On the <b>Composition</b> tab of the document properties, the <b>Restart document (chapter) count</b> check box
restart-page-count	Bool	Specifies whether this document causes page numbering to restart at 1	On the <b>Composition</b> tab of the document properties, the <b>Restart page numbers</b> check box
rule-run-time	Enum	<p>Specifies when all the necessary information will be available and the rule can be executed</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>normal</b>—Execute the rule when the engine processes the document.</li> <li>• <b>at-end</b>—Execute the rule after the engine completes all other processing.</li> </ul>	On the <b>Targeting</b> tab of the document properties, the <b>Rule run time</b> drop-down list
schemaVersion	Int	The schema version for this DXF document	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
section-doc-combination	Enum	<p>When named-section or end-named-section is specified for the doc-selection attribute, specifies whether and under what conditions this document is combined with the previous document</p> <p>For section driven content, one of the following:</p> <ul style="list-style-type: none"> <li>start-new-document—Always start a new document; do not combine this document with the previous document.</li> <li>start-new-document-first-time—Start a new document only the first time that the engine calls the section, and do not add subsection content to previous documents after sections have been processed.</li> <li>combine—Always combine this document with the previous document, and do not add subsection content to previous documents after sections have been processed.</li> <li>start-new-document-first-time-sub—Start a new document only the first time that the engine calls the section, and add subsection content to previous documents after sections have been processed.</li> <li>combine-sub—Always combine this document with the previous document, and add subsection content to previous documents after sections have been processed.</li> </ul>	<p>On the <b>Targeting</b> tab of the document properties, the <b>Section/Node document combination</b> drop-down list</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>Note:</b> XML node settings are not supported in DXF files.</p> <p>The <b>Section/Node document combination</b> drop-down list is not supported in DXF output if the setting is used with documents that are driven using XML nodes.</p> </div>
separator-type	Enum	<p>The separator to use between the document number and page numbers in the table of contents</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>dash—Use a hyphen character ( - ).</li> <li>dot—Use a period character ( . ).</li> <li>space—Use the a space character.</li> </ul>	<p>On the <b>Composition</b> tab of the document properties, in the <b>Table of Contents</b> area, the <b>Separator</b> drop-down list</p>
usage-rule	Ref	When rule or variable-and-rule is specified for the doc-selection attribute, a reference to the rule that determines the inclusion of the document for a customer	On the <b>Targeting</b> tab of the document properties, the <b>Rule</b> box
xmlns:dlg	Text	The URI for the Exstream namespace	
xmlns:dxf	Text	The URI for the DXF namespace	
xmlns:fo	Text	The URI for the XSL-FO namespace	

## Structure



## Example

```
<dlg:document
allow-doc-combination="no"
back-page="Page|0|"
back-page-type="campaign"
can-be-used="true"
data-section-name=""
doc-number-type="none"
doc-placeholder-var="Variable|0|"
doc-prefix="" doc-selection="rule"
document-type="normal"
duplex-control="none"
duplex-mode="yes-no"
frame-fill-method="sequential"
id-variable="Variable|0|"
jurisdiction-use="all"
max-marketing-pages="9999"
msg-select-variable="Variable|0|"
msg-selection="rule"
page-number-type="number"
paragraph-select-variable="Variable|0|"
paragraph-selection="variable-section-rule"
queue-rule="false" restart-doc-count="false"
restart-page-count="false"
rule-run-time="normal"
section-doc-combination="start-new-document"
separator-type="dash"
usage-rule="UsageRule|0|">
...
</dlg:document>
```

## 4.1.5 document-reference (dlg:document-reference)

The `dlg:document-reference` element provides a reference to a document object.

### Parents

`dlg:application`

### Attribute

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>document-ref</code>	Ref	A reference to an existing document object	A document object in the Library

### Structure

`document-reference`

## 4.1.6 library-component (dlg:library-component)

The `dlg:library-component` element represents a Library component in Exstream Design and Production.

### Parents

`dlg:application`

Additionally, `dlg:library-component` can be a root element.

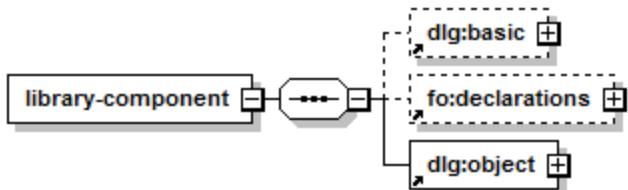
**Note:** You cannot import a DXF file that uses `dlg:library-component` as a root element at run time. A library component used by a separate application can be imported only at design time.

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>locked-position</code>	Bool	Specifies whether users are prevented from moving the component from the location specified by the <code>locked-position-x</code> and <code>locked-position-y</code> attributes	On the <b>Basic</b> tab of the component properties, the <b>Position is locked</b> check box
<code>locked-position-x</code>	Int	When <code>true</code> is specified for the <code>locked-position</code> attribute, the horizontal position (x-coordinate) of the component in the design area	On the <b>Basic</b> tab of the component properties, the <b>Horizontal position</b> box
<code>locked-position-y</code>	Int	When <code>true</code> is specified for the <code>locked-position</code> attribute, the vertical position (y-coordinate) of the component in the design area	On the <b>Basic</b> tab of the component properties, the <b>Vertical position</b> box
<code>locked-rotation</code>	Bool	Specifies whether users are prevented from changing the rotation of the component	On the <b>Basic</b> tab of the component properties, the <b>Rotation is locked</b> check box
<code>locked-rule</code>	Bool	Specifies whether users are prevented from changing the rule logic specified for the <code>usage-rule</code> attribute for a specific instance of the component	On the <b>Basic</b> tab of the component properties, the <b>Rule is locked</b> check box
<code>locked-size</code>	Bool	Specifies whether users are prevented from changing the size of the component	On the <b>Basic</b> tab of the component properties, the <b>Size is locked</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
page-count	Int	Specifies the number of pages in the component. Use 0 to specify that a component does not have multiple pages.	
schemaVersion	Int	The schema version for this DXF document	
stylesheet	Ref	A reference to the stylesheet used for the component	
usage-rule	Ref	A reference to the rule that determines the inclusion of the component for a customer	On the <b>Basic</b> tab of the component properties, the <b>Rule</b> box
xmlns:dlg	Text	The URI for the Exstream namespace	
xmlns:dxf	Text	The URI for the DXF namespace	
xmlns:fo	Text	The URI for the XSL-FO namespace	

## Structure



## 4.1.7 page (dlg:page)

The `dlg:page` element is used to represent a variety of different objects in Exstream Design and Production, including a page object, message template object, or multiple-up object. The `design-type` attribute specifies the type of object that is represented.

### Parents

`dlg:doc-message-use`  
`dlg:document`

Additionally, `dlg:page` can be a root element.

### Attributes

The attributes that apply for each represented object depend on the value of the `design-type` attribute:

Attribute	Data type	Description
<code>design-type</code>	Enum	<p>The type of object that the <code>page</code> element specifies. If this attribute is omitted, the element is assumed to specify a page object.</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <code>page</code>—The element specifies a page object.</li><li>• <code>graphic</code>—The element specifies a message template that will be used for graphic messages.</li><li>• <code>textmessage</code>—The element specifies a message template that will be used for text messages.</li><li>• <code>insert</code>—The element specifies a message template that will be used for insert messages.</li><li>• <code>mup</code>—The element specifies a multiple-up object.</li></ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"><li>• <code>browse</code></li><li>• <code>form</code></li></ul>

The following sections list the other attributes that apply for each value of the `design-type` attribute:

- “[Attributes That Apply When page Is Specified for the design-type Attribute](#)” on the next page
- “[Attributes That Apply When template Is Specified for the design-type Attribute](#)” on page 86

- “[Attributes That Apply When graphic , textmessage , or insert Is Specified for the design-type Attribute](#)” on page 88
- “[Attributes That Apply When mup Is Specified for the design-type Attribute](#)” on page 88
- “[Unused Attributes](#)” on page 89

## Attributes That Apply When page Is Specified for the design-type Attribute

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
allow-doc-checksum	Bool	Specifies whether this page is included in the checksum that determines whether the document has changed	On the <b>Basic</b> tab of the page properties, the <b>Include in change-control checksum</b> check box
flow-to-page	Ref	When <code>specific</code> is specified for the <code>flow-type</code> attribute, a reference to the page that will contain overflow content	On the <b>Flow</b> tab of the page properties, the <b>Page</b> box
flow-type	Enum	Specifies how to handle overflow content from the page  One of the following: <ul style="list-style-type: none"><li>• <code>none</code>—Discard overflow content from the page and continue processing without a warning message.</li><li>• <code>repeat</code>—Duplicate this page to contain the overflow content.</li><li>• <code>specific</code>—Use the page specified for the <code>flow-to-page</code> attribute to contain the overflow content.</li><li>• <code>warning</code>—Discard overflow content and continue processing with a warning message.</li><li>• <code>error</code>—Discard overflow content and stop processing with an error message.</li></ul>	On the <b>Flow</b> tab of the page properties, the <b>Destination of overflow from this page</b> list
meta-props-alternate-text	Text	The text that an accessibility tool reads to represent the object when <code>read-alternate-text</code> is specified for the <code>meta-props-options</code> attribute	On the <b>Accessibility</b> tab of the page properties, the <b>Alternate text</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-language	Enum	<p>The language used when the meta-props-options attribute is set to read-alternate-text or read-object-text. If this attribute is omitted and no other parent object has a language, the default customer language is used. If this attribute is omitted and a parent object has a language, the language specified on the parent object is inherited.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• default—The default customer language</li> <li>• amharic—Amharic</li> <li>• arabic—Arabic</li> <li>• armenian—Armenian</li> <li>• bengali—Bengali</li> <li>• catalan—Catalan</li> <li>• cebuano—Cebuano</li> <li>• chinese—Chinese (PRC)</li> <li>• chinese-tw—Chinese (Taiwan)</li> <li>• chinese-hk—Chinese (Hong Kong SAR)</li> <li>• chinese-sg—Chinese (Singapore)</li> <li>• czech—Czech</li> <li>• danish—Danish</li> <li>• dutch—Dutch</li> <li>• english-us—English (American)</li> <li>• english-au—English (Australian)</li> <li>• english-uk—English (British)</li> <li>• farsi—Farsi (Persian)</li> <li>• finnish—Finnish</li> <li>• french—French</li> <li>• french-creole—French Creole</li> <li>• french-ca—French (Canadian)</li> <li>• german—German</li> <li>• gujarati—Gujarati</li> <li>• hawaiian—Hawaiian</li> <li>• hindi—Hindi</li> <li>• hmong—Hmong</li> </ul>	On the <b>Accessibility</b> tab of the page properties, the <b>Accessibility language</b> list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• hungarian—Hungarian</li> <li>• igbo—Igbo</li> <li>• ilokano—Ilokano</li> <li>• italian—Italian</li> <li>• japanese—Japanese</li> <li>• khmer—Khmer</li> <li>• korean—Korean</li> <li>• kru—Kru</li> <li>• lao—Lao</li> <li>• marshallese—Marshallese</li> <li>• navajo—Navajo</li> <li>• nepali—Nepali</li> <li>• norway—Norwegian</li> <li>• norway-bokmal—Norwegian (Bokmål)</li> <li>• newnorway—Norwegian (Nynorsk)</li> <li>• oromo—Oromo</li> <li>• pohnpeian—Pohnpeian</li> <li>• polish—Polish</li> <li>• portug—Portuguese</li> <li>• brazil—Portuguese (Brazilian)</li> <li>• punjabi—Punjabi</li> <li>• romanian—Romanian</li> <li>• russian—Russian</li> <li>• samoan—Samoan</li> <li>• spanish—Spanish</li> <li>• swedish—Swedish</li> <li>• tagalog—Tagalog</li> <li>• thai—Thai</li> <li>• tongan—Tongan</li> <li>• turkish—Turkish</li> <li>• ukranian—Ukrainian</li> <li>• urdu—Urdu</li> <li>• vietnamese—Vietnamese</li> <li>• yoruba—Yoruba</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-options	Enum	<p>Specifies whether object text or alternate text is read by accessibility tools</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>do-not-read—Do not read object text or alternate text for this object or for any of its child objects.</li> <li>read-alternate-text—Read the alternate text specified for the meta-props-alternate-text attribute.</li> <li>read-object-text—Read the text that is associated with a textual object.</li> </ul>	On the <b>Accessibility</b> tab of the page properties, the <b>Read options</b> list
meta-props-order	Int	The numerical order in which you want the text to be read by accessibility tools when the meta-props-option attribute is set to <b>read-alternate-text</b> or <b>read-object-text</b>	On the <b>Accessibility</b> tab of the page properties, the <b>Read order</b> box
page-can-overflow	Bool		
page-duplex	Bool	Specifies whether the page is duplex and will have a design for each side of the sheet	On the <b>Basic</b> tab of the page properties, the <b>Duplex</b> check box
page-in-sections	Bool		
page-orientation	Enum	<p>The rotation of the page in relation to the normal output page orientation of the printer</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>portrait—The page is rotated zero degrees.</li> <li>landscape—The page is rotated 90 degrees.</li> <li>portrait-reversed—The page is rotated 180 degrees.</li> <li>landscape-reversed—The page is rotated 270 degrees.</li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>any</li> <li>none</li> </ul>	On the <b>Basic</b> tab of the page properties, the <b>Orientation</b> list
paper-type	Ref	A reference to an existing paper type used for the page. Alternatively, you can specify a new paper type using the <a href="#">dlg:paper-type</a> child element.	On the <b>Basic</b> tab of the page properties, the <b>Paper type</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
schemaVersion	Int	The schema version for this DXF document	
usage-rule	Ref	A reference to the rule that determines the inclusion of the page for a customer	On the <b>Targeting</b> tab of the page properties, the <b>Rule</b> box
version	Int	The version number of the page object	In the <b>Administration</b> dialog box for the page, the <b>Version</b> box, or, in the history view for the page, the <b>Version</b> column
xmlns:dlg	Text	The URI for the Exstream namespace	
xmlns:dxf	Text	The URI for the DXF namespace	
xmlns:fo	Text	The URI for the XSL-FO namespace	

### Attributes That Apply When template Is Specified for the design-type Attribute

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
allow-doc-checksum	Bool	Specifies whether pages based on this template are included in the checksum that determines whether the document has changed	
page-duplex	Bool	Specifies whether the template is duplex and will have a design for each side of the sheet	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
page-orientation	Enum	<p>The rotation of pages based on this template in relation to the normal output page orientation of the printer</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>portrait</b>—The page is rotated zero degrees.</li> <li>• <b>landscape</b>—The page is rotated 90 degrees.</li> <li>• <b>portrait-reversed</b>—The page is rotated 180 degrees.</li> <li>• <b>landscape-reversed</b>—The page is rotated 270 degrees.</li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• <b>none</b></li> <li>• <b>any</b></li> </ul>	
paper-type	Ref	A reference to an existing paper type used for pages based on this template. Alternatively, you can specify a new paper type using the <a href="#">dlg:paper-type</a> child element.	On the <b>Basic</b> tab of the page properties, the <b>Paper type</b> box
schemaVersion	Int	The schema version for this DXF document	
stylesheet		A reference to the default style sheet ( <a href="#">stylesheet</a> ( <a href="#">dlg:stylesheet</a> )) to use for the page template	On the <b>Basic</b> tab of the page template properties, the <b>Default style sheet</b> box
version	Int	The version number of the page template object	In the <b>Administration</b> dialog box for the page template, the <b>Version</b> box, or, in the history view for the page template, the <b>Version</b> column
xmlns:dlg	Text	The URI for the Exstream namespace	
xmlns:dxf	Text	The URI for the DXF namespace	
xmlns:fo	Text	The URI for the XSL-FO namespace	

## Attributes That Apply When `graphic`, `textmessage`, or `insert` Is Specified for the `design-type` Attribute

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>back-color</code>	Color	The background color of the back of the message template	On the <b>Basic</b> tab of the message template properties, the <b>Back</b> color well
<code>can-grow</code>	Bool	Specifies whether the height of the message template can be increased in Designer or by the engine based on the message content	On the <b>Basic</b> tab of the message template properties, the <b>Growth</b> list
<code>design-height</code>	Int	Specifies the height of the message template	On the <b>Basic</b> tab of the message template properties, the <b>Height</b> box
<code>front-color</code>	Color	The background color of the front of the message template	On the <b>Basic</b> tab of the message template properties, the <b>Front</b> color well
<code>schemaVersion</code>	Int	The schema version for this DXF document	
<code>stylesheet</code>		A reference to the default style sheet ( <code>stylesheet (dlg:stylesheet)</code> ) to use for the message template	On the <b>Basic</b> tab of the message template properties, the <b>Default style sheet</b> box
<code>version</code>	Int	The version number of the message template object	In the <b>Administration</b> dialog box for the message template, the <b>Version</b> box, or, in the history view for the message template, the <b>Version</b> column
<code>xmlns:dlg</code>	Text	The URI for the Exstream namespace	
<code>xmlns:dxf</code>	Text	The URI for the DXF namespace	
<code>xmlns:fo</code>	Text	The URI for the XSL-FO namespace	

## Attributes That Apply When `mup` Is Specified for the `design-type` Attribute

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>page-duplex</code>	Bool	Specifies whether the multiple-up page is duplex and will have pages on each side of the sheet	In the multiple-up properties, the <b>Duplex</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
page-orientation	Enum	<p>The rotation of the multiple-up sheet in relation to the normal output page orientation of the printer</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>portrait</b>—The page is rotated zero degrees.</li> <li>• <b>landscape</b>—The page is rotated 90 degrees.</li> <li>• <b>portrait-reversed</b>—The page is rotated 180 degrees.</li> <li>• <b>landscape-reversed</b>—The page is rotated 270 degrees.</li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• <b>none</b></li> <li>• <b>any</b></li> </ul>	In the multiple-up properties, the <b>Orientation</b> list
paper-type	Ref	A reference to an existing paper type used for the multiple-up sheet. Alternatively, you can specify a new paper type using the <a href="#">dlg:paper-type</a> child element.	In the multiple-up properties, the <b>Paper type</b> box
schemaVersion	Int	The schema version for this DXF document	
version	Int	The version number of the multiple-up object	In the <b>Administration</b> dialog box for the multiple-up object, the <b>Version</b> box, or, in the history view for the multiple-up object, the <b>Version</b> column
xmlns:dlg	Text	The URI for the Exstream namespace	
xmlns:dxf	Text	The URI for the DXF namespace	
xmlns:fo	Text	The URI for the XSL-FO namespace	

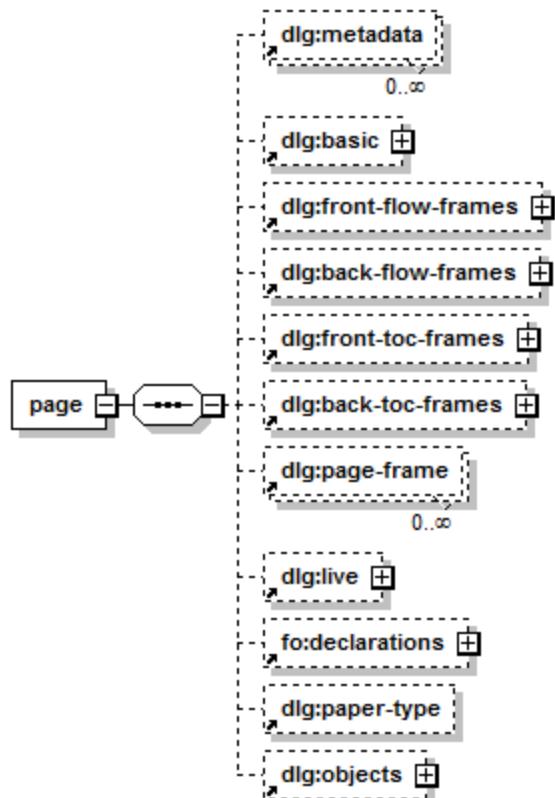
## Unused Attributes

**Note:** Some of the following attributes are included in exported DXF and XML (composed) output, but fixed values are always specified.

Attribute	Data type
has-footnote	Bool

Attribute	Data type
has-index	Bool
has-toc	Bool
margin-bottom	Int
margin-left	Int
margin-right	Int
margin-top	Int
meta-order	Int
orientation	Enum
scale	Int
show-background	Bool
stylesheet-changed	Bool

## Structure



## Example

```
<dlg:page
allow-doc-checksum="false"
flow-to-page="Page|0|"
flow-type="none"
page-duplex="false"
page-in-sections="true"
page-orientation="portrait"
paper-type="PaperType|4|Blank 8.500 x 25.670">
...
</dlg:page>
```

## 4.1.8 page-reference (dlg:page-reference)

The dlg:page-reference element provides a reference to an existing page, page template, message template, or multiple-up object.

### Parents

[dlg:doc-message-use](#)

[dlg:document](#)

### Attribute

Attribute	Data type	Description	Corresponding Exstream Design and ProductionSetting
page-ref	Ref	A reference to an existing page, page template, message template, or multiple-up object	A section or page, page template, message template, or multiple-up object in the Library

### Structure

page-reference

dlg:page-reference has no children.

## 4.1.9 paragraph (dlg:paragraph)

The `dlg:paragraph` element specifies a paragraph object in Exstream Design and Production.

### Parents

`dlg:section`

Additionally, `dlg:paragraph` can be a root element.

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>aggreg-data-enable</code>	Enum	Specifies whether the paragraph can be merged during data aggregation  One of the following: <ul style="list-style-type: none"><li>no—The paragraph cannot be merged during data aggregation.</li><li>yes—The paragraph can be merged during data aggregation.</li></ul>	On the <b>Basic</b> tab of the properties of the containing section, the <b>Enable data aggregation</b> check box
<code>allow-doc-checksum</code>	Bool	Specifies whether the paragraph is included in the checksum that determines whether the document has changed	On the <b>Basic</b> tab of the paragraph properties, the <b>Include in change-control checksum</b> check box
<code>bottom-flow-margin</code>	Int	The minimum space, in logical units, required between the current paragraph and the next paragraph in the frame before the next paragraph is forced to the next flow frame	On the <b>Basic</b> tab of the paragraph properties, the <b>Flow</b> box
<code>can-split-text</code>	Bool	Specifies whether the paragraph can split across multiple frames or must remain together in a single frame	On the <b>Basic</b> tab of the paragraph properties, the <b>Can split across frames</b> check box
<code>can-be-used</code>	Bool	Specifies whether the paragraph can be used in production	
<code>default-as-background</code>	Bool	Specifies whether objects common to all languages are placed on the default language layer	On the <b>Languages</b> tab of the properties of the containing page, the <b>Use default language as background for other languages</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
design-resolution	Int	The resolution at which you want to design the page that contains the paragraph	On the <b>Basic</b> tab of the properties of the containing page, the <b>Design resolution</b> box
flow-to-page	Ref	A reference to the page that will contain overflow content when <b>specific</b> is specified for the <b>flow-type</b> attribute	On the <b>Flow</b> tab of the properties of the containing page, the <b>Page</b> box
flow-type	Enum	<p>Specifies how to handle overflow content from the paragraph</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—Discard overflow content from the page and continue processing without a warning message.</li> <li>• <b>repeat</b>—Duplicate the page that contains the paragraph to contain the overflow content.</li> <li>• <b>specific</b>—Use the page specified for the <b>flow-to-page</b> attribute to contain the overflow content.</li> <li>• <b>warning</b>—Discard overflow content but continue processing with a warning message.</li> <li>• <b>error</b>—Discard overflow content and stop processing with an error message.</li> </ul>	On the <b>Flow</b> tab of the properties of the containing page, the <b>Destination of overflow from this page</b> list
height	Int	Not used	
internet	Bool	Deprecated. Previously specified whether the paragraph was a clickable link in electronic output. Now use the <b>link-type</b> attribute.	
jurisdiction-use	Enum	<p>Specifies how jurisdictional effectivity applies to the paragraph</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>all</b>—Use the effectivity dates defined for the object for all jurisdictions.</li> <li>• <b>specified</b>—Include the paragraph for the jurisdictional effectivity dates specified by the <a href="#">dlg:ref-many-jurisdiction</a> element.</li> <li>• <b>except</b>—Exclude the paragraph for the jurisdictional effectivity dates specified by the <a href="#">dlg:ref-many-jurisdiction</a> element.</li> </ul>	On the <b>Regulatory</b> tab of the paragraph properties, the <b>Enable jurisdictional effectivity</b> list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
keep-with-next	Bool	Specifies whether the paragraph is forced to appear in the same frame as the next paragraph	On the <b>Basic</b> tab of the paragraph properties, the <b>Keep with next paragraph</b> check box
keep-with-previous	Bool	Specifies whether the paragraph is forced to appear in the same frame as the previous paragraph	On the <b>Basic</b> tab of the paragraph properties, the <b>Keep with previous paragraph</b> check box
link-type	Enum	<p>Specifies whether the object links to a URL and whether the URL is static or provided by a variable</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—The object does not link to a URL.</li> <li>• <b>static</b>—The object links to the URL specified for the <code>url</code> attribute.</li> <li>• <b>dynamic</b>—The object links to the URL provided by the variable referenced by the <code>variable-hyperlink</code> attribute.</li> </ul>	On the <b>Basic</b> tab of the paragraph properties, the <b>Link to URL (when included in electronic output)</b> list
message-template	Ref	Not used	
message-type	Ref	Not used	
meta-order	Int	Not used	
meta-props-alternate-text	Text	The text that an accessibility tool reads to represent the object when <code>read-alternate-text</code> is specified for the <code>meta-props-options</code> attribute	On the <b>Accessibility</b> tab of the paragraph properties, the <b>Alternate text</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-language	Enum	<p>The language used when the meta-props-options attribute is set to read-alternate-text or read-object-text. If this attribute is omitted and no other parent object has a language, the default customer language is used. If this attribute is omitted and a parent object has a language, the language specified on the parent object is inherited.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• default—The default customer language</li> <li>• amharic—Amharic</li> <li>• arabic—Arabic</li> <li>• armenian—Armenian</li> <li>• bengali—Bengali</li> <li>• catalan—Catalan</li> <li>• cebuano—Cebuano</li> <li>• chinese—Chinese (PRC)</li> <li>• chinese-tw—Chinese (Taiwan)</li> <li>• chinese-hk—Chinese (Hong Kong SAR)</li> <li>• chinese-sg—Chinese (Singapore)</li> <li>• czech—Czech</li> <li>• danish—Danish</li> <li>• dutch—Dutch</li> <li>• english-us—English (American)</li> <li>• english-au—English (Australian)</li> <li>• english-uk—English (British)</li> <li>• farsi—Farsi (Persian)</li> <li>• finnish—Finnish</li> <li>• french—French</li> <li>• french-creole—French Creole</li> <li>• french-ca—French (Canadian)</li> <li>• german—German</li> <li>• gujarati—Gujarati</li> <li>• hawaiian—Hawaiian</li> <li>• hindi—Hindi</li> <li>• hmong—Hmong</li> </ul>	On the <b>Accessibility</b> tab of the paragraph properties, the <b>Accessibility language</b> list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• hungarian—Hungarian</li> <li>• igbo—Igbo</li> <li>• ilokano—Ilokano</li> <li>• italian—Italian</li> <li>• japanese—Japanese</li> <li>• khmer—Khmer</li> <li>• korean—Korean</li> <li>• kru—Kru</li> <li>• lao—Lao</li> <li>• marshallese—Marshallese</li> <li>• navajo—Navajo</li> <li>• nepali—Nepali</li> <li>• norway—Norwegian</li> <li>• norway-bokmal—Norwegian (Bokmål)</li> <li>• newnorway—Norwegian (Nynorsk)</li> <li>• oromo—Oromo</li> <li>• pohnpeian—Pohnpeian</li> <li>• polish—Polish</li> <li>• portug—Portuguese</li> <li>• brazil—Portuguese (Brazilian)</li> <li>• punjabi—Punjabi</li> <li>• romanian—Romanian</li> <li>• russian—Russian</li> <li>• samoan—Samoan</li> <li>• spanish—Spanish</li> <li>• swedish—Swedish</li> <li>• tagalog—Tagalog</li> <li>• thai—Thai</li> <li>• tongan—Tongan</li> <li>• turkish—Turkish</li> <li>• ukranian—Ukrainian</li> <li>• urdu—Urdu</li> <li>• vietnamese—Vietnamese</li> <li>• yoruba—Yoruba</li> </ul>	

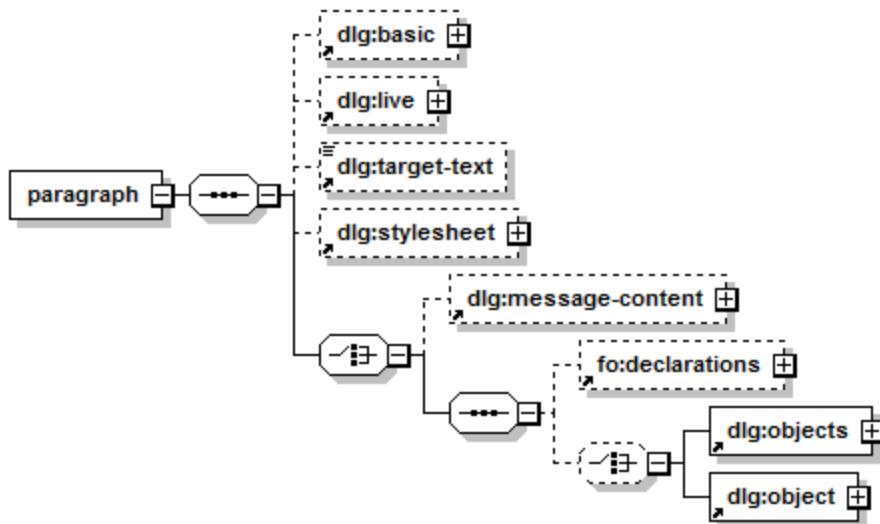
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-options	Enum	<p>Specifies whether object text or alternate text is read by accessibility tools</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>do-not-read—Do not read object text or alternate text for this object or for any of its child objects.</li> <li>read-alternate-text—Read the alternate text specified for the meta-props-alternate-text attribute.</li> <li>read-object-text—Read the text that is associated with a textual object.</li> </ul>	On the <b>Accessibility</b> tab of the paragraph properties, the <b>Read options</b> list
meta-props-order	Int	The numerical order in which you want the text to be read by accessibility tools when the meta-props-option attribute is set to <b>read-alternate-text</b> or <b>read-object-text</b>	On the <b>Accessibility</b> tab of the paragraph properties, the <b>Read order</b> box
page-duplex	Bool	Not used	
page-orientation	Enum	Not used	
page-placement	Enum	<p>Specifies how a simplex page will be printed on a duplex printer</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>any—The page can be placed on the front or back of any sheet of paper, as long as the paper types match.</li> <li>front—The page is always placed on the front of a sheet of paper. Anything, as long as it uses the same paper type, can be placed on the back of the sheet.</li> <li>frontnoback—The page is always placed on the front of a sheet of paper. Nothing can be placed on the back of the sheet.</li> <li>anynomatch—The page can be placed on the front or back of a sheet of paper, and can use any available paper type.</li> <li>frontnomatch—The page can be placed only on the front of a sheet of paper and can use any available paper type.</li> </ul>	On the <b>Basic</b> tab of the properties of the containing page, the <b>How to print simplex page on duplex outputs</b> list
page-template	Ref	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
page-type	Enum	<p>The value paragraph should be specified for this attribute.</p> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• text</li> <li>• graphic</li> <li>• insert</li> <li>• both</li> <li>• page</li> <li>• msg-analysis</li> <li>• multipleup</li> <li>• form</li> </ul>	
paper-type	Ref	Not used	
renumber-text	Bool	Specifies whether numbering in the paragraph is continued from the previous paragraph	On the <b>Basic</b> tab of the paragraph properties, the <b>Renumber this text when placed in frame</b> check box
schemaVersion	Int	The schema version for this DXF document	
send-default	Bool	Specifies whether to use the default language for a customer when the 'SYS_LanguageCustomer' variable is not defined	On the <b>Content</b> tab of the paragraph properties, the <b>Send default language if customer language does not exist</b> check box
size	Coord	The size of the paragraph object	
stylesheet	Ref	A reference to the default style sheet ( <code>stylesheet (dlg:stylesheet)</code> ) to use for the paragraph	In Designer, the <b>Select Style Sheet</b> dialog box for the paragraph
top-flow-margin	Int	The minimum space, in logical units, required between the current paragraph and the previous paragraph in the frame before the current paragraph is forced to the next flow frame	
track-begin	Date	The beginning date for which tracking information should be generated for the paragraph	In the <b>Period</b> dialog box for the paragraph (accessed by clicking <b>Date Range</b> in the <b>Tracking period</b> box on the <b>Targeting</b> tab of the paragraph properties), the <b>From</b> date

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
track-end	Date	The ending date for which tracking information should be generated for the paragraph	In the <b>Period</b> dialog box for the paragraph (accessed by clicking <b>Date Range</b> in the <b>Tracking period</b> box on the <b>Targeting</b> tab of the paragraph properties), the <b>To</b> date
tracking-level	Enum	<p>Specifies the type of tracking information you want to generate for the paragraph</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—Do not generate tracking information for the paragraph.</li> <li>• <b>summary</b>—Generate a summary of information about the paragraph.</li> <li>• <b>customer</b>—Generate a summary of information about the paragraph and each of the customers who receives the paragraph.</li> </ul>	On the <b>Targeting</b> tab of the paragraph properties, the <b>Customer list</b>
type	Text	Not used	
url	Text	When <b>static</b> is specified for the <b>link-type</b> attribute, the URL to which you want the paragraph to link	On the <b>Basic</b> tab of the paragraph properties, the <b>Link to URL (when included in electronic output)</b> box
usage-rule	Ref	A reference to the rule that determines whether the paragraph is included for a customer	On the <b>Targeting</b> tab of the paragraph properties, the <b>Rule</b> box
user-identifier	Text	The identifier used in the print stream to specify actions to be performed by post-processing equipment when encountering the paragraph	On the <b>Basic</b> tab of the paragraph properties, the <b>External message identifier</b>
variable-hyperlink	Ref	When <b>variable</b> is specified for the <b>link-type</b> attribute, a reference to the variable that provides the destination URL for the link	On the <b>Basic</b> tab of the paragraph properties, the <b>Link to URL (when included in electronic output)</b> variable box
version	Int	The version number of the object	In the <b>Administration</b> dialog box for the object, the <b>Version</b> box, or, in the history view for the object, the <b>Version</b> column
widow-orphan	Int	When <b>true</b> is specified for the <b>can-split-text</b> attribute, the number of lines of text that must be able to appear before and after a split in order for the paragraph to be split	On the <b>Basic</b> tab of the paragraph properties, the <b>Widow/orphan control</b> box
width	Int	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xmlns:dlg	Text	The URI for the Exstream namespace	
xmlns:dxf	Text	The URI for the DXF namespace	
xmlns:fo	Text	The URI for the XSL-FO namespace	

## Structure



## Example

```

<dlg:paragraph xmlns:dlg="http://www.exstream.com/2003/XSL/Dialogue"
    aggreg-data-enable="no" bottom-flow-margin="0" can-split-text="false"
    height="327" internet="false" keep-with-next="false"
    keep-with-previous="false" renumber-text="false" schemaVersion="2.0"
    track-begin="" track-end="" tracking-level="none" url=" "
    usage-rule="UsageRule|0|" widow-orphan="2" width="8500"
    xmlns:dxf="http://www.exstream.com/2008/XSL/DXF"
    xmlns:fo="http://www.w3.org/1999/XSL/Format">
    <dlg:basic
        folder="Folder|3|Dialogue Live" oid="148">
        <dlg:name>Sample paragraph</dlg:name>
        <dlg:description/>
    </dlg:basic>
    <fo:declarations>
        <dlg:tab-ruler default-tab="247.00lu" id="0" list-type="none"
            number-indent="0" number-string="" number-type="num"
            user-set-color="false" user-set-type="false"/>
    
```

```
</fo:declarations>
<dlg:object>
  <dlg:text can-split="false" columns="1" corner-size="4pt"
  current-angle="0" delay-comp="none" flip-h="false"
  flip-v="false" flow-around="no" flow-break="auto"
  frame-style="frame" gutter-size="0lu" h-auto-size="false"
  ignore-relative="no" language="Language|0|"
  lock-proportions="false" pos-rel-to-above="0"
  reference-name="Text Message" shadow="none" v-auto-size="false">
    <dlg:rect bottom="0.00pt"
    left="0.00pt" right="0.00pt" top="0.00pt"/>
    <fo:flow
      display-align="auto" height="127.00lu"
      margin-bottom="100.00lu" margin-left="100.00lu"
      margin-right="100.00lu" margin-top="100.00lu"
      width="8300.00lu">
      <fo:block end-indent="0lu" keep-together="auto"
      keep-with-next="auto" line-height="0lu" space-after="0lu"
      space-before="0lu" start-indent="0lu" tab-ruler="0"
      text-align="left" text-indent="0lu" usage-rule="Rule|0|">
        <fo:inline color=""
        font-family="Times New Roman" font-size="10.00pt"
        font-style="normal" letter-spacing="0.00pt">
          est tes te
        </fo:inline>
      </fo:block>
    </fo:flow>
  </dlg:text>
</dlg:object>
</dlg:paragraph>
```

## 4.1.10 section (dlg:section)

The `dlg:section` element specifies a section object in Exstream Design and Production and can contain multiple paragraph objects.

### Parents

`dlg:document`

Additionally, `dlg:section` can be a root element.

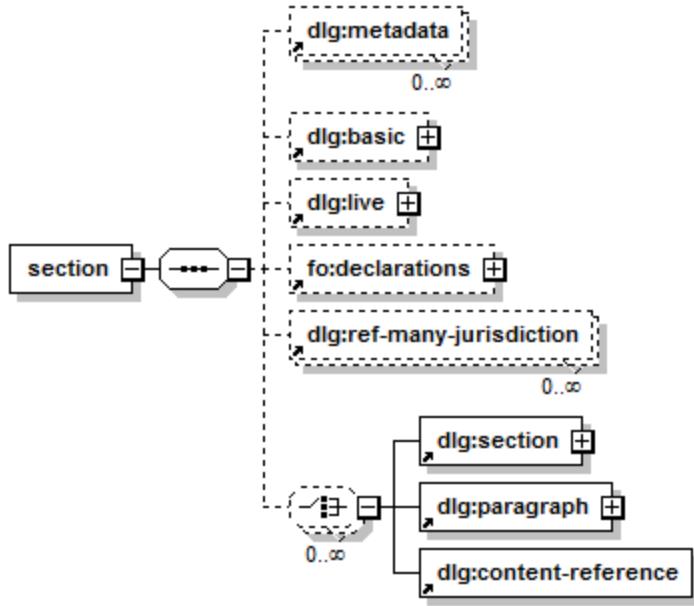
### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>aggreg-data-bound</code>	Enum	Specifies whether paragraphs within the section can be merged during data aggregation  One of the following: <ul style="list-style-type: none"><li>• <code>no</code>—The paragraph cannot be merged during data aggregation.</li><li>• <code>yes</code>—The paragraph can be merged during data aggregation.</li></ul>	On the <b>Basic</b> tab of the section properties, the <b>Enable data aggregation</b> check box
<code>data-section-name</code>	Text	When <code>named-sections</code> specified for the <code>inclusion-method</code> attribute, the name of the section in a data file selected that determines whether this section is included	On the <b>Targeting</b> tab of the section properties, the <b>Data Section Name</b> box..
<code>design-page</code>	Ref	A reference to the page object that determines the display width of the section when it is viewed in Designer	On the <b>Basic</b> tab of the section properties, the <b>Design Page</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
flow-target-type	Enum	<p>Specifies how to handle overflow content from the section</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>any—Allow the content of the section to flow to any frame, regardless of whether the frame has a name.</li> <li>any-unnamed—Allow the content of the section to flow only to unnamed frames.</li> <li>any-names—Allow the content of the section to flow only to named frames, regardless of the name of the frame.</li> <li>named—Use the frame specified for the named-flow attribute to contain the overflow content.</li> </ul>	On the <b>Flow</b> tab of the page properties, the <b>Destination of overflow from this page</b> drop-down list
inclusion-method	Enum	<p>The method used to determine whether a section is included for a customer</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>rule—Include the section based on the rule referenced by the usage-rule attribute.</li> <li>named-section—Include the section when a data section with the name specified for the data-section-name attribute is read in the data file.</li> </ul>	<p>On the <b>Targeting</b> tab of the document properties, the <b>Inclusion Method</b> drop-down list</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>Note:</b> XML node settings are not supported in DXF files.</p> <p>The <b>XML Node</b> option on the <b>Inclusion-Method</b> drop down list does not have a corresponding attribute in the DXF elements.</p> </div>
jurisdiction-use	Enum	<p>Specifies how the jurisdictions referenced by the <code>dlg:ref-many-jurisdiction</code> elements included as children of this element apply to effectivity dates</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>all—Use the same effectivity dates for all jurisdictions and ignore the included jurisdictions.</li> <li>specified—Apply the effectivity dates specified individually for each included jurisdiction.</li> <li>except—Do not apply effectivity dates for the included jurisdictions.</li> </ul>	On the <b>Regulatory</b> tab of the section properties, the <b>Enable jurisdictional effectivity</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
message-target-type	Ref	When content-frame-only or any is specified for the section-paragraph-usage attribute, a reference to a message type that determines which content frames accept this section	On the <b>Basic</b> tab of the section properties, the <b>Target Frame Message</b> box
named-flow	Ref	When named is specified for the flow-target-type attribute, a reference to the flow target associated with frames that will contain overflow content	On the <b>Basic</b> tab of the section properties, the box adjacent to the <b>Paragraph flow</b> drop-down list
schemaVersion	Int	The schema version for this DXF document	
section-paragraph-usage	Enum	<p>Specifies the types of frames into which this section will be placed</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>flow-frame-only</b>—Place this section only into flow frames.</li> <li>• <b>content-frame-only</b>—Place this section only into content frames and use the <b>message-target-type</b> attribute to determine the target message type.</li> <li>• <b>any</b>—Place this section into either flow frames or content frames and use the <b>message-target-type</b> attribute to determine the target message type for content frames.</li> </ul>	On the <b>Basic</b> tab of the section properties, the <b>Target Frame</b> drop-down list
usage-rule	Ref	A reference to the rule that determines the inclusion of the section for a customer	On the <b>Targeting</b> tab of the section properties, the <b>Rule</b> box
xmlns:dlg	Text	The URI for the Exstream namespace	
xmlns:dxf	Text	The URI for the DXF namespace	
xmlns:fo	Text	The URI for the XSL-FO namespace	

## Structure



## Example

```
<dlg:section xmlns:dlg="http://engage.opentext.com/products/exstream"
  xmlns:fo="http://www.w3.org/1999/XSL/Format"
  xmlns:dx="http://www.exstream.com/2005/XSL/Dialogue">
  <dlg:basic>
    <dlg:name>Sample Section</dlg:name>
  </dlg:basic>
  <fo:declarations>
    ...
  </fo:declarations>
  <dlg:ref-many-jurisdiction>
    ...
  </dlg:ref-many-jurisdiction>
  <dlg:section>
    <dlg:paragraph>
      <dlg:basic>
        <dlg:name>Sample Paragraph</dlg:name>
      </dlg:basic>
      <dlg:object>
        ...
      </dlg:object>
    </dlg:paragraph>
  </dlg:section>
</dlg:section>
```

## 4.2 Design Elements

Design elements represent content in a design, such as text, images, shapes, tables, and charts.

Keep in mind that some design elements use the fo namespace. The elements in the fo namespace are either elements that are shared with XSL-FO or elements that are closely related to XSL-FO elements. For more information about namespaces in DXF, see “[About Namespaces](#)” on page 20.

Also keep in mind that many elements in this section use either the shared design object attributes or the shared XSL-FO attributes. Each element that uses one of these groups of attributes contains a cross-reference to the appropriate section.

For the list of shared design object attributes, see “[Shared Design Object Attributes](#)” on page 635.

For the list of shared XSL-FO object attributes, see “[Shared XSL-FO Attributes](#)” on page 650.

For more information about the design objects that are represented by elements in this section, see *Designing Customer Communications* in the Exstream Design and Production documentation.

This section contains the following elements:

- “[back-flow-frames \(dlg:back-flow-frames\)](#)” on page 110
- “[basic \(dlg:basic\)](#)” on page 111
- “[binary \(dlg:binary\)](#)” on page 113
- “[bitmap \(dlg:bitmap\)](#)” on page 115
- “[block \(fo:block\)](#)” on page 119
- “[bookmark \(fo:bookmark\)](#)” on page 126
- “[cascading-style-sheet \(dlg:cascading-style-sheet\)](#)” on page 129
- “[chart \(dlg:chart\)](#)” on page 131
- “[chart-overlay \(dlg:chart-overlay\)](#)” on page 245
- “[chart-series \(dlg:chart-series\)](#)” on page 254
- “[composed-chart \(dlg:composed-chart\)](#)” on page 264
- “[conditional-color \(dlg:conditional-color\)](#)” on page 265
- “[conditional-colors \(dlg:conditional-colors\)](#)” on page 270
- “[contained-ref \(dlg:contained-ref\)](#)” on page 274

- “[container \(dlg:container\)](#)” on page 276
- “[container-label \(dlg:container-label\)](#)” on page 281
- “[declarations \(fo:declarations\)](#)” on page 283
- “[description \(dlg:description\)](#)” on page 285
- “[embedded-object \(dlg:embedded-object\)](#)” on page 286
- “[flow \(fo:flow\)](#)” on page 295
- “[frame \(dlg:frame\)](#)” on page 297
- “[frame-component \(dlg:frame-component\)](#)” on page 298
- “[front-flow-frames \(dlg:front-flow-frames\)](#)” on page 299
- “[image \(dlg:image\)](#)” on page 300
- “[inline \(fo:inline\)](#)” on page 313
- “[library-component-ref \(dlg:library-component-ref\)](#)” on page 316
- “[logical-cell \(dlg:logical-cell\)](#)” on page 319
- “[metadata \(dlg:metadata\)](#)” on page 323
- “[name \(dlg:name\)](#)” on page 326
- “[named-flow-frame \(dlg:named-flow-frame\)](#)” on page 327
- “[object \(dlg:object\)](#)” on page 328
- “[objects \(dlg:objects\)](#)” on page 331
- “[page-frame \(dlg:page-frame\)](#)” on page 334
- “[paper-type \(dlg:paper-type\)](#)” on page 343
- “[points \(dlg:points\)](#)” on page 344
- “[rect \(dlg:rect\)](#)” on page 345
- “[shape \(dlg:shape\)](#)” on page 347
- “[signature-field \(dlg:signature-field\)](#)” on page 357
- “[spacer \(dlg:spacer\)](#)” on page 359
- “[table \(dlg:table\)](#)” on page 361
- “[table-cell \(fo:table-cell\)](#)” on page 368
- “[table-column \(fo:table-column\)](#)” on page 374
- “[table-row \(fo:table-row\)](#)” on page 376
- “[tab-ruler \(dlg:tab-ruler\)](#)” on page 391

- “[tab-stop \(dlg:tab-stop\)](#)” on page 399
- “[text \(dlg:text\)](#)” on page 401
- “[text-frame \(dlg:text-frame\)](#)” on page 410
- “[wrapper-coordinate \(dlg:wrapper-coordinate\)](#)” on page 412

## 4.2.1 back-flow-frames (dlg:back-flow-frames)

The `dlg:back-flow-frames` element contains a flow frame (using a `dlg:frame` element) on the back of a page in XML (composed) output produced by the engine. The `dlg:back-flow-frames` element is not used in imported DXF.

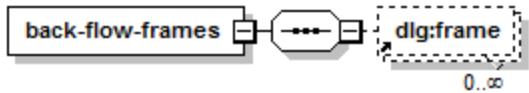
### Parents

`dlg:page`

### Attributes

None.

### Structure



## 4.2.2 basic (dlg:basic)

The `dlg:basic` element specifies the name, description, and Library folder for an Exstream Design and Production Library object. You use child elements to specify the name and description, and you use an attribute to specify the folder.

If you use the `dlg:basic` element to specify a Library folder, Design Manager ignores the folder that is specified in the **Import DXF** dialog box when you import the DXF file.

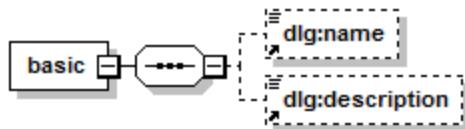
### Parents

```
dlg:application
dlg:barcode
dlg:cascading-style-sheet
dlg:campaign
dlg:container-label
dlg:document
font-face (dlg:font-face)
dlg:hyperlink-anchor
dlg:inserter
dlg:library-component
dlg:message
dlg:metadata-decls
dlg:named-flow-frame
dlg:page
dlg:paragraph
dlg:section
dlg:usage-rule
dlg:variable
```

## Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
folder	Ref	A reference to the Library folder in which the object will be placed when the DXF is imported. This value overrides the folder that is specified in the <b>Import DXF</b> dialog box.	The folder that contains an object in the Library
oid	Int	The internal object identifier. This value is used by other attributes of type Reference to reference the specified object.  <b>Note:</b> If you specify a value for the <code>oid</code> attribute that is the same as an existing object, then the existing object will be overwritten.	
xmlns	Text	The URL for the XML namespace that is used for the child elements within the specified object	

## Structure



## Example

```
<dlg:library-component
    xmlns:dlg="http://www.exstream.com/2003/XSL/dialog box boxue"
    xmlns:dx="http://www.exstream.com/2008/XSL/DXF"
    xmlns:fo="http://www.w3.org/1999/XSL/Format">
    <dlg:basic xmlns="http://www.exstream.com/2004/01/dds/meta">
        <dlg:name>AAA1 reimported</dlg:name>
        <dlg:description>Converted by TopDown2DXF</dlg:description>
    </dlg:basic>
    ...
</dlg:library-component>
```

### 4.2.3 binary (dlg:binary)

The `dlg:binary` element contains Base64-encoded binary image data stored within the DXF file.

#### Parents

`dlg:bitmap`

`dlg:dib`

#### Attribute

Attribute	Data type	Description
<code>encoding</code>	Enum	<p>The encoding scheme of the binary data. Only Base64 encoding is supported.</p> <p>The setting must be <code>base64</code>.</p>

#### Structure



## Example

```
<dlg:image>
  <dlg:rect bottom="523.87pt" left="54.00pt" right="178.06pt"
top="478.30pt"/>
  <dlg:bitmap>
    <dlg:binary>
encoding="base64">TFRSSQEAAAABAAUCvgDwAPAAAgD//8AAAAAAI4pDBJFt4a19JuXeuQkeJbE
24iiC7wkCpfMZIn0RZvK2fRvQZ/07xb5GA6ZIMvEyACdbawX5NS3UA98ARTT
tXrpBqHoZJyLs7kpPHeNA1VGkUHt38bUGkUMzq4rEV501z23tvL0k09RN1S
H86SREtUHQ2j4UBjU62uLxWly8MOJMCPg16hSm6/nFde5qA3NRiOwh9Bxb1sd
yeHTJH/1JgonL6TiIdKGVZi3PC28WBsSdhGCSxClaAHKeOdQTchWl1YISM2
fZsbsso+GX5G1uNI4R2nr1PqNTP7VEVocGXoL2SQdt7an08tsA605AccYEycl
1mZyVKhB9Rnnd3W2YAe5TDY88TbWHqgFLCtbDFcgnDeERXRdHdLmykKazDFa
hradKrjtyaNwUWFU0velqk4Q2bxJEHMDU576JC/LgYwr/yg3I50m/YQ14u7
aG//NIbKTfEhtBIDalNMSPGTp2/k/BEcmlQVynUk7M7RoHpKQI9ZbvghaMoPT
nJrUctjYtQdiuFm8IfPw15pKKYziyjr0zyJZUcjKXoNcY5Eauel9kF8yzhK3
djcRZaLKhyNbYq+4rK1PbSz1Ytg6bY8YLPFut8BaKBXc9MOIVBKrB52mETRM
Z89gqbYL79ZZ0WB7gpkiD9+SS+MHG5rJHIcQaWu0cxPk6xKz170uI9d8Mya5
dFCEcvpYit49ccCKGTu6fV3uqGgrU6wg7GU25gt4AIpm40mCEirK6P+uK1K3
FcVIFje0ZUVBiyb8Cxj5FrA6l0vrQITqunGo/5yiyxRJxuxpbWtB10+M8qW
h2NsZ5z1sF6uac96KDav+h01T86atX0YvZ2APTGZNEoVJ/GPpyHOJDdfQAAA</dlg:binary>
  </dlg:bitmap>
</dlg:image>
```

## 4.2.4 bitmap (dlg:bitmap)

The `dlg:bitmap` element represents a bitmap image used for an image design object.

### Parents

`dlg:image`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>angle</code>	Int	The amount to rotate the image, in hundredths of degrees, when importing	On the <b>Placement</b> tab of the image properties, the <b>Rotation</b> box
<code>black-color</code>	Color	The color to convert to black when converting the image to black-and-white	In the <b>Image Color Management</b> dialog box for the image, the <b>Color to convert to black</b> color well
<code>convert</code>	Enum	<p>The set of colors used for the converted image One of the following:</p> <ul style="list-style-type: none"><li>• <code>black-and-white</code>—The colors in the image are converted to black-and-white, converting the color specified for the <code>black-color</code> attribute to black.</li><li>• <code>color-and-white</code>—The colors in the image are converted to white and a highlight color determined by the output device, converting the color specified for the <code>h1-color</code> attribute to the highlight color.</li><li>• <code>highlight-color</code>—The colors in the image are converted to black and a highlight color determined by the output device, converting the color specified for the <code>black-color</code> attribute to black and the color specified for the <code>h1-color</code> attribute to the highlight color.</li></ul>	In the <b>Image Color Management</b> dialog box for the image, the <b>Highlight color</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
dither-method	Int	<p>The dithering method used for converting the colors in the image</p> <p>Must be in the range 0–8, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—None</li> <li>• 1—Floyd-Steinberg</li> <li>• 2—Stucki</li> <li>• 3—Burkes</li> <li>• 4—Sierra</li> <li>• 5—Stevenson Arche</li> <li>• 6—Jarvis</li> <li>• 7—Ordered</li> <li>• 8—Clustered</li> </ul>	In the <b>Image Color Management</b> dialog box for the image, the <b>Color conversion</b> drop-down list
filename	Text	The path and file name of the image if the binary data for the image is not included in a child <a href="#">dlg:binary</a> element	On the <b>Image</b> tab of the image properties, the <b>User-specified path</b> box (The <b>Image path location</b> setting is assumed to be <b>Use specified URL/path</b> if a child <a href="#">dlg:binary</a> element is not included.)
halftone	Bool	Specifies whether a halftone screen is used for a black-and-white image	In the <b>Image Color Management</b> dialog box for the image, the <b>B/W halftone</b> check box
halftone-angle	Int	The rotation, in degrees, of the dots used for halftone in the image, when 0, 3, or 5 is specified for the <b>halftone-shape</b> attribute. Must be in the range 0–180.	In the <b>Image Color Management</b> dialog box for the image, the <b>Angle</b> box
halftone-grain	Int	The size, in pixels, of the dots used for halftone in the image, when 1–5 is specified for the <b>halftone-shape</b> attribute. Must be in the range 1–15.	In the <b>Image Color Management</b> dialog box for the image, the <b>Grain size</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
halftone-shape	Int	The shape of the dots used for halftone in the image  Must be in the range 0–5, corresponding to the following settings: <ul style="list-style-type: none"><li>• 0—Default</li><li>• 1—Rectangular</li><li>• 2—Circular</li><li>• 3—Elliptical</li><li>• 4—Random</li><li>• 5—Linear</li></ul>	In the <b>Image Color Management</b> dialog box for the image, the <b>Shape</b> box
hl-color	Color	The color to convert to the highlight color determined by the output device when <b>color-and-white</b> or <b>highlight-color</b> is specified for the <b>convert</b> attribute	In the <b>Image Color Management</b> dialog box for the image, the <b>Color to convert to highlight color</b> color well
original-stored	Bool	Indicates whether the original image data has been stored	In the <b>Image Color Management</b> dialog box for the image, the <b>Original full-color image data stored</b> check box
repository-id	Str	The object identifier for an image imported from a repository	N/A
scale-x	Int	The percentage to horizontally scale the image when importing	On the <b>Placement</b> tab of the image properties, the <b>Scale width</b> box
scale-y	Int	The percentage to vertically scale the image when importing	On the <b>Placement</b> tab of the image properties, the <b>Scale height</b> box

## Structure



## Example

```
<dlg:image>
  <dlg:rect bottom="490pt" left="54pt" right="180pt" top="440pt"/>
  <dlg:bitmap angle="9000" black-color="rgb(0,0,40)"
    convert="black-and-white" dither-method="1"
    filename="C:\images\myimage.jpg" scale-x="75" scale-y="75" />
</dlg:image>
```

## 4.2.5 block (fo:block)

The fo:block element represents a block of text or text paragraph (not an Exstream paragraph object) within a text area.

### Parents

```
dlg:embedded-object
dlg:objects
fo:basic-link
fo:block
block-container (fo:block-container)
float (fo:float)
fo:flow
fo:footnote-body
fo:inline
inline-container (fo:inline-container)
list-item-body (fo:list-item-body)
list-item-label (fo:list-item-label)
table-caption (fo:table-caption)
fo:table-cell
wrapper (fo:wrapper)
```

### Attributes

In addition to the following attributes, the fo:block element uses one or more of the common attributes found in “[Shared XSL-FO Attributes](#)” on page 650.

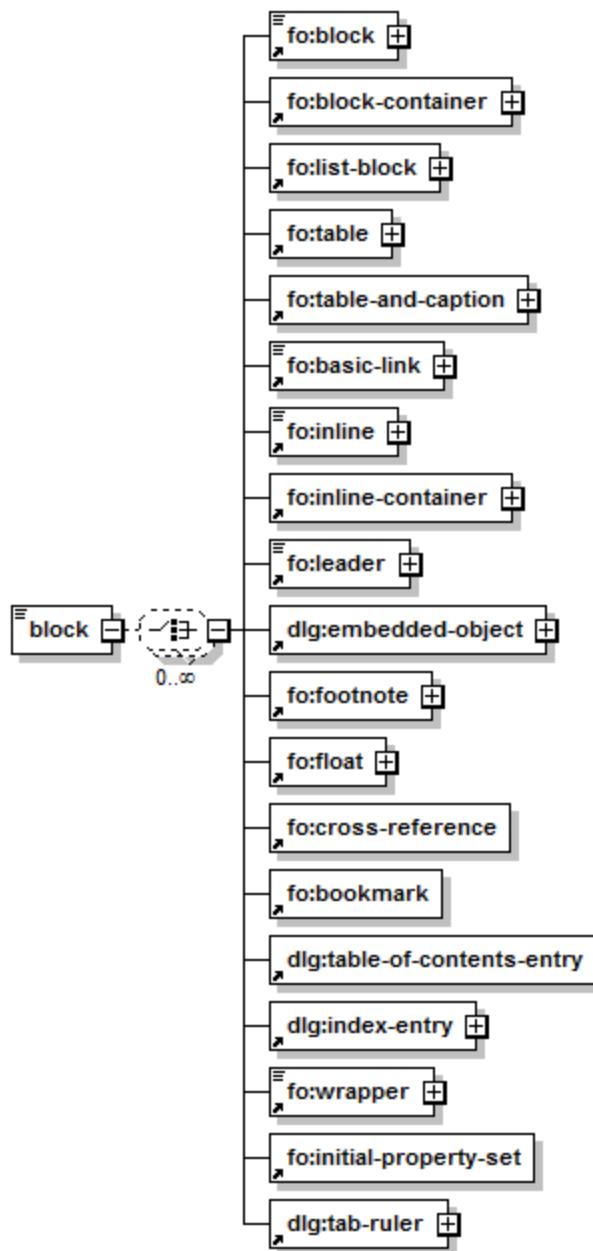
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
adjust-space-above-text	Bool	<p>Specifies whether the space above the text paragraph adds the top margin of the text paragraph to the bottom margin of the preceding text object or floating embedded object, whichever is greater.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>true</b>—The spacing is calculated between the current and preceding text paragraphs.</li> <li>• <b>false</b>—The spacing is calculated between the current text paragraph and the preceding embedded object.</li> </ul> <p>Valid for the following values of the <code>clear-floating-objects</code> attribute:</p> <ul style="list-style-type: none"> <li>• <b>both</b></li> <li>• <b>left</b></li> <li>• <b>right</b></li> </ul>	On the <b>Text paragraph properties</b> tab of the text paragraph properties, in the <b>Float options</b> area, the <b>Adjust space above text</b> check box
clear-floating-objects	Enum	<p>Specifies the sides of the text paragraph where embedded objects are allowed to float relative to the text</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—The preceding embedded objects can float to the left or right of the text paragraph.</li> <li>• <b>left</b>—The preceding embedded objects cannot float on the left side of the text paragraph.</li> <li>• <b>right</b>—The preceding embedded objects cannot float on the right side of the text paragraph.</li> <li>• <b>both</b>—The preceding embedded objects cannot float on either the left or the right side of the text paragraph.</li> </ul>	On the <b>Text paragraph properties</b> tab of the text paragraph properties, in the <b>Float options</b> area, the <b>Clear list</b>
meta-props-alternate-text	Text	The text that an accessibility tool reads to represent the object when <code>read-alternate-text</code> is specified for the <code>meta-props-options</code> attribute	On the <b>Accessibility</b> tab of the text or text paragraph properties, the <b>Alternate text</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-language	Enum	<p>The language used when the meta-props-options attribute is set to read-alternate-text or read-object-text. If this attribute is omitted and no other parent object has a language, the default customer language is used. If this attribute is omitted and a parent object has a language, the language specified on the parent object is inherited.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• default—The default customer language</li> <li>• amharic—Amharic</li> <li>• arabic—Arabic</li> <li>• armenian—Armenian</li> <li>• bengali—Bengali</li> <li>• catalan—Catalan</li> <li>• cebuano—Cebuano</li> <li>• chinese—Chinese (PRC)</li> <li>• chinese-tw—Chinese (Taiwan)</li> <li>• chinese-hk—Chinese (Hong Kong SAR)</li> <li>• chinese-sg—Chinese (Singapore)</li> <li>• czech—Czech</li> <li>• danish—Danish</li> <li>• dutch—Dutch</li> <li>• english-us—English (American)</li> <li>• english-au—English (Australian)</li> <li>• english-uk—English (British)</li> <li>• farsi—Farsi (Persian)</li> <li>• finnish—Finnish</li> <li>• french—French</li> <li>• french-creole—French Creole</li> <li>• french-ca—French (Canadian)</li> <li>• german—German</li> <li>• gujarati—Gujarati</li> <li>• hawaiian—Hawaiian</li> <li>• hindi—Hindi</li> <li>• hmong—Hmong</li> </ul>	On the <b>Accessibility</b> tab of the text or text paragraph properties, the <b>Accessibility language</b> list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• hungarian—Hungarian</li> <li>• igbo—Igbo</li> <li>• ilokano—Ilokano</li> <li>• italian—Italian</li> <li>• japanese—Japanese</li> <li>• khmer—Khmer</li> <li>• korean—Korean</li> <li>• kru—Kru</li> <li>• lao—Lao</li> <li>• marshallese—Marshallese</li> <li>• navajo—Navajo</li> <li>• nepali—Nepali</li> <li>• norway—Norwegian</li> <li>• norway-bokmal—Norwegian (Bokmål)</li> <li>• newnorway—Norwegian (Nynorsk)</li> <li>• oromo—Oromo</li> <li>• pohnpeian—Pohnpeian</li> <li>• polish—Polish</li> <li>• portug—Portuguese</li> <li>• brazil—Portuguese (Brazilian)</li> <li>• punjabi—Punjabi</li> <li>• romanian—Romanian</li> <li>• russian—Russian</li> <li>• samoan—Samoan</li> <li>• spanish—Spanish</li> <li>• swedish—Swedish</li> <li>• tagalog—Tagalog</li> <li>• thai—Thai</li> <li>• tongan—Tongan</li> <li>• turkish—Turkish</li> <li>• ukranian—Ukrainian</li> <li>• urdu—Urdu</li> <li>• vietnamese—Vietnamese</li> <li>• yoruba—Yoruba</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-options	Enum	<p>Specifies whether object text or alternate text is read by accessibility tools</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• do-not-read—Do not read object text or alternate text for this object or for any of its child objects.</li> <li>• read-alternate-text—Read the alternate text specified for the meta-props-alternate-text attribute.</li> <li>• read-object-text—Read the text that is associated with a textual object.</li> </ul>	On the <b>Accessibility</b> tab of the text or text paragraph properties, the <b>Read options</b> list
meta-props-order	Int	The numerical order in which you want the text to be read by accessibility tools when the meta-props-option attribute is set to <code>read-alternate-text</code> or <code>read-object-text</code>	On the <b>Accessibility</b> tab of the text or text paragraph properties, the <b>Read order</b> box
meta-props-pdf-tag	Enum	<p>The type of text that the object contains</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• paragraph</li> <li>• heading</li> <li>• heading 1</li> <li>• heading 2</li> <li>• heading 3</li> <li>• heading 4</li> <li>• heading 5</li> <li>• heading 6</li> <li>• list item</li> </ul>	On the <b>Accessibility</b> tab of the text paragraph properties, the <b>Read text as</b> list
tab-ruler	Int	<p>The ID number of the <code>dlg:tab-ruler</code> element (as specified by the <code>id</code> attribute) used to define the custom tab rulers or list-related properties for this block of text</p> <p>Alternatively, you can define a <code>dlg:tab-ruler</code> directly within the <code>fo:block</code> element.</p>	
usage-rule	Ref	A reference to the rule that determines the inclusion of the component for a customer	The <b>Rule</b> tab of the <b>Text paragraph properties</b> dialog box

## Structure



## Example

```
<dlg:text ...>
  <dlg:rect .../>
  <fo:flow ...>
    <fo:block end-indent="0lu" is-comment="false" keep-together="auto"
      keep-with-next="auto" line-height="0lu" line-spacing="single"
      meta-props-alternate-text="Alt Text in left column"
      meta-props-language="german" meta-props-options=
      "read-alternate-text" meta-props-pdf-tag=
      "heading6" space-after="0lu" space-before="0lu" start-indent=
      "0lu" tab-ruler="8" text-align="left" text-indent="0lu"
      usage-rule="Rule|0|">
      <fo:inline color="" comment-type="normal" font-family=
        "Times New Roman" font-size="12.00pt" font-style="normal"
        is-comment="false" letter-spacing="0.00pt"
        page-break-before="auto" text-decoration="none">TextPara - alternate text German - Heading 6
      </fo:inline>
    </fo:block>
  </fo:flow>
</dlg:text>
```

## 4.2.6 bookmark (fo:bookmark)

The fo:bookmark element represents a PDF bookmark within a text area.

### Parents

```
fo:basic-link
fo:block
block-container (fo:block-container)
float (fo:float)
fo:flow
fo:footnote-body
fo:inline
inline-container (fo:inline-container)
list-item-body (fo:list-item-body)
list-item-label (fo:list-item-label)
table-caption (fo:table-caption)
fo:table-cell
wrapper (fo:wrapper)
```

## Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
source	Enum	<p>The source of the text that appears for the bookmark</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• paragraph—Use all of the text in the paragraph as the bookmark text. This value is valid only when the <code>fo:bookmark</code> element is a child of an <code>fo:block</code> element.</li><li>• variable—Use the variable referenced by the <code>variable</code> attribute to provide custom text for the bookmark for each customer.</li><li>• text—Use the text specified for the <code>text</code> attribute as the bookmark text.</li></ul> <p>The following value is not used:</p> <ul style="list-style-type: none"><li>• none</li></ul>	In the <b>PDF Bookmark Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add PDF Bookmark</b> context menu selection), the <b>Text source</b> drop-down list
text	Text	When <code>text</code> is specified for the <code>source</code> attribute, the text to use as the bookmark text	In the <b>PDF Bookmark Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add PDF Bookmark</b> context menu selection), the <b>Text source</b> box
variable	Ref	When <code>variable</code> is specified for the <code>source</code> attribute, a reference to the variable that contains the bookmark text	In the <b>PDF Bookmark Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add PDF Bookmark</b> context menu selection), the <b>Text source</b> variable selection box

## Structure



## Example

```
<fo:block end-indent="0lu" is-comment="false" keep-together="auto"
keep-with-next="auto" line-height="0lu" line-spacing="single"
space-after="0lu" space-before="0lu" start-indent="0lu" tab-ruler="5"
text-align="left" text-indent="0lu" usage-rule="Rule|0|">
    <fo:bookmark source="variable" variable=
        "Variable|602|Customer_Name_Full"/>
    <fo:inline color="" font-family="Times New Roman" font-size="10.00pt"
font-style="normal" is-comment="false" letter-spacing="0.00pt"
page-break-before="auto">this is a test link within an inline
    </fo:inline>
</fo:block>
```

## 4.2.7 cascading-style-sheet (dlg:cascading-style-sheet)

The `dlg:cascading-style-sheet` element represents a cascading style sheet Library object in Exstream Design and Production.

### Parents

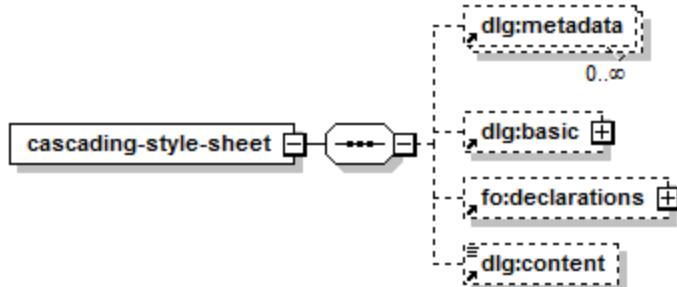
`fo:declarations`

### Attributes

Attribute	Data Type	Description	Corresponding Exstream Production Setting
<code>css-insertion-type</code>	Enum	<p>Specifies whether the CSS content that is included in or referenced by the CSS object is included in HTML (email) output and, if included, where the CSS styles are placed in HTML (email) output</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <code>none</code>—The CSS content is not included in HTML (email) output. This option is the default.</li><li>• <code>inline</code>—The CSS content is embedded at the HTML element level within each .html output file.</li><li>• <code>internal</code>—The CSS content is placed within the <code>&lt;head&gt;</code> element at the top of each .html output file.</li></ul>	On the <b>Basic</b> tab of the cascading style sheet object properties, the <b>CSS placement in HTML email output</b> drop-down list
<code>production-file-name</code>	Text	The name and location of the CSS file to use for production	On the <b>Basic</b> tab of the cascading style sheet object properties, the <b>Production file</b> box
<code>schemaVersion</code>	Int	The schema version for this DXF document	
<code>storage-type</code>	Enum	<p>Specifies where the CSS content is stored</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <code>file</code> - Reference a CSS file that is stored externally from Exstream.</li><li>• <code>user-content</code> - Reference CSS content that is stored within the cascading style sheet object in the Design Manager Library.</li></ul>	On the <b>Basic</b> tab of the cascading style sheet object properties, the <b>Source</b> drop-down list

Attribute	Data Type	Description	Corresponding Exstream Production Setting
test-file-name	Text	The name and location of the CSS file to use for testing	On the <b>Basic</b> tab of the cascading style sheet object properties, the <b>Test file</b> box
usage-rule	Ref	A reference to the rule (either in the Library or defined by a “ <a href="#">usage-rule (dlg:usage-rule) on page 594</a> ” element) that determines the inclusion of the text for a customer	On the <b>Targeting</b> tab of the cascading style sheet object properties, the <b>Rule</b> box
variable-for-file-naming	Ref	A reference to the variable that defines the location of the CSS file.	On the <b>Basic</b> tab of the cascading style sheet object properties, the <b>Variable for file naming</b> box
xmlns:dlg	Text	The URI for the Exstream namespace	
xmlns:dxf	Text	The URI for the DXF namespace	
xmlns:fo	Text	The URI for the XSL-FO namespace	

## Structure



## Example

```

<dlg:cascading-style-sheet css-insertion-type="internal" production-file-name="DD:CSS1" storage-type="file" test-file-name="C:\test.css" usage-rule="UsageRule|0|" variable-for-file-naming="Variable|0|">
    <dlg:basic folder="Folder|2000000000|Exstream" oid="13">
        <dlg:name>CSS1</dlg:name>
        <dlg:description></dlg:description>
    </dlg:basic>
    <fo:declarations>
        <dlg:variables/>
    </fo:declarations>
</dlg:cascading-style-sheet>

```

## 4.2.8 chart (dlg:chart)

The dlg:chart element represents a chart object.

### Parents

dlg:embedded-object  
dlg:object  
dlg:objects

### Attributes

Some attributes are valid only for certain chart types, determined by the value of the chart-type attribute. For lists of the attributes of the dlg:chart element that are valid for each chart type, see [“Attributes of the dlg:chart Element That Apply for Each Chart Type” on page 709](#).

In addition to the following attributes, the dlg:chart element uses one or more of the common attributes found in [“Shared Design Object Attributes” on page 635](#), which apply for all values of the chart-type attribute.

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
alternating-xy	Bool	<p>Specifies whether the variables used for each child dlg:chart-series element contain both x and y values in an alternating series (x1,y1,x2,y2, and so on). When false is specified for this attribute, a variable referenced by the xseries-variable attribute can contain x values.</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"><li>area</li><li>comparative-line</li><li>line</li><li>scattergram</li></ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>Arrays alternate x/y data values</b> check box
angle	Int	<p>The angle at which a pie chart appears tilted</p> <p>Valid when pie is specified for the chart-type attribute</p>	In the design area, the angle slider on the right side of the chart object

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
axes-display-level	Enum	<p>The layer on which the axis is drawn</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>low</b>—The axis is drawn behind the axis labels and the data series lines.</li> <li>• <b>high</b>—The axis is drawn in front of the axis labels and the data series lines.</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <b>default</b></li> <li>• <b>medium</b></li> </ul> <p>Valid when <code>radar</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot Area</b> tab, the <b>Axes display level</b> drop-down list
bar-label-orientation	Enum	<p>The orientation of the labels in a bar chart</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>normal</b>—Data labels are horizontal.</li> <li>• <b>face-left</b>—Data labels are rotated 90 degrees clockwise.</li> <li>• <b>face-right</b>—Data labels are rotated 90 degrees counter-clockwise.</li> <li>• <b>slant-up</b>—Data labels are rotated 45 degrees counter-clockwise.</li> <li>• <b>slant-down</b>—Data labels are rotated 45 degrees clockwise.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <b>bar</b></li> <li>• <b>comparative-bar</b></li> <li>• <b>floating-bar (Legacy)</b></li> <li>• <b>horizontal-bar</b></li> <li>• <b>horizontal-stacked-bar</b></li> <li>• <b>range</b></li> <li>• <b>stacked-bar</b></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Data labels</b> tab, the <b>Orientation</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
bar-label-placement	Enum	<p>The placement of the labels in a bar chart relative to the bars</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>above</b>—The labels are above the bars.</li> <li>• <b>below</b>—The labels are below the bars.</li> <li>• <b>by-direction</b>—The labels are above the bars for positive values and below the bars for negative values.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>range</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Data labels</b> tab, the <b>Placement</b> drop-down list
bar-label-type	Enum	<p>Specifies whether labels appear in a bar chart and the source of the labels</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—Bar labels do not appear.</li> <li>• <b>array</b>—Bar labels for all data series are provided by a single array variable, specified for the <code>label-variable</code> attribute of the first <code>dlg:chart-series</code> child element.</li> <li>• <b>per-series</b>—Bar labels for each data series are provided by a different array variable, specified for the <code>label-variable</code> attribute of each <code>dlg:chart-series</code> child element.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>range</code></li> <li>• <code>stacked-bar</code></li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>Bar labels</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
bar-percent-size	Int	<p>The width of the bars in the chart, expressed as a percentage of the white space available for each bar</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>range</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the design area, the bar width slider below the chart object
baseline	Ref	<p>A reference to the variable that specifies a custom starting point other than zero for the bars in the chart</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>stacked-bar</code></li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>Baseline</b> box
blend-areas	Bool	<p>Specifies whether fill colors in a radar chart are blended to illustrate where data overlaps</p> <p>Valid when <code>radar</code> is specified for the <code>chart-type</code> attribute</p>	On the <b>Chart Area</b> tab of the chart properties, the <b>Blend series colors</b> check box
border	Enum	<p>Specifies whether and on which sides a border appears around the chart</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—The chart does not have a border.</li> <li>• <code>full</code>—The chart has a border on all four sides.</li> <li>• <code>top-line</code>—The chart has a border only on the top side.</li> <li>• <code>bottom-line</code>—The chart has a border only on the bottom side.</li> <li>• <code>top-and-bottom</code>—The chart has a border only on the top and bottom sides.</li> </ul> <p>Valid for all values of the <code>chart-type</code> attribute</p>	On the <b>Chart Area</b> tab of the chart properties, the <b>Border</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>caption-orientation</code>	Enum	<p>The relative position of the captions in a label (scatter) chart</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>normal</code>—The caption text appears above each data point.</li> <li>• <code>face-left</code>—The caption text appears above each data point, rotated 90 degrees clockwise.</li> <li>• <code>face-right</code>—The caption text appears above each data point, rotated 90 degrees counter-clockwise.</li> <li>• <code>normal-caption-below</code>—The caption text appears below each data point.</li> <li>• <code>face-left-caption-below</code>—The caption text appears below each data point, rotated 90 degrees clockwise.</li> <li>• <code>face-right-caption-below</code>—The caption text appears below each data point, rotated 90 degrees counter-clockwise.</li> </ul> <p>Valid when <code>scatter</code> is specified for the <code>chart-type</code> attribute</p>	On the <b>Chart Area</b> tab of the chart properties, the <b>Caption orientation</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
chart-type	Enum	<p>The type of chart defined by the element</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <b>area</b>—Area chart</li><li>• <b>bar</b>—Bar chart</li><li>• <b>calendar</b>—Calendar chart</li><li>• <b>comparative-bar</b>—Comparative bar chart</li><li>• <b>comparative-line</b>—Comparative line chart</li><li>• <b>floating-bar</b>—Floating bar chart (Legacy)</li></ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>Chart type</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<p><b>Note:</b> In Exstream versions 9.5.201 and later, the functionality of the floating bar chart has been merged with that of the stacked bar chart. The floating bar chart type is still supported for the import of legacy DXF files, and for exporting to DXF from a legacy design containing floating bar charts. If you edit and save an existing floating bar chart in Designer, it will be automatically converted to a stacked bar chart with overlay, and any new export to DXF from that point forward will contain the stacked bar chart type.</p> <ul style="list-style-type: none"><li>• <b>horizontal-bar</b>—Horizontal bar chart</li><li>• <b>horizontal-stacked-bar</b>—Horizontal stacked bar chart</li><li>• <b>line</b>—Line chart</li><li>• <b>pie</b>—Pie chart</li><li>• <b>progress</b>—Progress chart</li><li>• <b>radar</b>—Radar chart</li></ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		 <ul style="list-style-type: none"> <li>• <b>range</b>—Range chart </li> <li>• <b>scatter</b>—Label (scatter) chart </li> <li>• <b>scattergram</b>—Scattergram chart </li> <li>• <b>stacked-bar</b>—Stacked bar chart </li> </ul>	
<b>crosshair-line-color</b>	Color	<p>The color of the crosshair in a scattergram chart</p> <p>Valid when <b>scattergram</b> is specified for the <b>chart-type</b> attribute</p>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Crosshair</b> tab, the <b>Line properties</b> color well
<b>crosshair-line-style</b>	Int	<p>The line style of the crosshair in a scattergram chart</p> <p>Must be in the range 0–4, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—_____</li> <li>• 1—- - - - - -</li> <li>• 2—- - - - - -</li> <li>• 3—- - - - - - -</li> <li>• 4—- - - - - - -</li> </ul> <p>Valid when <b>scattergram</b> is specified for the <b>chart-type</b> attribute</p>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Crosshair</b> tab, in the <b>Line properties</b> area, the style selection box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>crosshair-line-weight</code>	Int	The width, in logical units, of the crosshair lines in a scattergram chart  Valid when <code>scattergram</code> is specified for the <code>chart-type</code> attribute	In the <b>Chart Format</b> dialog box for the chart, on the <b>Crosshair</b> tab, in the <b>Line properties</b> area, the <b>weight</b> box
<code>crosshair-type</code>	Enum	Specifies whether a crosshair appears and how its location is determined in a scattergram chart  One of the following: <ul style="list-style-type: none"><li>• <code>none</code>—A crosshair does not appear in the chart.</li><li>• <code>static</code>—A crosshair appears at the location specified for the <code>crosshair-x</code> and <code>crosshair-y</code> attributes.</li><li>• <code>variable</code>—A crosshair appears at the location specified by variables referenced by the <code>crosshair-x-variable</code> and <code>crosshair-y-variable</code> attributes.</li></ul> Valid when <code>scattergram</code> is specified for the <code>chart-type</code> attribute	In the <b>Chart Format</b> dialog box for the chart, on the <b>Crosshair</b> tab, the <b>Type</b> drop-down list
<code>crosshair-x</code>	Num	When <code>static</code> is specified for the <code>crosshair-type</code> attribute, the x-coordinate of the crosshair in a scattergram chart  Valid when <code>scattergram</code> is specified for the <code>chart-type</code> attribute	In the <b>Chart Format</b> dialog box for the chart, on the <b>Crosshair</b> tab, the <b>X data point value</b> box
<code>crosshair-x-variable</code>	Ref	When <code>variable</code> is specified for the <code>crosshair-type</code> attribute, a reference to the variable that specifies the x-coordinate of the crosshair in a scattergram chart  Valid when <code>scattergram</code> is specified for the <code>chart-type</code> attribute	In the <b>Chart Format</b> dialog box for the chart, on the <b>Crosshair</b> tab, the <b>X data point value</b> box
<code>crosshair-y</code>	Num	When <code>static</code> is specified for the <code>crosshair-type</code> attribute, the y-coordinate of the crosshair in a scattergram chart  Valid when <code>scattergram</code> is specified for the <code>chart-type</code> attribute	In the <b>Chart Format</b> dialog box for the chart, on the <b>Crosshair</b> tab, the <b>Y data point value</b> box
<code>crosshair-y-variable</code>	Ref	When <code>variable</code> is specified for the <code>crosshair-type</code> attribute, a reference to the variable that specifies the y-coordinate of the crosshair in a scattergram chart  Valid when <code>scattergram</code> is specified for the <code>chart-type</code> attribute	In the <b>Chart Format</b> dialog box for the chart, on the <b>Crosshair</b> tab, the <b>Y data point value</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
custom-legend-box-size	Bool	<p>Specifies whether the size of the legend is determined by the <code>legend-height</code> and <code>legend-width</code> attributes. If <code>false</code> is specified, the size is determined automatically.</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>pie</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Custom legend box size</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>data-label-align</b>	Int	<p>The alignment of the text in the data labels</p> <p>Must be in the range 0–2, corresponding to the following settings:</p> <ul style="list-style-type: none"><li>• 0—Left</li><li>• 1—Right</li><li>• 2—Center</li></ul> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"><li>• area</li><li>• bar</li><li>• comparative-bar</li><li>• comparative-line</li><li>• floating-bar (Legacy)</li><li>• horizontal-bar</li><li>• horizontal-stacked-bar</li><li>• line</li><li>• pie</li><li>• range</li><li>• scatter</li><li>• scattergram</li><li>• stacked-bar</li></ul>	In Designer, on the <b>Format</b> menu, the <b>Paragraph Alignment</b> selection

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>data-label-border-color</code>	Color	<p>The color of the border around each data label</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>pie</code></li><li>• <code>range</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Data labels</b> tab, the <b>Line properties</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>data-label-border-style</code>	Int	<p>The line style of the border around each data label Must be in the range 0–4, corresponding to the following settings:</p> <ul style="list-style-type: none"><li>• 0— _____</li><li>• 1— — — — —</li><li>• 2— — — — —</li><li>• 3— - - - - - -</li><li>• 4— - - - - - -</li></ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• area</li><li>• bar</li><li>• comparative-bar</li><li>• comparative-line</li><li>• floating-bar (Legacy)</li><li>• horizontal-bar</li><li>• horizontal-stacked-bar</li><li>• line</li><li>• pie</li><li>• range</li><li>• scatter</li><li>• scattergram</li><li>• stacked-bar</li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Data labels</b> tab, in the <b>Line properties</b> area, the style selection box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>data-label-border-weight</code>	Int	<p>The line width, in logical units, of the border around each data label</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Data labels</b> tab, in the <b>Line properties</b> area, the <b>weight</b> box
<code>data-label-collision-avoidance</code>	Enum	<p>Specifies whether spacing of labels can be adjusted automatically so the labels do not overlap</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Do not allow label spacing to be adjusted automatically; allow labels to overlap.</li> <li>• <code>avoid</code>—Allow label spacing to be adjusted automatically to avoid overlapping labels.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Data labels</b> tab, the <b>Avoid collisions</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>data-label-display-level</code>	Enum	<p>Specifies whether only the last data point in each series is shown</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>default</code>—Show all data labels.</li> <li>• <code>last-point</code>—Show the label for only the last data point in each series.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Data labels</b> tab, the <b>Show only the last data point label</b> check box
<code>data-label-fill-color</code>	Color	<p>When <code>specified</code> is specified for the <code>data-label-fill-type</code> attribute, the color to use for a data label background</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>data-label-fill-type</code>	Enum	<p>The type of background fill used for data labels</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <code>none</code>—Use a transparent background for the data labels.</li><li>• <code>specified</code>—Fill the data labels with the color specified for the <code>data-label-fill-color</code> attribute.</li><li>• <code>match-plot-area</code>—Fill the data labels with the same color as the plot area, as specified for the <code>plot-fill-color</code> attribute.</li></ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>pie</code></li><li>• <code>range</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Data labels</b> tab, the <b>Fill type</b> radio buttons

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>data-label-font-bold</code>	Bool	<p>Specifies whether the data label font appears bold</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Select Font</b> dialog box for the data labels, the <b>Bold</b> check box
<code>data-label-font-color</code>	Color	<p>The color used for the data label text</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Select Font</b> dialog box for the data labels, the <b>Color</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>data-label-font-face</code>	Text	<p>The font used for the data labels</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Select Font</b> dialog box for the data labels, the <b>Font</b> list
<code>data-label-font-italic</code>	Bool	<p>Specifies whether the data label font appears italic</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Select Font</b> dialog box for the data labels, the <b>Italic</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>data-label-font-size</code>	Int	<p>The size, in tenths of points, of the data label font</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Select Font</b> dialog box for the data labels, the <b>Point size</b> drop-down list
<code>data-label-override</code>	Ref	Not used	
<code>data-label-placement</code>	Enum	<p>The location of the data labels relative to data points</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>above-data-points</code>—Data labels are placed above each data point.</li> <li>• <code>below-data-points</code>—Data labels are placed below each data point.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Data labels</b> tab, the <b>Placement</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>data-label-plot-area-method</code>	Enum	<p>Specifies whether to adjust the data range or label position to keep labels inside the plot area</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Allow labels to be placed outside the plot area.</li> <li>• <code>increase-range</code>—Adjust the data range so that all labels fall within the plot area.</li> <li>• <code>move-labels</code>—Adjust the position of data labels to keep them inside the plot area.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Data labels</b> tab, the <b>Keep labels inside plot area method</b> radio buttons
<code>data-label-series</code>	Enum	<p>The data series to which labels should be added in a comparative line chart</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>primary</code>—Add labels to the first data series.</li> <li>• <code>secondary</code>—Add labels to the second data series.</li> <li>• <code>both</code>—Add labels to both data series.</li> </ul> <p>Valid when <code>comparative-line</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Data labels</b> tab, the <b>Data series for labels</b> drop-down list
<code>explode-level</code>	Int	<p>The distance, expressed as a percentage of the radius of the pie chart, to explode pie slices for which <code>true</code> is specified for the <code>explode</code> attribute of the corresponding child <code>dlg:chart-series</code> element</p> <p>Valid when <code>pie</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Advanced Pie Chart Properties</b> dialog box for the chart, the <b>Explode level</b> box
<code>fill-areas</code>	Bool	<p>Specifies whether data areas in a radar chart are filled</p> <p>Valid when <code>radar</code> is specified for the <code>chart-type</code> attribute</p>	On the <b>Chart Area</b> tab of the chart properties, the <b>Fill series area</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>filter-action</b>	Enum	<p>When a setting other than none is specified for the <b>filter-method</b> attribute, specifies how to treat filtered data in a pie chart</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>discard</b>—Remove filtered values from the chart and adjust the remaining percentages to total 100.</li> <li>• <b>combine</b>—Combine filtered values into a single slice.</li> <li>• <b>combine-and-explode</b>—Combine filtered values into a single slice and explode the combined slice.</li> </ul> <p>Valid when <b>pie</b> is specified for the <b>chart-type</b> attribute</p>	In the <b>Advanced Pie Chart Properties</b> dialog box for the chart, the <b>Filter action</b> drop-down list
<b>filter-amount</b>	Int	<p>When a setting other than none is specified for the <b>filter-method</b> attribute, the threshold value or percentage for filtering each slice in a pie chart</p> <p>Valid when <b>pie</b> is specified for the <b>chart-type</b> attribute</p>	In the <b>Advanced Pie Chart Properties</b> dialog box for the chart, the <b>Filter amount</b> box
<b>filter-label</b>	Text	<p>When <b>combine</b> or <b>combine-and-explode</b> is specified for the <b>filter-action</b> attribute, the label for the combined slice in a pie chart</p> <p>Valid when <b>pie</b> is specified for the <b>chart-type</b> attribute</p>	In the <b>Advanced Pie Chart Properties</b> dialog box for the chart, the <b>Filter label</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>filter-method</code>	Enum	<p>The method used to filter slices in a pie chart. Filtered slices are discarded or combined, according to the setting of the <code>filter-action</code> attribute.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Display all slices in the chart, regardless of size.</li> <li>• <code>value</code>—Filter slices with a value smaller than the amount specified for the <code>filter-amount</code> attribute.</li> <li>• <code>value-max</code>—Filter slices with a value smaller than the amount specified for the <code>filter-amount</code> attribute, until all filtered slices total the value specified for the <code>filter-total</code> attribute.</li> <li>• <code>percent</code>—Filter slices with a percentage smaller than the amount specified for the <code>filter-amount</code> attribute.</li> <li>• <code>percent-max</code>—Filter slices with a percentage smaller than the amount specified for the <code>filter-amount</code> attribute, until all filtered slices total the percentage specified for the <code>filter-total</code> attribute.</li> </ul> <p>Valid when <code>pie</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Advanced Pie Chart Properties</b> dialog box for the chart, the <b>Filter method</b> drop-down list
<code>filter-total</code>	Int	<p>When <code>value-max</code> or <code>percent-max</code> is specified for the <code>filter-method</code> attribute, the maximum total value or percentage of filtered slices in a pie chart</p> <p>Valid when <code>pie</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Advanced Pie Chart Properties</b> dialog box for the chart, the <b>Filter total</b> box
<code>frame-rect</code>	Rect	<p>The coordinates of the plot area, relative to the design page</p> <p>Valid for all values of the <code>chart-type</code> attribute</p>	The position of the plot area within the design area

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>frame-rect-3d</b>	Rect	<p>When <code>true</code> is specified for the <code>is-3d</code> attribute, the coordinates of the three-dimensional plot area, relative to the design page</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>progress</code></li> <li>• <code>range</code></li> <li>• <code>stacked-bar</code></li> </ul>	The position of the three-dimensional plot area within the design area
<b>frame-x</b>	Int	<p>The x-coordinate of the plot area, relative to the chart object</p> <p>Valid for all values of the <code>chart-type</code> attribute</p>	The horizontal position of the plot area within the chart object
<b>frame-y</b>	Int	<p>The y-coordinate of the plot area, relative to the chart object</p> <p>Valid for all values of the <code>chart-type</code> attribute</p>	The vertical position of the plot area within the chart object

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
grid-color	Color	<p>The color of the grid lines in the chart</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, the <b>Grid line and axis</b> color well
grid-display-level	Enum	<p>The layer on which the grid lines and axis labels appear in a radar chart</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>low</code>—Grid lines and axis labels appear behind the data series line.</li> <li>• <code>medium</code>—Grid lines appear behind the data series line, and axis labels appear in front of the data series line.</li> <li>• <code>high</code>—Grid lines and axis labels appear in front of the data series line.</li> </ul> <p>Valid when <code>radar</code> is specified for the <code>chart-type</code> attribute</p> <p>The following value is not used:</p> <ul style="list-style-type: none"> <li>• <code>default</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot Area</b> tab, the <b>Grid display level</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
grid-style	Int	<p>The line style of the grid lines in the chart</p> <p>Must be in the range 0–4, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0— _____</li> <li>• 1— — — — —</li> <li>• 2— — — — —</li> <li>• 3— - - - - - -</li> <li>• 4— - - - - - -</li> </ul> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot Area</b> tab, in the <b>Grid line and axis</b> area, the style selection box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
grid-weight	Int	<p>The width, in logical units, of the grid lines in the chart</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot Area</b> tab, in the <b>Grid line and axis</b> area, the <b>weight</b> box
has-shadow-color	Color	<p>Specifies the color of the shadow in a chart. If this attribute is not defined, a shadow is not included.</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>bar</code></li> <li>• <code>calendar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>progress</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>Shadow</b> check box and color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>is-3d</code>	Bool	<p>Specifies whether the chart appears three-dimensional</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>progress</code></li> <li>• <code>range</code></li> <li>• <code>stacked-bar</code></li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>3D</b> check box
<code>label-color</code>	Enum	<p>Specifies how the font color of the data labels is determined</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>default</code>—The font color in all labels is black.</li> <li>• <code>match-series</code>—The font color in each label matches the color of the data series with which it is associated.</li> <li>• <code>set-series</code>—The font color in each label is determined by the <code>label-color</code> attribute of the associated child <code>dlg:chart-series</code> element.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>range</code></li> <li>• <code>stacked-bar</code></li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>Label color</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
label-fit	Bool	<p>Specifies whether long labels that would normally extend outside of the plot area are moved in order to stay within the plot area</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• pie</li> <li>• radar</li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Keep labels inside plot area</b> check box
label-format	Text	<p>The content of each label in the chart, using optional custom text and the following format codes:</p> <ul style="list-style-type: none"> <li>• \L—Label</li> <li>• \%—Percentage</li> <li>• \#—Value</li> <li>• \t—Left tab</li> <li>• \r—Right tab</li> <li>• \h—Hanging tab</li> <li>• \n—New line</li> </ul> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• pie</li> <li>• radar</li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, in the <b>Label</b> area, the <b>Contents</b> drop-down list and box
label-line-color	Color	<p>When on or auto is specified for the label-line-method attribute, the color of the lines drawn from labels to slices in a pie chart, or to data points in a radar chart</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• pie</li> <li>• radar</li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Line color</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
label-line-method	Enum	<p>Specifies whether lines are drawn from labels to slices in a pie chart, or to data points in a radar chart</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• off—Do not connect labels to the chart with lines.</li> <li>• on—Always connect labels to the chart with lines.</li> <li>• auto—Automatically connect labels to the chart with lines if the labels are located away from corresponding slices or data points.</li> </ul> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• pie</li> <li>• radar</li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Label line</b> drop-down list
label-line-width	Int	<p>when on or auto is specified for the label-line-method attribute, the width, in logical units, of the lines drawn from labels to slices in a pie chart, or to data points in a radar chart</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• pie</li> <li>• radar</li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Line width</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-fill-color	Color	<p>When <code>false</code> is specified for the <code>legend-fill-transparent</code> attribute, the background color of the legend</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, in the <b>Legend</b> area, the color well
legend-fill-transparent	Bool	<p>Specifies whether the background of the legend is transparent</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Background is transparent</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-font-bold	Bool	<p>Specifies whether the legend font appears bold</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• pie</li> <li>• radar</li> <li>• range</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the legend, the <b>Bold</b> check box
legend-font-color	Color	<p>The color used for the legend text</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• pie</li> <li>• radar</li> <li>• range</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the legend, the <b>Color</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-font-face	Text	<p>The font used for the legend</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• pie</li> <li>• radar</li> <li>• range</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the legend, the <b>Font</b> list
legend-font-italic	Bool	<p>Specifies whether the legend font appears italic</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• pie</li> <li>• radar</li> <li>• range</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the legend, the <b>Italic</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-font-pts	Int	<p>The size, in logical units, of the legend font in the output, calculated from the value specified for the <code>legend-font-size</code> and <code>units-per-inch</code> attributes</p> <p><b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.</p>	
legend-font-size	Int	<p>The size, in tenths of points, of the legend font</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• pie</li> <li>• radar</li> <li>• range</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the legend, the <b>Point size</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-format	Text	<p>The content of each label that appears in the legend, using optional custom text and the following format codes:</p> <ul style="list-style-type: none"> <li>• \L—Label</li> <li>• \%—Percentage</li> <li>• \#—Value</li> <li>• \t—Left tab</li> <li>• \r—Right tab</li> <li>• \h—Hanging tab</li> <li>• \n—New line</li> </ul> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• pie</li> <li>• radar</li> <li>• range</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, in the <b>Legend</b> area, the <b>Contents</b> drop-down list and box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-frame	Bool	<p>Specifies whether a border appears around the legend area</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Border</b> check box
legend-hanging-wrap	Bool	<p>When <code>true</code> is specified for the <code>legend-wrap</code> attribute, specifies whether wrapped lines of each label in the legend are indented</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Hanging wrap</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-height	Int	<p>When <code>true</code> is specified for the <code>custom-legend-box-size</code> attribute, the height, in logical units, of the legend</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Height</b> box
legend-label-order	Ref	<p>A reference to the variable that determines the order of the labels in a legend</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scattergram</code></li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>Legend label order</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-labels	Enum	<p>The source of the labels in a legend</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—Legend labels for each data series are specified for the <code>label</code> attribute of each <code>dlg:chart-series</code> child element.</li> <li>• <b>array</b>—Legend labels for all data series are provided by a single array variable, specified for the <code>label-variable</code> attribute of the first <code>dlg:chart-series</code> child element.</li> <li>• <b>per-series</b>—Legend labels for each data series are provided by a different array variable, specified for the <code>label-variable</code> attribute of each <code>dlg:chart-series</code> child element.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <b>area</b></li> <li>• <b>bar</b></li> <li>• <b>comparative-bar</b></li> <li>• <b>comparative-line</b></li> <li>• <b>floating-bar (Legacy)</b></li> <li>• <b>horizontal-bar</b></li> <li>• <b>horizontal-stacked-bar</b></li> <li>• <b>line</b></li> <li>• <b>pie</b></li> <li>• <b>radar</b></li> <li>• <b>range</b></li> <li>• <b>scattergram</b></li> <li>• <b>stacked-bar</b></li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>Legend labels</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-num-columns	Int	<p>The number of columns used to display information in the legend</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>pie</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Columns</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-original-position	Enum	<p>When <code>manual</code> is specified for the <code>legend-position</code> attribute, the position in the chart in which space is left for a manually positioned legend</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Do not leave space for a legend.</li> <li>• <code>bottom</code>—Leave space for the legend at the bottom of the chart area.</li> <li>• <code>left</code>—Leave space for the legend on the left side of the chart area.</li> <li>• <code>right</code>—Leave space for the legend on the right side of the chart area.</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <code>labels</code></li> <li>• <code>manual</code></li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the selection in the <b>Legend</b> drop-down list prior to a selection of <b>Manual</b>
legend-percentage-digits	Int	<p>The significant digits to display in percentages in the legend for a pie chart</p> <p>Valid when <code>pie</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Percentage digits</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-position	Enum	<p>Specifies whether to display the legend and the relative position of the legend in the chart area</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Do not display a legend with the chart.</li> <li>• <code>bottom</code>—Display the legend at the bottom of the chart area.</li> <li>• <code>left</code>—Display the legend on the left side of the chart area.</li> <li>• <code>right</code>—Display the legend on the right side of the chart area.</li> <li>• <code>manual</code>—Display the legend at the location specified the <code>legend-rect</code> attribute.</li> </ul> <p>The following value is not used:</p> <ul style="list-style-type: none"> <li>• <code>labels</code></li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>Legend</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-rect	Rect	<p>When <code>manual</code> is specified for the <code>legend-position</code> attribute, the coordinates of the legend, relative to the design page</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	The position of the legend within the design area
legend-reverse-order	Bool	<p>Specifies whether the order of legend entries in a comparative bar chart is reversed so that the legend entries match the order of the stacked bars</p> <p>Valid when <code>comparative-bar</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Reverse order legend entries</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-spacing	Enum	<p>Specifies the line spacing in a legend</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>auto</b>—The spacing is set automatically based on the space available.</li> <li>• <b>single</b>—Lines are single-spaced.</li> <li>• <b>one-and-half</b>—Line spacing is 1.5.</li> <li>• <b>double</b>—Lines are double-spaced.</li> <li>• <b>triple</b>—Lines are triple-spaced.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <b>area</b></li> <li>• <b>bar</b></li> <li>• <b>comparative-bar</b></li> <li>• <b>comparative-line</b></li> <li>• <b>floating-bar (Legacy)</b></li> <li>• <b>horizontal-bar</b></li> <li>• <b>horizontal-stacked-bar</b></li> <li>• <b>line</b></li> <li>• <b>pie</b></li> <li>• <b>radar</b></li> <li>• <b>range</b></li> <li>• <b>scattergram</b></li> <li>• <b>stacked-bar</b></li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Spacing</b> drop-down list

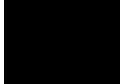
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-tab1	Int	<p>The position, in logical units, of the first tab stop in the legend. If true is specified for the legend-hanging-wrap attribute, this tab stop applies to the hanging indent.</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• pie</li> <li>• radar</li> <li>• range</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the first <b>Tab positions</b> box
legend-tab2	Int	<p>The position, in logical units, of the second tab stop in the legend</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• pie</li> <li>• radar</li> <li>• range</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the second <b>Tab positions</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-width	Int	<p>When <code>true</code> is specified for the <code>custom-legend-box-size</code> attribute, the width, in logical units, of the legend</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Width</b> box
legend-wrap	Bool	<p>Specifies whether lines of text are allowed to wrap in the legend. When <code>false</code> is specified for this attribute, a line of text that is longer than the width of the legend is truncated at the boundary of the legend.</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>pie</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Legend/Label Properties</b> dialog box for the chart, the <b>Wrap text</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-x	Int	<p>When <code>manual</code> is specified for the <code>legend-position</code> attribute, the x-coordinate of the legend, relative to the chart object</p> <p><b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.</p>	The horizontal position of the legend within the chart object
legend-y	Int	<p>When <code>manual</code> is specified for the <code>legend-position</code> attribute, the y-coordinate of the legend, relative to the chart object</p> <p><b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.</p>	The vertical position of the legend within the chart object
line-color	Color	<p>The color of the border lines around bars, slices, or dates in the chart. If this attribute is not defined, borders are not included.</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>bar</code></li> <li>• <code>calendar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>pie</code></li> <li>• <code>range</code></li> <li>• <code>stacked-bar</code></li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>Lines</b> check box and color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
line-width	Int	<p>The width, in logical units, of the border line around bars, slices, or dates in the chart</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>bar</code></li> <li>• <code>calendar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>pie</code></li> <li>• <code>range</code></li> <li>• <code>stacked-bar</code></li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>Lines width</b> box
overlay-flags	Int	<p>Specifies whether the chart has an overlay</p> <p>Must be one of the following values:</p> <ul style="list-style-type: none"> <li>• 0—The chart does not have an overlay.</li> <li>• 1—The chart has an overlay.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>bar</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>stacked-bar</code></li> <li>• <code>scattergram</code></li> </ul>	The <b>Overlay Chart Properties</b> dialog box for the chart
percentage-color	Color	Not used	
pie-edge-color	Color	<p>When <code>true</code> is specified for the <code>is-3d</code> attribute, and <code>combine</code> or <code>combine-and-explode</code> is specified for the <code>filter-action</code> attribute, the edge color of the combined slice in a pie chart</p> <p>Valid when <code>pie</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Advanced Pie Chart Properties</b> dialog box for the chart, the <b>Edge color</b> box
pie-fill-color	Color	<p>When <code>combine</code> or <code>combine-and-explode</code> is specified for the <code>filter-action</code> attribute, the fill color of the combined slice in a pie chart</p> <p>Valid when <code>pie</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Advanced Pie Chart Properties</b> dialog box for the chart, the <b>Fill color</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
pie-fill-color-effect	Int	<p>When <code>combine</code> or <code>combine-and-explode</code> is specified for the <code>filter-action</code> attribute, the hatching or pattern used for the color of the combined slice in a pie chart</p> <p>Must be in the range 0–15, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0— </li> <li>• 1— </li> <li>• 2— </li> <li>• 3— </li> <li>• 4— </li> <li>• 5— </li> <li>• 6— </li> <li>• 7— </li> <li>• 8— </li> <li>• 9— </li> <li>• 10— </li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• 11— </li> <li>• 12— </li> <li>• 13— </li> <li>• 14— </li> <li>• 15— </li> </ul> <p>Valid when <code>pie</code> is specified for the <code>chart-type</code> attribute</p>	
<code>pie-size-ratio</code>	Int	<p>Not used</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but 100 is always specified.         </div>	
<code>plot-3d-edge-fill-color</code>	Color	<p>When <code>true</code> is specified for the <code>is-3d</code> attribute, the edge color of three-dimensional plot area</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• bar</li> <li>• comparative-bar</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• progress</li> <li>• range</li> <li>• stacked-bar</li> </ul>	<p>In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, the <b>3D edge fill color</b> color well</p>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
plot-fill-color	Color	<p>The background fill color of the plot area. If this attribute is not defined, the background of the plot area is transparent.</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"><li>• area</li><li>• bar</li><li>• comparative-bar</li><li>• comparative-line</li><li>• floating-bar (Legacy)</li><li>• horizontal-bar</li><li>• horizontal-stacked-bar</li><li>• line</li><li>• radar</li><li>• range</li><li>• scatter</li><li>• scattergram</li><li>• stacked-bar</li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, the <b>Fill color</b> check box and color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
plot-frame-style	Enum	<p>Specifies whether a border appears around the plot area and on which sides it appears</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—No border appears around the plot area.</li> <li>• <b>full</b>—The plot area has a border on all four sides.</li> <li>• <b>left</b>—The plot area has a border on only the left and bottom sides.</li> </ul> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• <b>area</b></li> <li>• <b>bar</b></li> <li>• <b>comparative-bar</b></li> <li>• <b>comparative-line</b></li> <li>• <b>floating-bar (Legacy)</b></li> <li>• <b>horizontal-bar</b></li> <li>• <b>horizontal-stacked-bar</b></li> <li>• <b>line</b></li> <li>• <b>radar</b></li> <li>• <b>range</b></li> <li>• <b>scatter</b></li> <li>• <b>scattergram</b></li> <li>• <b>stacked-bar</b></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, in the <b>Border</b> area, the <b>Style</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
plot-line-color	Color	<p>When <code>full</code> or <code>left</code> is specified for the <code>plot-frame-style</code> attribute, the color of the border line around the plot area</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, the <b>Border</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
plot-line-style	Int	<p>When <code>full</code> or <code>left</code> is specified for the <code>plot-frame-style</code> attribute, the style of the border line around the plot area</p> <p>Must be in the range 0–4, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0— _____</li> <li>• 1— — — — —</li> <li>• 2— — — — —</li> <li>• 3— - - - - - -</li> <li>• 4— - - - - - -</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot Area</b> tab, in the <b>Border</b> area, the style selection box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
plot-line-weight	Int	<p>When <code>full</code> or <code>left</code> is specified for the <code>plot-frame-style</code> attribute, the width, in logical units, of the border line around the plot area</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, in the <b>Border</b> area, the <b>weight</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
plot-range-fill	Enum	<p>Specifies whether a range in the chart is filled and how it is selected</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—Do not fill a range in the chart.</li> <li>• <b>static</b>—Fill a range in the chart defined by the <code>plot-range-fill-min</code> and <code>plot-range-fill-max</code> attributes.</li> <li>• <b>variable</b>—Fill a range in the chart determined by variables referenced by the <code>plot-range-fill-min-variable</code> and <code>plot-range-fill-max-variable</code> attributes.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, in the <b>Background range fill</b> area, the <b>Type</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
plot-range-fill-axis	Enum	<p>When <code>static</code> or <code>variable</code> is specified for the <code>plot-range-fill</code> attribute, the axis to which a range fill is applied</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>x</code>—Apply the range fill to values on the x-axis. The fill appears parallel to the y-axis.</li> <li>• <code>y</code>—Apply the range fill to values on the y-axis. The fill appears parallel to the x-axis.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, in the <b>Background range fill</b> area, the <b>Axis</b> radio buttons

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
plot-range-fill-color	Color	<p>When static or variable is specified for the plot-range-fill attribute, the color of the range fill in the chart</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, in the <b>Background range fill</b> area, the <b>Color</b> color well
plot-range-fill-max	Num	<p>When static is specified for the plot-range-fill attribute, the upper boundary of the range to be filled</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, the <b>Maximum value</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
plot-range-fill-max-variable	Ref	<p>When <code>variable</code> is specified for the <code>plot-range-fill</code> attribute, a reference to the variable that specifies the upper boundary of the range to be filled</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, the <b>Maximum value</b> box
plot-range-fill-min	Num	<p>When <code>static</code> is specified for the <code>plot-range-fill</code> attribute, the lower boundary of the range to be filled</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, the <b>Minimum value</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
plot-range-fill-min-variable	Ref	<p>When <code>variable</code> is specified for the <code>plot-range-fill</code> attribute, a reference to the variable that specifies the lower boundary of the range to be filled</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, the <b>Minimum value</b> box
polygon-radar	Bool	<p>Specifies whether the plot area in a radar chart is polygon-shaped instead of circular. When <code>true</code> is specified for this attribute, the plot area is a polygon with a number of sides based on the number of data series defined for the chart. When <code>false</code> is specified for this attribute, the plot area is circular.</p> <p>Valid when <code>radar</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, the <b>Polygon radar</b> check box
show-percentage	Bool	<p>Specifies whether the percentage of the target that has been reached should be displayed on a progress chart</p> <p>Valid when <code>progress</code> is specified for the <code>chart-type</code> attribute</p>	On the <b>Chart Area</b> tab of the chart properties, the <b>Show percentage</b> check box
show-values	Bool	<p>Specifies whether the target value and the progress value should be displayed on a progress chart</p> <p>Valid when <code>progress</code> is specified for the <code>chart-type</code> attribute</p>	On the <b>Chart Area</b> tab of the chart properties, the <b>Show values</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
sort-type	Enum	<p>The sort order of the slices in a pie chart</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>none—Sort the slices according to the order of the child <code>dlg:chart-series</code> elements.</li> <li>descending—Sort the slices from largest to smallest and determine slice colors from the original order of the child <code>dlg:chart-series</code> elements.</li> <li>ascending—Sort the slices from smallest to largest and determine slice colors from the original order of the child <code>dlg:chart-series</code> elements.</li> <li>descending-style—Sort the slices from largest to smallest and determine slice colors from the individual child <code>dlg:chart-series</code> elements.</li> <li>ascending-style—Sort the slices from smallest to largest and determine slice colors from the individual child <code>dlg:chart-series</code> elements.</li> </ul> <p>Valid when <code>pie</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Advanced Pie Chart Properties</b> dialog box for the chart, the <b>Sort slices</b> drop-down list
thickness	Int	<p>When <code>true</code> is specified for the <code>is-3d</code> attribute, the depth, on a 0–50 scale, of a three-dimensional plot</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>bar</li> <li>comparative-bar</li> <li>floating-bar (Legacy)</li> <li>horizontal-bar</li> <li>horizontal-stacked-bar</li> <li>line</li> <li>pie</li> <li>progress</li> <li>range</li> <li>stacked-bar</li> </ul>	In the design area, the thickness slider on the right side of the chart object
title	Text	<p>The title that appears in the chart area</p> <p>Valid when any value except <code>calendar</code> is specified for the <code>chart-type</code> attribute</p>	On the <b>Chart Area</b> tab of the chart properties, the <b>Title</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>title-align</b>	Int	The alignment of the text in the title  Must be in the range 0–2, corresponding to the following settings: <ul style="list-style-type: none"><li>• 0—Left</li><li>• 1—Right</li><li>• 2—Center</li></ul> Valid when any value except calendar is specified for the chart-type attribute	In Designer, on the <b>Format</b> menu, the <b>Paragraph Alignment</b> selection
<b>title-font-bold</b>	Bool	Specifies whether the title font appears bold  Valid when any value except calendar is specified for the chart-type attribute	In the <b>Select Font</b> dialog box for the title, the <b>Bold</b> check box
<b>title-font-color</b>	Color	The color used for the title text  Valid when any value except calendar is specified for the chart-type attribute	In the <b>Select Font</b> dialog box for the title, the <b>Color</b> color well
<b>title-font-face</b>	Text	The font used for the title  Valid when any value except calendar is specified for the chart-type attribute	In the <b>Select Font</b> dialog box for the title, the <b>Font</b> list
<b>title-font-italic</b>	Bool	Specifies whether the title font appears italic  Valid when any value except calendar is specified for the chart-type attribute	In the <b>Select Font</b> dialog box for the title, the <b>Italic</b> check box
<b>title-font-pts</b>	Int	The size, in logical units, of the title font in the output, calculated from the value specified for the title-font-size and units-per-inch attributes	<p><b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.</p>
<b>title-font-size</b>	Int	The size, in tenths of points, of the title font  Valid when any value except calendar is specified for the chart-type attribute	In the <b>Select Font</b> dialog box for the title, the <b>Point size</b> drop-down list
<b>title-rect</b>	Rect	The coordinates of the title, relative to the design page  Valid when any value except calendar is specified for the chart-type attribute	The position of the title within the design area

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>title-variable</b>	Ref	A reference to the variable that specifies the title that appears in the chart area  Valid for all values of the <code>chart-type</code> attribute	On the <b>Chart Area</b> tab of the chart properties, the <b>Title</b> box
<b>title-x</b>	Int	The x-coordinate of the title, relative to the chart object  Valid when any value except <code>calendar</code> is specified for the <code>chart-type</code> attribute	The horizontal position of the title within the chart object
<b>title-y</b>	Int	The y-coordinate of the title, relative to the chart object  Valid when any value except <code>calendar</code> is specified for the <code>chart-type</code> attribute	The vertical position of the title within the chart object
<b>units-per-inch</b>	Int	The number of logical units per inch, used when defining the chart object. The typical value is 1000, so that a logical unit is 1/1000 of an inch.  Valid for all values of the <code>chart-type</code> attribute	
<b>use-array</b>	Bool	Specifies whether array variables specified for child <code>dlg:chart-series</code> elements provide values for multiple bars or slices in a chart. When <code>false</code> is specified for this attribute, each variable provides a single value for a single bar or slice.  Valid for the following values of the <code>chart-type</code> attribute: <ul style="list-style-type: none"><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>floating-bar (Legacy)</code></li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>pie</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>stacked-bar</code></li></ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>All values are stored in one array. Use arrays for multiple series, or Use arrays for multiple stacks</b> check box, based on the chart type

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-alternate-label	Ref	<p>A reference to the variable that provides custom label content for the x-axis</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Alternate labels</b> box
xaxis-always-display-year	Bool	<p>When time-scale is specified for the xaxis-label-method attribute, and month or quarter is specified for the xaxis-interval attribute, specifies whether the year is added to x-axis labels</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• comparative-line</li> <li>• line</li> <li>• scatter</li> <li>• scattergram</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Always display year</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-complete-time-periods	Bool	<p>When <code>time-scale</code> is specified for the <code>xaxis-label-method</code> attribute, specifies whether labels are included for a complete cycle of a time period. For example, if <code>month</code> is specified for the <code>xaxis-interval</code> attribute, the labels range from January to December, even if the data starts in February.</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Complete time periods</b> check box
xaxis-custom-format	Text	<p>When <code>0</code> is specified for the <code>xaxis-format</code> attribute, the custom format of the x-axis labels</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Custom format</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>xaxis-day-format</code>	Int	<p>When <code>time-scale</code> is specified for the <code>xaxis-label-method</code> attribute, the format of days in date-based x-axis labels</p> <p>Must be in the range 0–5, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—day month</li> <li>• 1—month day</li> <li>• 2—day/month</li> <li>• 3—month/day</li> <li>• 4—day-month</li> <li>• 5—month-day</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Days</b> drop-down list
<code>xaxis-decimal</code>	Text	<p>The decimal separator character used in numeric x-axis labels</p> <p>Valid for the following values of the <code>xaxis-format</code> attribute:</p> <ul style="list-style-type: none"> <li>• 6 (Fixed decimal)</li> <li>• 19 (Significant decimal)</li> <li>• 20 (Fixed or integer)</li> <li>• 43 (Percentage)</li> <li>• 44 (Percentage x 100)</li> <li>• 45 (Fixed decimal with currency)</li> <li>• 196 (Fixed or integer with currency)</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Decimal</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-digits	Int	<p>The number of digits that appear to the right of the decimal point in numeric x-axis labels</p> <p>Valid for the following values of the <code>xaxis-format</code> attribute:</p> <ul style="list-style-type: none"> <li>• 6 (Fixed decimal)</li> <li>• 19 (Significant decimal)</li> <li>• 20 (Fixed or integer)</li> <li>• 43 (Percentage)</li> <li>• 44 (Percentage x 100)</li> <li>• 45 (Fixed decimal with currency)</li> <li>• 196 (Fixed or integer with currency)</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• comparative-line</li> <li>• line</li> <li>• scatter</li> <li>• scattergram</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Digits</b> drop-down list
xaxis-font-bold	Bool	<p>Specifies whether the x-axis label font appears bold</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the x-axis labels, the <b>Bold</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-font-color	Color	<p>The color used for the x-axis label text</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the x-axis labels, the <b>Color</b> color well
xaxis-font-face	Text	<p>The font used for the x-axis labels</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the x-axis labels, the <b>Font</b> list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-font-italic	Bool	<p>Specifies whether the x-axis label font appears italic</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the x-axis labels, the <b>Italic</b> check box
xaxis-font-pts	Int	<p>The size, in logical units, of the x-axis font in the output, calculated from the value specified for the xaxis-font-size and units-per-inch attributes</p> <div style="border: 1px solid #ccc; padding: 5px; background-color: #f0f8ff;"> <p><b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.</p> </div>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-font-size	Int	<p>The size, in tenths of points, of the x-axis label font</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"><li>• area</li><li>• bar</li><li>• comparative-bar</li><li>• comparative-line</li><li>• floating-bar (Legacy)</li><li>• horizontal-bar</li><li>• horizontal-stacked-bar</li><li>• line</li><li>• radar</li><li>• range</li><li>• scatter</li><li>• scattergram</li><li>• stacked-bar</li></ul>	In the <b>Select Font</b> dialog box for the x-axis labels, the <b>Point size</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-format	Int	<p>When numeric-scale is specified for the xaxis-label-method, and a setting other than auto is specified for the xaxis-scale attribute, the format of numeric x-axis labels</p> <p>Must be one of the following integers, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—Custom format specified by the xaxis-custom-format attribute (valid for xaxis-scale settings integer and float)</li> <li>• 5—General number (valid for xaxis-scale settings integer, float, and currency)</li> <li>• 6—Fixed decimal (valid for xaxis-scale settings float and currency)</li> <li>• 12—Use locale specification (valid for xaxis-scale settings float and currency)</li> <li>• 19—Significant decimal (valid for xaxis-scale settings float and currency)</li> <li>• 20—Fixed or integer (valid for xaxis-scale settings float and currency)</li> <li>• 32—Alpha upper (A, B, C; valid for xaxis-scale setting integer)</li> <li>• 33—Alpha lower (a, b, c; valid for xaxis-scale setting integer)</li> <li>• 34—Roman upper (I, II, III; valid for xaxis-scale setting integer)</li> <li>• 35—Roman lower (i, ii, iii; valid for xaxis-scale setting integer)</li> <li>• 36—Text upper (ONE, TWO; valid for xaxis-scale setting integer)</li> <li>• 37—Text mixed (One, Two; valid for xaxis-scale setting integer)</li> <li>• 38—Text lower (one, two; valid for xaxis-scale setting integer)</li> <li>• 43—Percentage (valid for xaxis-scale settings integer and float)</li> <li>• 44—Percentage x 100 (valid for xaxis-scale setting float)</li> <li>• 45—Fixed decimal with currency (valid for xaxis-scale settings integer, float, and currency)</li> <li>• 62—Absolute value (valid for xaxis-scale settings integer and float)</li> <li>• 196—Fixed or integer with currency (valid for xaxis-scale settings float and currency)</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Format</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<p>currency)</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• comparative-line</li> <li>• line</li> <li>• scatter</li> <li>• scattergram</li> </ul>	
xaxis-grid	Bool	<p>Specifies whether grid lines perpendicular to the x-axis are shown in the plot area</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, the <b>Show x grid lines</b> check box
xaxis-grid-skip-interval	Int	<p>The interval of tick marks at which to add vertical grid lines on the x-axis</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• comparative-line</li> <li>• line</li> <li>• scattergram</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Grid skip interval</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-hour-format	Int	<p>When <code>time-scale</code> is specified for the <code>xaxis-label-method</code> attribute, the format of hours in date-based x-axis labels</p> <p>Must be in the range 0–3, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—12</li> <li>• 1—24</li> <li>• 2—12:00</li> <li>• 3—24:00</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Hours</b> drop-down list
xaxis-interval	Enum	<p>When <code>time-scale</code> is specified for the <code>xaxis-label-method</code> attribute, the time interval to use for x-axis labels</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>auto</code></li> <li>• <code>hour</code></li> <li>• <code>day</code></li> <li>• <code>week</code></li> <li>• <code>month</code></li> <li>• <code>quarter</code></li> <li>• <code>year</code></li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Interval</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-label-method	Enum	<p>The source of the x-axis label content</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <b>data-as-labels</b>—Use values from the data for the labels.</li><li>• <b>numeric-scale</b>—Use a numeric scale for the labels. This setting is valid if the data is provided by a floating, integer, or currency variable.</li><li>• <b>time-scale</b>—Use a time-based scale for the labels. This setting is valid if the data is provided by a date variable.</li></ul> <p>Valid for the following values of the <b>chart-type</b> attribute:</p> <ul style="list-style-type: none"><li>• <b>area</b></li><li>• <b>comparative-line</b></li><li>• <b>line</b></li><li>• <b>scatter</b></li><li>• <b>scattergram</b></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Label method</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-label-orientation	Enum	<p>The rotation of the x-axis labels</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>normal</b>—The labels are horizontal.</li> <li>• <b>face-left</b>—The labels are rotated 90 degrees clockwise.</li> <li>• <b>face-right</b>—The labels are rotated 90 degrees counter-clockwise.</li> <li>• <b>face-right-align-right</b>—The labels are rotated 90 degrees counter-clockwise and aligned with the axis.</li> <li>• <b>slant-up</b>—The labels are rotated 45 degrees counter-clockwise.</li> <li>• <b>slant-down</b>—The labels are rotated 45 degrees clockwise.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <b>area</b></li> <li>• <b>bar</b></li> <li>• <b>comparative-bar</b></li> <li>• <b>comparative-line</b></li> <li>• <b>floating-bar (Legacy)</b></li> <li>• <b>horizontal-bar</b></li> <li>• <b>horizontal-stacked-bar</b></li> <li>• <b>line</b></li> <li>• <b>radar</b></li> <li>• <b>range</b></li> <li>• <b>scatter</b></li> <li>• <b>scattergram</b></li> <li>• <b>stacked-bar</b></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Label orientation</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>xaxis-month-format</code>	Int	<p>When <code>time-scale</code> is specified for the <code>xaxis-label-method</code> attribute, the format of months in date-based x-axis labels</p> <p>Must be in the range 0–4, corresponding to the following settings:</p> <ul style="list-style-type: none"><li>• 0—1</li><li>• 1—01</li><li>• 2—J</li><li>• 3—Jan</li><li>• 4—January</li></ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>comparative-line</code></li><li>• <code>line</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Months</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-negative-style	Int	<p>The format of negative numbers in numeric x-axis labels</p> <p>Must be in the range 0–9, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—-xxx.xxx</li> <li>• 1—- xxx.xxx</li> <li>• 2—xxx.xxx-</li> <li>• 3—xxx.xxx-</li> <li>• 4—(xxx.xxx)</li> <li>• 5—( xxx.xxx )</li> <li>• 6—&lt;xxx.xxx&gt;</li> <li>• 7—&lt;xxx.xxx&gt;</li> <li>• 8—xxx,xxx CR</li> <li>• 9—cxxx,xxx</li> </ul> <p>Valid for the following values of the <code>xaxis-format</code> attribute:</p> <ul style="list-style-type: none"> <li>• 6 (Fixed decimal)</li> <li>• 19 (Significant decimal)</li> <li>• 20 (Fixed or integer)</li> <li>• 43 (Percentage)</li> <li>• 44 (Percentage x 100)</li> <li>• 45 (Fixed decimal with currency)</li> <li>• 196 (Fixed or integer with currency)</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• comparative-line</li> <li>• line</li> <li>• scatter</li> <li>• scattergram</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Negative</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-position-labels-between-lines	Bool	<p>Specifies whether labels are placed between grid lines. When <code>false</code> is specified for this attribute, labels are aligned with grid lines.</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Position labels between lines</b> check box
xaxis-quarter-format	Int	<p>When <code>time-scale</code> is specified for the <code>xaxis-label-method</code> attribute, the format of quarters in date-based x-axis labels</p> <p>Must be in the range 0–4, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—1</li> <li>• 1—q1</li> <li>• 2—Q1</li> <li>• 3—1q</li> <li>• 4—1Q</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Quarters</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-range-maximum	Int	<p>When specified is specified for the <code>xaxis-range-method</code> attribute, the upper boundary of the range of the x-axis</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Maximum</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-range-method	Enum	<p>Specifies how the range of values to display on the x-axis is selected</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>specified</b>—The range is determined by the <code>xaxis-range-minimum</code> and <code>xaxis-range-maximum</code> attributes.</li> <li>• <b>auto</b>—The range is determined automatically based on the range of the data, with an extra tick mark on each side of the chart.</li> <li>• <b>auto-0-min</b>—The upper boundary of the range is determined automatically based on the range of the data, and the lower boundary of the range is always zero.</li> <li>• <b>data</b>—The minimum and maximum values of the data are used as the upper and lower boundaries of the range.</li> <li>• <b>variable</b>—The range is determined by the values of the array variable referenced by the <code>xaxis-range-variable</code> attribute.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Range method</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-range-minimum	Int	<p>When specified is specified for the <code>xaxis-range-method</code> attribute, the lower boundary of the range of the x-axis</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Minimum</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-range-variable	Ref	<p>When <code>variable</code> is specified for the <code>xaxis-range-method</code> attribute, a reference to the variable that specifies the range of the x-axis. The variable must be an array, in which the first element represents the minimum value and the second element represents the maximum value. A third, optional element represents the number of ticks to include on the axis.</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, below the <b>Range method</b> drop-down list, the <b>variable</b> box
xaxis-scale	Enum	<p>When <code>numeric-scale</code> is specified for the <code>xaxis-label-method</code> attribute, the data type of the variable used to determine the x-axis scale</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>auto</code></li> <li>• <code>integer</code></li> <li>• <code>float</code></li> <li>• <code>currency</code></li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Scale type</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-thousands	Text	<p>The thousands separator character for numeric x-axis labels</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Thousands</b> check box and drop-down list
xaxis-tick-method	Enum	<p>Specifies how the number of tick marks is determined on the x-axis</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>auto</code>—The number of tick marks is determined automatically based on the customer data.</li> <li>• <code>specified</code>—The number of ticks is determined by the <code>xaxis-tick-number</code> attribute.</li> <li>• <code>auto-padded</code>—The number of tick marks is determined automatically based on the customer data, and the number of tick marks is padded as needed so that the data points appear inside the plot area.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Number of ticks</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-tick-number	Int	<p>When specified is specified for the <code>xaxis-tick-method</code> attribute, the number of tick marks on the x-axis</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Number of ticks</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-tick-style	Enum	<p>Specifies how ticks marks appear on the x-axis</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <b>none</b>—Tick marks do not appear.</li><li>• <b>outside</b>—Tick marks appear outside the plot area border.</li><li>• <b>cross</b>—Tick marks appear across the plot area border.</li><li>• <b>inside</b>—Tick marks appear inside the plot area border.</li></ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Tick style</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-title	Text	<p>The title for the x-axis</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, beside the <b>Title type</b> drop-down list, the <b>Title</b> box
xaxis-title-align	Int	<p>The alignment of the x-axis title</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In Designer, on the <b>Format</b> menu, the <b>Paragraph Alignment</b> selection

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-title-font-bold	Bool	<p>Specifies whether the x-axis title font appears bold</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the x-axis title, the <b>Bold</b> check box
xaxis-title-font-color	Color	<p>The color used for the x-axis title text</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the x-axis title, the <b>Color</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-title-font-face	Text	<p>The font used for the x-axis title</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the x-axis title, the <b>Font</b> list
xaxis-title-font-italic	Bool	<p>Specifies whether the x-axis title font appears italic</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the x-axis title, the <b>Italic</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-title-font-pts	Int	<p>The size, in logical units, of the x-axis title font in the output, calculated from the value specified for the <code>xaxis-title-font-size</code> and <code>units-per-inch</code> attributes</p> <p><b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.</p>	
xaxis-title-font-size	Int	<p>The size, in tenths of points, of the x-axis title font</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the x-axis title, the <b>Point size</b> dropdown list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xaxis-title-variable	Ref	<p>A reference to the variable that specifies the title that appears for the x-axis</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, beside the <b>Title type</b> drop-down list, the <b>Title</b> box
xaxis-year-format	Int	<p>When time-scale is specified for the xaxis-label-method attribute, the format of years in date-based x-axis labels</p> <p>Must be in the range 0–2, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—00</li> <li>• 1—'00</li> <li>• 2—2000</li> </ul> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• comparative-line</li> <li>• line</li> <li>• scatter</li> <li>• scattergram</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>X-axis</b> tab, the <b>Years</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xseries-variable	Ref	<p>A reference to the variable that contains x values</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"><li>• area</li><li>• bar</li><li>• comparative-line</li><li>• horizontal-bar</li><li>• horizontal-stacked-bar</li><li>• line</li><li>• range</li><li>• scatter</li><li>• scattergram</li><li>• stacked-bar</li></ul>	On the <b>Chart Area</b> tab of the chart properties, the <b>X</b> check box (where applicable) and variable box. (Note that leaving this attribute undefined is equivalent to clearing the check box.)

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
y-zero-line	Enum	<p>Specifies the type of line that is added at the zero value on the y-axis when the chart contains both positive and negative values</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—Do not add a line at the zero value.</li> <li>• <b>grid</b>—Add a line at the zero value that matches the y-axis grid lines.</li> <li>• <b>solid</b>—Add a line at the zero value that is the same color and thickness as the y-axis grid lines, but is solid regardless of the line style of the grid lines.</li> <li>• <b>old-behavior</b>—Equivalent to <b>solid</b>. This value is used internally for charts created in older versions of Exstream Design and Production and is provided only for information in exported DXF and XML (composed) output. It should not be used in imported DXF.</li> </ul> <p>Valid for the following values of the <b>chart-type</b> attribute:</p> <ul style="list-style-type: none"> <li>• <b>area</b></li> <li>• <b>bar</b></li> <li>• <b>comparative-bar</b></li> <li>• <b>comparative-line</b></li> <li>• <b>floating-bar (Legacy)</b></li> <li>• <b>horizontal-bar</b></li> <li>• <b>horizontal-stacked-bar</b></li> <li>• <b>line</b></li> <li>• <b>radar</b></li> <li>• <b>range</b></li> <li>• <b>scatter</b></li> <li>• <b>scattergram</b></li> <li>• <b>stacked-bar</b></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, the <b>Y-axis zero value line</b> drop-down list
yaxis-align	Int	<p>The alignment of the y-axis labels</p> <p>Must be in the range 0–2, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—Left-align the y-axis labels.</li> <li>• 1—Right-align the y-axis labels.</li> <li>• 2—Center-align the y-axis labels.</li> </ul>	In Designer, on the <b>Format</b> menu, the <b>Paragraph Alignment</b> selection

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-alternate-labels	Ref	<p>A reference to the variable that provides custom label content for the y-axis</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Alternate labels</b> box
yaxis-custom-format	Text	<p>A reference to the variable that provides custom label content for the y-axis</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Custom format</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>yaxis-decimal</b>	Text	<p>The decimal separator character used in numeric y-axis labels</p> <p>Valid for the following values of the <b>yaxis-format</b> attribute:</p> <ul style="list-style-type: none"> <li>• 6 (Fixed decimal)</li> <li>• 19 (Significant decimal)</li> <li>• 20 (Fixed or integer)</li> <li>• 43 (Percentage)</li> <li>• 44 (Percentage x 100)</li> <li>• 45 (Fixed decimal with currency)</li> <li>• 196 (Fixed or integer with currency)</li> </ul> <p>Valid for the following values of the <b>chart-type</b> attribute:</p> <ul style="list-style-type: none"> <li>• <b>area</b></li> <li>• <b>comparative-line</b></li> <li>• <b>line</b></li> <li>• <b>scatter</b></li> <li>• <b>scattergram</b></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Decimal</b> drop-down list
<b>yaxis-digits</b>	Int	<p>The number of digits that appear to the right of the decimal point in numeric y-axis labels</p> <p>Valid for the following values of the <b>yaxis-format</b> attribute:</p> <ul style="list-style-type: none"> <li>• 6 (Fixed decimal)</li> <li>• 19 (Significant decimal)</li> <li>• 20 (Fixed or integer)</li> <li>• 43 (Percentage)</li> <li>• 44 (Percentage x 100)</li> <li>• 45 (Fixed decimal with currency)</li> <li>• 196 (Fixed or integer with currency)</li> </ul> <p>Valid for the following values of the <b>chart-type</b> attribute:</p> <ul style="list-style-type: none"> <li>• <b>area</b></li> <li>• <b>comparative-line</b></li> <li>• <b>line</b></li> <li>• <b>scatter</b></li> <li>• <b>scattergram</b></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Digits</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-font-bold	Bool	<p>Specifies whether the y-axis label font appears bold</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the y-axis labels, the <b>Bold</b> check box
yaxis-font-color	Color	<p>The color used for the y-axis label text</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the y-axis labels, the <b>Color</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>yaxis-font-face</code>	Text	<p>The font used for the y-axis labels</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Select Font</b> dialog box for the y-axis labels, the <b>Font</b> list
<code>yaxis-font-italic</code>	Bool	<p>Specifies whether the y-axis label font appears italic</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Select Font</b> dialog box for the y-axis labels, the <b>Italic</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>yaxis-font-pts</code>	Int	<p>The size, in logical units, of the y-axis font in the output, calculated from the value specified for the <code>yaxis-font-size</code> and <code>units-per-inch</code> attributes</p> <p><b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.</p>	
<code>yaxis-font-size</code>	Int	<p>The size, in tenths of points, of the y-axis label font</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the y-axis labels, the <b>Point size</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-format	Int	<p>When <code>numeric-scale</code> is specified for the <code>yaxis-label-method</code>, and a setting other than <code>auto</code> is specified for the <code>yaxis-scale</code> attribute, the format of numeric y-axis labels</p> <p>Must be one of the following integers, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—Custom format specified by the <code>yaxis-custom-format</code> attribute (valid for <code>yaxis-scale</code> settings <code>integer</code> and <code>float</code>)</li> <li>• 5—General number (valid for <code>yaxis-scale</code> settings <code>integer</code>, <code>float</code>, and <code>currency</code>)</li> <li>• 6—Fixed decimal (valid for <code>yaxis-scale</code> settings <code>float</code> and <code>currency</code>)</li> <li>• 12—Use locale specification (valid for <code>yaxis-scale</code> settings <code>float</code> and <code>currency</code>)</li> <li>• 19—Significant decimal (valid for <code>yaxis-scale</code> settings <code>float</code> and <code>currency</code>)</li> <li>• 20—Fixed or integer (valid for <code>yaxis-scale</code> settings <code>float</code> and <code>currency</code>)</li> <li>• 32—Alpha upper (A, B, C; valid for <code>yaxis-scale</code> setting <code>integer</code>)</li> <li>• 33—Alpha lower (a, b, c; valid for <code>yaxis-scale</code> setting <code>integer</code>)</li> <li>• 34—Roman upper (I, II, III; valid for <code>yaxis-scale</code> setting <code>integer</code>)</li> <li>• 35—Roman lower (i, ii, iii; valid for <code>yaxis-scale</code> setting <code>integer</code>)</li> <li>• 36—Text upper (ONE, TWO; valid for <code>yaxis-scale</code> setting <code>integer</code>)</li> <li>• 37—Text mixed (One, Two; valid for <code>yaxis-scale</code> setting <code>integer</code>)</li> <li>• 38—Text lower (one, two; valid for <code>yaxis-scale</code> setting <code>integer</code>)</li> <li>• 43—Percentage (valid for <code>yaxis-scale</code> settings <code>integer</code> and <code>float</code>)</li> <li>• 44—Percentage <math>\times 100</math> (valid for <code>yaxis-scale</code> setting <code>float</code>)</li> <li>• 45—Fixed decimal with currency (valid for <code>yaxis-scale</code> settings <code>integer</code>, <code>float</code>, and <code>currency</code>)</li> <li>• 62—Absolute value (valid for <code>yaxis-scale</code> settings <code>integer</code> and <code>float</code>)</li> <li>• 196—Fixed or integer with currency (valid for <code>yaxis-scale</code> settings <code>float</code> and <code>currency</code>)</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Format</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<p>currency)</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• comparative-line</li> <li>• line</li> <li>• scatter</li> <li>• scattergram</li> </ul>	
yaxis-grid	Bool	<p>Specifies whether grid lines perpendicular to the y-axis are shown in the plot area</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Plot area</b> tab, the <b>Show y grid lines</b> check box
yaxis-negative-scale-factor	Int	<p>The proportion by which to reduce the negative scale on the y-axis</p> <p>Must be in the range 1–100</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• bar</li> <li>• horizontal-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Negative scale factor</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-negative-style	Int	<p>The format of negative numbers in numeric y-axis labels</p> <p>Must be in the range 0–9, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—-xxx.xxx</li> <li>• 1—- xxx.xxx</li> <li>• 2—xxx.xxx-</li> <li>• 3—xxx.xxx-</li> <li>• 4—(xxx.xxx)</li> <li>• 5—( xxx.xxx )</li> <li>• 6—&lt;xxx.xxx&gt;</li> <li>• 7—&lt;xxx.xxx&gt;</li> <li>• 8—xxx,xxx CR</li> <li>• 9—cxxx,xxx</li> </ul> <p>Valid for the following values of the <code>xaxis-format</code> attribute:</p> <ul style="list-style-type: none"> <li>• 6 (Fixed decimal)</li> <li>• 19 (Significant decimal)</li> <li>• 20 (Fixed or integer)</li> <li>• 43 (Percentage)</li> <li>• 44 (Percentage x 100)</li> <li>• 45 (Fixed decimal with currency)</li> <li>• 196 (Fixed or integer with currency)</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• comparative-line</li> <li>• line</li> <li>• scatter</li> <li>• scattergram</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Negative</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>yaxis-position</code>	Enum	<p>The side of the plot area on which the y-axis appears</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>left</code>—The y-axis appears on the left side of the plot area.</li> <li>• <code>right</code>—The y-axis appears on the right side of the plot area.</li> <li>• <code>both</code>—The y-axis appears on both sides of the plot area.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Axis position</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-range-maximum	Int	<p>When specified is specified for the <code>yaxis-range-method</code> attribute, the upper boundary of the range of the y-axis</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Maximum</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-range-method	Enum	<p>Specifies how the range of values to display on the y-axis is selected</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>specified</b>—The range is determined by the <code>yaxis-range-minimum</code> and <code>yaxis-range-maximum</code> attributes.</li> <li>• <b>auto</b>—The range is determined automatically based on the range of the data, with an extra tick mark at the top and bottom of the chart.</li> <li>• <b>auto-0-min</b>—The upper boundary of the range is determined automatically based on the range of the data, and the lower boundary of the range is always zero.</li> <li>• <b>data</b>—The minimum and maximum values of the data are used as the upper and lower boundaries of the range.</li> <li>• <b>variable</b>—The range is determined by the values of the array variable referenced by the <code>yaxis-range-variable</code> attribute.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Range method</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-range-minimum	Int	<p>When specified is specified for the <code>yaxis-range-method</code> attribute, the lower boundary of the range of the y-axis</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Minimum</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-range-variable	Ref	<p>When <code>variable</code> is specified for the <code>yaxis-range-method</code> attribute, a reference to the variable that specifies the range of the y-axis. The variable must be an array, in which the first element represents the minimum value and the second element represents the maximum value. A third, optional element represents the number of ticks to include on the axis.</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, below the <b>Range method</b> drop-down list, the <b>variable</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-reduce-magnitude	Enum	<p>Specifies whether the magnitude is reduced in the scale of the y-axis to accommodate larger numbers</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not reduce the magnitude of the y-axis values.</li> <li>• auto—Reduce the magnitude of the y-axis values so that the scale is 1 to 10.</li> <li>• auto-append—Reduce the magnitude of the y-axis values so that the scale is 1 to 10, and update the axis title to indicate the scale reduction. The axis title uses the text entered in the <b>Numeric magnitudes</b> area in the properties for each language.</li> </ul> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Reduce magnitude</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>yaxis-scale</b>	Enum	<p>When <code>numeric-scale</code> is specified for the <code>yaxis-label-method</code> attribute, the data type of the variable used to determine the y-axis scale</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>auto</code></li> <li>• <code>integer</code></li> <li>• <code>float</code></li> <li>• <code>currency</code></li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Scale type</b> drop-down list
<b>yaxis-show-labels</b>	Bool	<p>Specifies whether labels are shown on the y-axis</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar (Legacy)</code></li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Show labels on y-axis</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-thousands	Text	<p>The thousands separator character for numeric y-axis labels</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>comparative-line</code></li> <li>• <code>line</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Thousands</b> check box and drop-down list
yaxis-tick-method	Int	<p>Specifies how the number of tick marks is determined on the y-axis</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>auto</code>—The number of tick marks is determined automatically based on the customer data.</li> <li>• <code>specified</code>—The number of ticks is determined by the <code>yaxis-tick-number</code> attribute.</li> <li>• <code>auto-padded</code>—The number of tick marks is determined automatically based on the customer data, and the number of tick marks is padded as needed so that the data points appear inside the plot area.</li> </ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>area</code></li> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>comparative-line</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>line</code></li> <li>• <code>radar</code></li> <li>• <code>range</code></li> <li>• <code>scatter</code></li> <li>• <code>scattergram</code></li> <li>• <code>stacked-bar</code></li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Number of ticks</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-tick-number	Int	<p>When specified is specified for the <code>yaxis-tick-method</code> attribute, the number of tick marks on the y-axis</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Number of ticks</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>yaxis-tick-style</code>	Enum	<p>Specifies where ticks marks appear on the y-axis</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <code>none</code>—Tick marks do not appear.</li><li>• <code>outside</code>—Tick marks appear outside the plot area border.</li><li>• <code>cross</code>—Tick marks appear across the plot area border.</li><li>• <code>inside</code>—Tick marks appear inside the plot area border.</li></ul> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"><li>• <code>area</code></li><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>comparative-line</code></li><li>• <code>floating-bar</code> (Legacy)</li><li>• <code>horizontal-bar</code></li><li>• <code>horizontal-stacked-bar</code></li><li>• <code>line</code></li><li>• <code>radar</code></li><li>• <code>range</code></li><li>• <code>scatter</code></li><li>• <code>scattergram</code></li><li>• <code>stacked-bar</code></li></ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, the <b>Tick style</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>yaxis-title</b>	Text	<p>The title for the y-axis</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, beside the <b>Title type</b> drop-down list, the <b>Title</b> box
<b>yaxis-title-align</b>	Int	<p>The alignment of the y-axis title</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In Designer, on the <b>Format</b> menu, the <b>Paragraph Alignment</b> selection

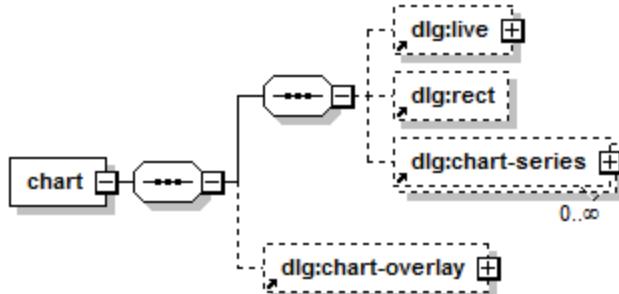
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-title-font-bold	Bool	<p>Specifies whether the y-axis title font appears bold</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the y-axis title, the <b>Bold</b> check box
yaxis-title-font-color	Color	<p>The color used for the y-axis title text</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the y-axis title, the <b>Color</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-title-font-face	Text	<p>The font used for the y-axis title</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the y-axis title, the <b>Font</b> list
yaxis-title-font-italic	Bool	<p>Specifies whether the y-axis title font appears italic</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the y-axis title, the <b>Italic</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-title-font-pts	Int	<p>The size, in logical units, of the y-axis title font in the output, calculated from the value specified for the <code>yaxis-title-font-size</code> and <code>units-per-inch</code> attributes</p> <p><b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.</p>	
yaxis-title-font-size	Int	<p>The size, in tenths of points, of the y-axis title font</p> <p>Valid for the following values of the <code>chart-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Select Font</b> dialog box for the y-axis title, the <b>Point size</b> dropdown list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
yaxis-title-variable	Ref	<p>A reference to the variable that specifies the title that appears for the y-axis</p> <p>Valid for the following values of the chart-type attribute:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• radar</li> <li>• range</li> <li>• scatter</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	In the <b>Chart Format</b> dialog box for the chart, on the <b>Y-axis</b> tab, beside the <b>Title type</b> drop-down list, the <b>Title</b> box

## Structure



## Example

```

<dlg:chart alternating-xy="false" anchor="t1" border="none"
brush="true" brush-fill-color="rgb(0,0,192)" can-split="false"
chart-type="line" current-angle="0" delay-comp="none"
design-var-ndx="0" flip-h="false" flip-v="false" flow-around="no"
flow-break="auto" frame-rect="1323.00lu 1836.00lu 4205.00lu
5117.00lu" frame-x="1086" frame-y="323" grid-color="rgb(0,0,0)"
grid-style="4" grid-weight="1" h-auto-size="false"
ignore-relative="no" is-3d="false" language="Language|0|"
title-variable="yaxis-title-variable"/>
  
```

```
legend-position="none" lock-proportions="false"
meta-props-options="do-not-read" min-height="0" pen="true"
pen-color="rgb(0,0,0)" pen-style="solid" pen-width="1lu"
plot-frame-style="full" plot-line-color="rgb(0,0,0)"
plot-line-style="0" plot-line-weight="1" plot-range-fill="none"
pos-rel-to-above="0" reference-name="Chart" shadow="none"
title="Charges" title-align="2" title-font-bold="false"
title-font-color="rgb(0,0,0)" title-font-face="Times New Roman"
title-font-italic="false" title-font-pts="174" title-font-size="125"
units-per-inch="1000" v-auto-size="true"
xaxis-always-display-year="false" xaxis-complete-time-periods="true"
xaxis-day-format="3" xaxis-font-bold="false"
xaxis-font-color="rgb(0,0,0)" xaxis-font-face="Times New Roman"
xaxis-font-italic="false" xaxis-font-pts="139" xaxis-font-size="100"
xaxis-grid="true" xaxis-grid-skip-interval="0" xaxis-hour-format="0"
xaxis-interval="auto" xaxis-label-method="time-scale"
xaxis-label-orientation="normal" xaxis-month-format="3"
xaxis-position-labels-between-lines="false" xaxis-quarter-format="0"
xaxis-range-method="auto" xaxis-tick-style="outside"
xaxis-title="Date" xaxis-title-align="1"
xaxis-title-font-bold="false" xaxis-title-font-color="rgb(0,0,0)"
xaxis-title-font-face="Times New Roman"
xaxis-title-font-italic="false" xaxis-title-font-pts="139"
xaxis-title-font-size="100" xaxis-year-format="0"
xseries-variable="Variable|564|CD_Date" y-zero-line="none"
yaxis-align="1" yaxis-font-bold="false"
yaxis-font-color="rgb(0,0,0)" yaxis-font-face="Times New Roman"
yaxis-font-italic="false" yaxis-font-pts="139" yaxis-font-size="100"
yaxis-format="12" yaxis-grid="true" yaxis-position="left"
yaxis-range-method="auto" yaxis-reduce-magnitude="none"
yaxis-scale="currency" yaxis-show-labels="true"
yaxis-tick-method="0" yaxis-tick-style="none" yaxis-title="Amount"
yaxis-title-align="1" yaxis-title-font-bold="false"
yaxis-title-font-color="rgb(0,0,0)" yaxis-title-font-face="Times New
Roman" yaxis-title-font-italic="false" yaxis-title-font-pts="139"
yaxis-title-font-size="100">
    <dlg:rect bottom="333.00pt" left="54.00pt" right="369.00pt"
    top="72.00pt"/>
    <dlg:chart-series color="rgb(255,0,0)" color-effect="0" index="1"
    line-method="0" line-style="0" line-symbol="0" line-weight="1"
    variable="Variable|572|CD_Total_Charges"/>
    <dlg:chart-series color="rgb(0,255,0)" color-effect="0" index="2"
    line-method="0" line-style="0" line-symbol="0" line-weight="1"
    variable="Variable|571|CD_Additional_Charges"/>
</dlg:chart>
```

## 4.2.9 chart-overlay (dlg:chart-overlay)

The `dlg:chart-overlay` element represents the overlay added to a bar chart, floating bar chart, stacked bar chart, or scattergram chart. A line chart can be overlaid on a bar chart, stacked bar chart, or floating bar chart, and a label (scatter) chart can be overlaid on a scattergram chart.

**Note:** In Exstream versions 9.5.201 and later, the functionality of the floating bar chart has been merged with that of the stacked bar chart. The floating bar chart type is still supported for the import of legacy DXF files, and for exporting to DXF from a legacy design containing floating bar charts. If you edit and save an existing floating bar chart in Designer, it will be automatically converted to a stacked bar chart with overlay, and any new export to DXF from that point forward will contain the stacked bar chart type.

To use the `dlg:chart-overlay` element, the `chart-type` attribute of the parent `dlg:chart` element must be either `bar`, `floating-bar` (Legacy), `stacked-bar`, or `scattergram`, and the `overlay-flags` attribute must be `1`.

### Parents

`dlg:chart`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>alternating-xy</code>	Bool	Specifies whether the variables used for each child <code>dlg:chart-series</code> element in a line chart contain both x and y values in an alternating series ( <code>x1, y1, x2, y2</code> , and so on). When <code>false</code> is specified for this attribute, a variable referenced by the <code>xseries-variable</code> attribute can contain x values.  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Overlay Chart Properties</b> dialog box for the chart, the <b>Arrays alternate x/y data values</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>caption-orientation</code>	Enum	<p>The relative position of the captions in a label (scatter) chart</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>normal</code>—The caption text appears above each data point.</li> <li><code>face-left</code>—The caption text appears above each data point, rotated 90 degrees clockwise.</li> <li><code>face-right</code>—The caption text appears above each data point, rotated 90 degrees counter-clockwise.</li> <li><code>normal-caption-below</code>—The caption text appears below each data point.</li> <li><code>face-left-caption-below</code>—The caption text appears below each data point, rotated 90 degrees clockwise.</li> <li><code>face-right-caption-below</code>—The caption text appears below each data point, rotated 90 degrees counter-clockwise.</li> </ul> <p>Valid when <code>scatter</code> is specified for the <code>chart-type</code> attribute</p>	On the <b>Chart Area</b> tab of the chart properties, the <b>Caption orientation</b> drop-down list
<code>chart-type</code>	Enum	<p>The type of chart defined by the element, which is restricted by the type of the parent chart</p> <p>Only the following settings are valid:</p> <ul style="list-style-type: none"> <li>When <code>bar</code>, <code>floating-bar</code> (Legacy), or <code>stacked-bar</code> is specified for the <code>chart-type</code> attribute of the parent <code>dlg:chart</code> element, <code>line</code> must be specified for this attribute.</li> <li>When <code>scattergram</code> is specified for the <code>chart-type</code> attribute of the parent <code>dlg:chart</code> element, <code>scatter</code> must be specified for this attribute.</li> </ul>	In the <b>Overlay Chart Properties</b> dialog box for the chart, the <b>Chart type</b> box (depends on the parent chart type and cannot be edited in Designer)
<code>custom-legend-box-size</code>	Bool	<p>Specifies whether the size of the overlay legend is determined by the <code>legend-height</code> and <code>legend-width</code> attributes. When <code>false</code> is specified for this attribute, the size is determined automatically.</p> <p>Valid when <code>line</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, the <b>Custom legend box size</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
frame-rect	Rect	The coordinates of the overlay plot area, relative to the design page. If specified, this should be the same value as that specified for the <code>frame-rect</code> attribute of the parent <code>dlg:chart</code> element.	The position of the overlay plot area within the design area
legend-fill-color	Color	When <code>false</code> is specified for the <code>legend-fill-transparent</code> attribute, the background color of the overlay legend  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, in the <b>Legend</b> area, the color well
legend-fill-transparent	Bool	Specifies whether the background of the overlay legend is transparent  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, the <b>Background is transparent</b> check box
legend-font-bold	Bool	Specifies whether the overlay legend font appears bold  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Select Font</b> dialog box for the overlay legend, the <b>Bold</b> check box
legend-font-color	Color	The color used for the overlay legend text  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Select Font</b> dialog box for the overlay legend, the <b>Color</b> color well
legend-font-face	Text	The font used for the overlay legend  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Select Font</b> dialog box for the overlay legend, the <b>Font</b> list
legend-font-italic	Bool	Specifies whether the overlay legend font appears italic  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Select Font</b> dialog box for the overlay legend, the <b>Italic</b> check box
legend-font-pts	Int	The size, in logical units, of the legend font in the output, calculated from the value specified for the <code>legend-font-size</code> and <code>units-per-inch</code> attributes  <b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-font-size	Int	The size, in tenths of points, of the overlay legend font  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Select Font</b> dialog box for the overlay legend, the <b>Point size</b> box
legend-format	Text	The content of each label that appears in the overlay legend, using optional custom text and the following format codes: <ul style="list-style-type: none"><li>• <code>\L</code>—Label</li><li>• <code>\%</code>—Percentage</li><li>• <code>\#</code>—Value</li><li>• <code>\t</code>—Left tab</li><li>• <code>\r</code>—Right tab</li><li>• <code>\h</code>—Hanging tab</li><li>• <code>\n</code>—New line</li></ul> Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, the <b>Contents</b> drop-down list and box
legend-frame	Bool	Specifies whether a border appears around the overlay legend area  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, the <b>Border</b> check box
legend-hanging-wrap	Bool	When <code>true</code> is specified for the <code>legend-wrap</code> attribute, specifies whether wrapped lines of each label in the overlay legend are indented  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, the <b>Hanging wrap</b> check box
legend-height	Int	When <code>true</code> is specified for the <code>custom-legend-box-size</code> attribute, the height, in logical units, of the overlay legend  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, the <b>Height</b> box
legend-label-order	Ref	A reference to the variable that determines the order of labels in the overlay legend  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Overlay Chart Properties</b> dialog box for the chart, the <b>Legend label order</b> box

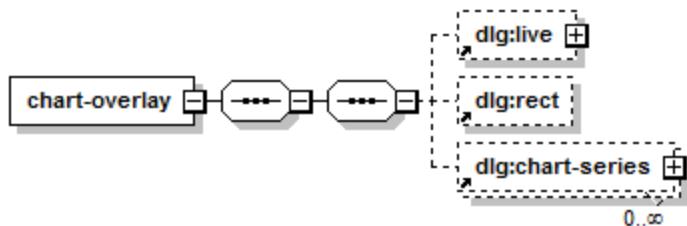
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-labels	Enum	<p>The source of the labels in the overlay legend</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Legend labels for each data series are specified for the <code>label</code> attribute of each <code>dlg:chart-series</code> child element.</li> <li>• array—Legend labels for all data series are provided by a single array variable, specified for the <code>label-variable</code> attribute of the first <code>dlg:chart-series</code> child element.</li> <li>• per-series—Legend labels for each data series are provided by a different array variable, specified for the <code>label-variable</code> attribute of each <code>dlg:chart-series</code> child element.</li> </ul> <p>Valid when <code>line</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Overlay Chart Properties</b> dialog box for the chart, the <b>Legend labels</b> drop-down list
legend-num-columns	Int	<p>The number of columns used to display information in the overlay legend</p> <p>Valid when <code>line</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, the <b>Columns</b> drop-down list
legend-original-position	Enum	<p>When <code>manual</code> is specified for the <code>legend-position</code> attribute, the position in the chart in which space is left for the manually positioned legend</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not leave space for a legend.</li> <li>• bottom—Leave space for the legend at the bottom of the chart area.</li> <li>• left—Leave space for the legend on the left side of the chart area.</li> <li>• right—Leave space for the legend on the right side of the chart area.</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <code>labels</code></li> <li>• <code>manual</code></li> </ul> <p>Valid when <code>line</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Overlay Chart Properties</b> dialog box for the chart, the selection in the <b>Legend</b> drop-down list prior to a selection of <b>Manual</b>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-position	Enum	<p>Specifies whether to display the overlay legend and the relative position of the overlay legend in the chart area</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>none—Do not display a legend with the chart.</li> <li>bottom—Display the legend at the bottom of the chart area.</li> <li>left—Display the legend on the left side of the chart area.</li> <li>right—Display the legend on the right side of the chart area.</li> <li>manual—Display the legend at the location specified for either the <code>legend-rect</code> attribute, or the <code>legend-x</code> and <code>legend-y</code> attributes.</li> </ul> <p>The following value is not used:</p> <ul style="list-style-type: none"> <li>labels</li> </ul> <p>Valid when <code>line</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Overlay Chart Properties</b> dialog box for the chart, the <b>Legend</b> drop-down list
legend-rect	Rect	<p>The coordinates of the overlay legend, relative to the design page, when <code>manual</code> is specified for the <code>legend-position</code> attribute</p> <p>Valid when <code>line</code> is specified for the <code>chart-type</code> attribute</p>	The position of the overlay legend within the design area
legend-reverse-order	Bool	Not used	
legend-spacing	Enum	<p>Specifies the line spacing in the overlay legend</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>auto—The spacing is set automatically based on the space available.</li> <li>single—Lines are single-spaced.</li> <li>one-and-half—Line spacing is 1.5.</li> <li>double—Lines are double-spaced.</li> <li>triple—Lines are triple-spaced.</li> </ul> <p>Valid when <code>line</code> is specified for the <code>chart-type</code> attribute</p>	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, the <b>Spacing</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
legend-tab1	Int	The position, in logical units, of the first tab stop in the overlay legend. If <code>true</code> is specified for the <code>legend-hanging-wrap</code> attribute, this tab stop applies to the hanging indent.  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, the first <b>Tab positions</b> box
legend-tab2	Int	The position, in logical units, of the second tab stop in the overlay legend  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, the second <b>Tab positions</b> box
legend-width	Int	When <code>true</code> is specified for the <code>custom-legend-box-size</code> attribute, the width, in logical units, of the overlay legend  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, the <b>Width</b> box
legend-wrap	Bool	Specifies whether lines of text are allowed to wrap in the overlay legend. When <code>false</code> is specified for this attribute, a line of text that is longer than the width of the legend is truncated at the boundary of the legend.  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	In the <b>Legend/Label Properties</b> dialog box for the chart overlay, the <b>Wrap text</b> check box
legend-x	Int	When <code>manual</code> is specified for the <code>legend-position</code> attribute, the x-coordinate of the overlay legend, relative to the chart object  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	The horizontal position of the overlay legend within the chart object
legend-y	Int	When <code>manual</code> is specified for the <code>legend-position</code> attribute, the y-coordinate of the overlay legend, relative to the chart object  Valid when <code>line</code> is specified for the <code>chart-type</code> attribute	The vertical position of the overlay legend within the chart object
units-per-inch	Int	The number of logical units per inch, used when defining the chart object. The typical value is <code>1000</code> , so that a logical unit is <code>1/1000</code> of an inch.  Valid for all values of the <code>chart-type</code> attribute	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
xseries-variable	Ref	A reference to the variable that contains x values  Valid when scatter is specified for the chart-type attribute	On the <b>Chart Area</b> tab of the chart properties, the <b>X</b> check box (where applicable) and variable box (Note that leaving this attribute undefined is equivalent to clearing the check box.)

## Structure



## Example

```
<dlg:chart anchor="t1" bar-label-type="none" bar-percent-size="80"
baseline="Variable|0|" border="none" brush="true"
brush-fill-color="rgb(0,0,192)" can-split="false"
chart-type="stacked-bar" current-angle="0" data-label-align="1"
data-label-font-bold="false" data-label-font-color="rgb(0,0,0)"
data-label-font-face="Times New Roman" data-label-font-italic="false"
data-label-font-size="100" delay-comp="none" design-var-ndx="0"
flip-h="false" flip-v="false" flow-around="no" flow-break="auto"
frame-rect="1206.00lu 1125.00lu 4750.00lu 5583.00lu" frame-x="500"
frame-y="331" grid-color="rgb(0,0,0)" grid-style="4" grid-weight="1"
h-auto-size="false" ignore-relative="no" is-3d="false"
language="Language|0|" legend-position="none" line-color="rgb(0,0,0)"
line-width="1" lock-proportions="false" meta-props-options="do-not-read"
min-height="0" overlay-flags="1" pen="true" pen-color="rgb(0,0,0)"
pen-style="solid" pen-width="1lu" plot-frame-style="full"
plot-line-color="rgb(0,0,0)" plot-line-style="0" plot-line-weight="1"
plot-range-fill="none" pos-rel-to-above="0" reference-name="Chart"
shadow="none" show-percentage="false" units-per-inch="1000"
use-array="true" v-auto-size="true" xaxis-font-bold="false"
xaxis-font-color="rgb(0,0,0)" xaxis-font-face="Times New Roman"
xaxis-font-italic="false" xaxis-font-pts="139" xaxis-font-size="100"
xaxis-grid="true" xaxis-label-method="data-as-labels"
xaxis-label-orientation="normal" xaxis-range-method="auto"
xaxis-tick-method="auto" xaxis-tick-style="none"
xseries-variable="Variable|564|CD_Date" y-zero-line="none"
yaxis-align="1" yaxis-font-bold="false" yaxis-font-color="rgb(0,0,0)"
yaxis-font-face="Times New Roman" yaxis-font-italic="false"
yaxis-font-pts="139" yaxis-font-size="100" yaxis-grid="true"
yaxis-position="left" yaxis-range-method="auto"
yaxis-reduce-magnitude="none" yaxis-scale="auto"
yaxis-show-labels="true" yaxis-tick-method="0" yaxis-tick-style="none">
    <dlg:rect bottom="369.00pt" left="45.00pt" right="423.00pt"
    top="63.00pt"/>
    <dlg:chart-series color="rgb(0,0,160)" color-effect="0" index="1"
    variable="Variable|569|CD_Minutes_Used"/>
    <dlg:chart-series color="rgb(0,128,192)" color-effect="0" index="2"
    variable="Variable|563|Usage_Minutes"/>
    <dlg:chart-overlay alternating-xy="false" chart-type="line"
    frame-rect="1206.00lu 2017.00lu 4750.00lu 4691.00lu"
    legend-position="none" units-per-inch="1000">
        <dlg:chart-series color="rgb(0,255,0)" color-effect="0" index="1"
        line-method="0" line-style="0" line-symbol="0" line-weight="1"
        variable="Variable|555|Base_Charges"/>
    </dlg:chart-overlay>
</dlg:chart>
```

## 4.2.10 chart-series (dlg:chart-series)

The `dlg:chart-series` element represents a data series within a chart or chart overlay.

Multiple `dlg:chart-series` elements represent data in different ways depending on the value of the `chart-type` attribute of the parent element, as shown in the following table:

How the `dlg:chart-series` element represents data

For these values of the <code>chart-type</code> attribute of the parent element	Subsequent <code>dlg:chart-series</code> elements represent data in this way
<ul style="list-style-type: none"><li>area</li><li>bar</li><li>calendar</li><li>comparative-bar</li><li>floating-bar (Legacy)</li><li>horizontal-bar</li><li>horizontal-stacked-bar</li><li>line</li><li>pie</li><li>radar</li><li>scattergram</li><li>stacked-bar</li></ul>	Each <code>dlg:chart-series</code> element represents an independent data series, correlating to the numbered data series variable boxes in Designer.
comparative-line	The <code>dlg:chart-series</code> elements for which 1 and 2 are specified for the <code>index</code> attribute represent the two data series for comparison, correlating to the data series variable boxes in Designer. The <code>edge-color</code> attribute identifies the color of each line.  The <code>dlg:chart-series</code> element for which 3 is specified for the <code>index</code> attribute represents the color of the shaded area between the first two series, correlating to the <b>Shaded area</b> color well in Designer. Only the <code>color</code> , <code>color-effect</code> , and <code>index</code> attributes should be defined for this element.
progress	The <code>dlg:chart-series</code> element for which 1 is specified for the <code>index</code> attribute represents the "goal" value.  The <code>dlg:chart-series</code> element for which 2 is specified for the <code>index</code> attribute represents the "actual" value.
range	The <code>dlg:chart-series</code> elements for which 1 and 2 are specified for the <code>index</code> attribute represent the two data series that determine the range. The color of the bars is determined by the <code>color</code> attribute of the <code>dlg:chart-series</code> element for which 1 is specified for the <code>index</code> attribute.

### How the `dlg:chart-series` element represents data, continued

For these values of the <code>chart-type</code> attribute of the parent element	Subsequent <code>dlg:chart-series</code> elements represent data in this way
<code>scatter</code>	<p>The <code>dlg:chart-series</code> element for which 1 is specified for the <code>index</code> attribute represents the y-coordinate of each data point.</p> <p>The <code>dlg:chart-series</code> element for which 2 is specified for the <code>index</code> attribute represents the symbol used for each data point.</p> <p>The <code>dlg:chart-series</code> element for which 3 is specified for the <code>index</code> attribute represents the caption of each data point.</p>

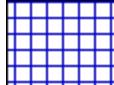
## Parents

`dlg:chart`  
`dlg:chart-overlay`

## Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>bar-label</code>	Ref	<p>When <code>per-series</code> is specified for the <code>bar-label-type</code> attribute of the parent <code>dlg:chart</code> element, a reference to the variable that provides the bar label for the data series</p> <p>Valid for the following values of the <code>chart-type</code> attribute of the parent <code>dlg:chart</code> element:</p> <ul style="list-style-type: none"><li>• <code>bar</code></li><li>• <code>comparative-bar</code></li><li>• <code>range</code></li></ul>	On the <b>Chart Area</b> tab of the chart properties, the variable box in the <b>Bar labels</b> column beside each data series
<code>color</code>	Color	The color of the data series (line, bar, area, slice, or calendar day)	On the <b>Chart Area</b> tab of the chart properties, the color well beside each data series in the <b>Area</b> column

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
color-effect	Int	<p>The hatching or pattern used for the color of the data series</p> <p>Must be in the range 0–15, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0— </li> <li>• 1— </li> <li>• 2— </li> <li>• 3— </li> <li>• 4— </li> <li>• 5— </li> <li>• 6— </li> <li>• 7— </li> <li>• 8— </li> <li>• 9— </li> <li>• 10— </li> <li>• 11— </li> </ul>	The <b>Fill Effects</b> dialog box for the data series

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• 12—</li> <li>• 13—</li> <li>• 14—</li> <li>• 15—</li> </ul>	
edge-color	Color	<p>The edge color of the data series</p> <p>Applies as follows for the listed values of the <code>chart-type</code> attribute of the parent <code>dlg:chart</code> element:</p> <ul style="list-style-type: none"> <li>• area—The edge color of the area identified by the data series</li> <li>• calendar—The text color of the date identified by the data series</li> <li>• comparative-line—The line color of the data series</li> <li>• radar—The edge color of the area identified by the data series</li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the color well beside each data series in the <b>Edge</b> , <b>Line</b> , or <b>Text</b> column
explode	Bool	<p>Specifies whether to explode or use only a line for a data series, depending on the chart type</p> <p>Applies as follows for the listed values of the <code>chart-type</code> attribute of the parent <code>dlg:chart</code> element:</p> <ul style="list-style-type: none"> <li>• area—Specifies whether only a line is displayed for the data series. When <code>true</code> is specified for this attribute, the area is not filled, and the <code>color</code> attribute is ignored.</li> <li>• calendar—Specifies whether the date for the data series is exploded from the calendar</li> <li>• pie—Specifies whether the slice for the data series is exploded from the pie chart</li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the check box beside each data series in the <b>Line</b> or >> column

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
index	Int	<p>The index number of the data series, which determines the order of the series and the order that the series appear in the legend if it is included in the chart</p> <p>For certain chart types, series with certain index numbers determine the properties of the chart. For more information about how this element represents data based on the value specified for the <code>chart-type</code> attribute of the parent element, see "<a href="#">"chart-series (dlg:chart-series)" on page 254.</a></p>	
label	Text	<p>When none is specified for the <code>legend-labels</code> attribute of the parent <code>dlg:chart</code> element, the static label for the data series</p> <p>Valid for the following values of the <code>chart-type</code> attribute of the parent <code>dlg:chart</code> element:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• bar</li> <li>• comparative-bar</li> <li>• comparative-line</li> <li>• floating-bar (Legacy)</li> <li>• horizontal-bar</li> <li>• horizontal-stacked-bar</li> <li>• line</li> <li>• pie</li> <li>• radar</li> <li>• range</li> <li>• scattergram</li> <li>• stacked-bar</li> </ul>	<p>On the <b>Chart Area</b> tab of the chart properties, the box beside each data series in the <b>Legend labels</b> column when <b>Static</b> is selected from the <b>Legend labels</b> drop-down list</p>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
label-color	Color	<p>The color of the data labels in a bar chart</p> <p>Valid for the following values of the <code>chart-type</code> attribute of the parent <code>dlg:chart</code> element:</p> <ul style="list-style-type: none"> <li>• <code>bar</code></li> <li>• <code>comparative-bar</code></li> <li>• <code>floating-bar</code> (Legacy)</li> <li>• <code>horizontal-bar</code></li> <li>• <code>horizontal-stacked-bar</code></li> <li>• <code>range</code></li> <li>• <code>stacked-bar</code></li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the color well beside each data series in the <b>Data labels</b> column
label-variable	Ref	A reference to the variable that provides the data labels for the data series	On the <b>Chart Area</b> tab of the chart properties, the variable selection box beside each data series in the <b>Legend labels</b> column when <b>Each is in different variables</b> is selected from the drop-down list, or in the single variable selection box when <b>All labels are in one array</b> is selected from the drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
line-method	Int	<p>Specifies the line style used in the chart</p> <p>Must be in the range 0–4, corresponding to the following settings (with the corresponding selection for the Exstream Design and Production setting listed for each):</p> <ul style="list-style-type: none"> <li>• 0—Place a connected line between data points on the chart. ( <a href="#">Line</a>)</li> <li>• 1—Place a horizontal line across each data point on the chart, connected by vertical lines between the data points, resulting in a stepped line. When area is specified for the chart-type attribute of the parent <a href="#">dlg:chart</a> element, the area between the line and the bottom of the chart is filled. ( <a href="#">Step</a>)</li> <li>• 2—Place a horizontal line across each data point on the chart, connected by vertical lines between the data points, resulting in a stepped line. When area is specified for the chart-type attribute of the parent <a href="#">dlg:chart</a> element, the area between the line and zero is filled. ( <a href="#">StepFill0</a>)</li> <li>• 3—Place a short horizontal line across each data point on the chart. ( <a href="#">Cap</a>)</li> <li>• 4—Place a connected line between data points on the chart and force the data series to start at the first nonzero value in the data. ( <a href="#">Line0</a>)</li> </ul> <p>Valid for the following values of the chart-type attribute of the parent <a href="#">dlg:chart</a> element:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• comparative-line</li> <li>• line</li> <li>• scattergram</li> </ul>	On the <b>Chart Area</b> tab of the chart properties, the drop-down list beside each data series in the <b>Line style</b> column

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
line-style	Int	<p>The line style for the data series</p> <p>Must be in the range 0–4, corresponding to the following settings:</p> <ul style="list-style-type: none"><li>• 0— —————</li><li>• 1— — - - - -</li><li>• 2— - - - - -</li><li>• 3— - - - - - -</li><li>• 4— - - - - - -</li></ul> <p>Valid for the following values of the chart-type attribute of the parent <code>dlg:chart</code> element:</p> <ul style="list-style-type: none"><li>• area</li><li>• comparative-line</li><li>• line</li><li>• radar</li><li>• scattergram</li></ul>	In the <b>Chart Line Style</b> dialog box for the data series, the <b>Line style</b> selection area

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
line-symbol	Int	<p>The symbol used to represent data points on the line</p> <p>Must be in the range 0–11, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—None</li> <li>• 1—</li> <li>• 2—</li> <li>• 3—</li> <li>• 4—</li> <li>• 5—</li> <li>• 6—</li> <li>• 7—</li> <li>• 8—</li> <li>• 9—</li> <li>• 10—</li> <li>• 11—</li> </ul> <p>Valid for the following values of the chart-type attribute of the parent <code>dlg:chart</code> element:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• comparative-line</li> <li>• line</li> <li>• radar</li> <li>• scattergram</li> </ul>	In the <b>Chart Line Style</b> dialog box for the data series, the <b>Symbol</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
line-symbol-size	Int	<p>The size, in logical units, of the symbol used for data points on the line</p> <p>Valid for the following values of the chart-type attribute of the parent <code>dlg:chart</code> element:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• comparative-line</li> <li>• line</li> <li>• radar</li> <li>• scattergram</li> </ul>	In the <b>Chart Line Style</b> dialog box for the data series, the <b>Symbol size</b> box
line-weight	Int	<p>The width, in logical units, of the data series line</p> <p>Valid for the following values of the chart-type attribute of the parent <code>dlg:chart</code> element:</p> <ul style="list-style-type: none"> <li>• area</li> <li>• comparative-line</li> <li>• line</li> <li>• radar</li> <li>• scattergram</li> </ul>	In the <b>Chart Line Style</b> dialog box for the data series, the <b>Line weight</b> box
variable	Ref	<p>A reference to the variable that provides the data for the data series</p> <p>Valid for all values of the chart-type attribute</p>	On the <b>Chart Area</b> tab of the chart properties, the variable box beside each data series

## Structure



## Example

```

<dlg:chart-series color="rgb(255,0,0)" color-effect="0" index="1"
line-method="0" line-style="0" line-symbol="0" line-weight="1"
variable="Variable|572|CD_Total_Charges"/>
<dlg:chart-series color="rgb(0,255,0)" color-effect="0" index="2"
line-method="0" line-style="0" line-symbol="0" line-weight="1"
variable="Variable|571|CD_Additional_Charges"/>

```

## 4.2.11 composed-chart (dlg:composed-chart)

The `dlg:composed-chart` element contains a chart in XML (composed) output from the engine. This element is not used in imported DXF.

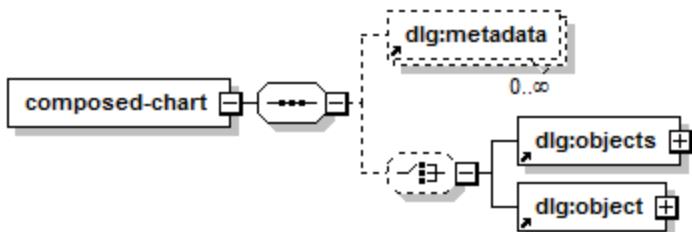
### Parents

`dlg:embedded-object`  
`dlg:object`  
`dlg:objects`

### Attributes

None.

### Structure



## 4.2.12 conditional-color (dlg:conditional-color)

The `dlg:conditional-color` element represents an individual condition and color for a chart series, text box, or table cell that uses conditional colors.

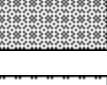
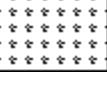
### Parents

`dlg:conditional-colors`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
condition-type	Enum	<p>The type of condition that must be met in order for the color to be applied</p> <p>One of the following:</p> <ul style="list-style-type: none"><li><code>ignore</code>—Do not use this condition (equivalent to omitting this <code>dlg:conditional-color</code> element).</li><li><code>equal</code>—This condition applies when the value is equal to the value specified for the <code>condition-value</code> attribute.</li><li><code>not-equal</code>—This condition applies when the value is not equal to the value specified for the <code>condition-value</code> attribute.</li><li><code>greater-than</code>—This condition applies when the value is greater than the value specified for the <code>condition-value</code> attribute.</li><li><code>less-than</code>—This condition applies when the value is less than the value specified for the <code>condition-value</code> attribute.</li><li><code>greater-than-or-equal</code>—This condition applies when the value is greater than or equal to the value specified for the <code>condition-value</code> attribute.</li><li><code>less-than-or-equal</code>—This condition applies when the value is less than or equal to the value specified for the <code>condition-value</code> attribute.</li><li><code>greater-than-zero</code>—This condition applies when the value is greater than zero.</li><li><code>less-than-zero</code>—This condition applies when the value is less than zero.</li><li><code>equal-zero</code>—This condition applies when the value is equal to zero.</li></ul>	In the <b>Conditional Colors</b> dialog box for a chart series, text box, or table cell, in the <b>Condition</b> column, the drop-down list for an individual condition

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
condition-value	Text	The value to which the variable value is compared to determine whether it meets this condition	In the <b>Conditional Colors</b> dialog box for a chart series, text box, or table cell, in the <b>Value</b> column, the box list for an individual condition
background-color	Color	The color of a chart series or the background color of a table cell or text box when this condition is met	In the <b>Conditional Colors</b> dialog box for a chart series, text box, or table cell, one of the following: <ul style="list-style-type: none"><li>• For a chart series, the color well for an individual condition</li><li>• For a text box or table cell, the color well for an individual condition in the <b>Back</b> column</li></ul>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
background-fill	Int	<p>The hatching or pattern used for the color of the data series or the background fill of a table cell or text box when this condition is met</p> <p>Must be in the range 0–15, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0— </li> <li>• 1— </li> <li>• 2— </li> <li>• 3— </li> <li>• 4— </li> <li>• 5— </li> <li>• 6— </li> <li>• 7— </li> <li>• 8— </li> <li>• 9— </li> <li>• 10— </li> </ul>	The <b>Fill Effects</b> dialog box for a conditional fill for the data series, table cell, or text box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"><li>• 11— </li><li>• 12— </li><li>• 13— </li><li>• 14— </li><li>• 15— </li></ul>	
foreground-color	Color	The text color of a table cell or text box when this condition is met	In the <b>Conditional Colors</b> dialog box for a text box or table cell, the color well for a condition in the <b>Text</b> column

## Structure

conditional-color

## Example

```
<fo:flow display-align="auto" height="500.00lu" margin-bottom="0.00lu" margin-left="0.00lu"
margin-right="0.00lu" margin-top="0.00lu" width="1375.00lu">
<dlg:conditional-colors condition-variable="Variable|501|Custom_Condition"
default-background-color="rgb(255,255,255)"
default-background-fill="0" default-foreground-color="rgb(0,0,0)">
<dlg:conditional-color background-color="rgb(0,0,0)" background-fill="0"
condition-type="less-than-or-equal" condition-value="25" foreground-color="rgb(0,255,0)"/>
<dlg:conditional-color background-color="rgb(255,0,0)" background-fill="0"
condition-type="greater-than"
condition-value="25" foreground-color="rgb(255,255,255)"/>
</dlg:conditional-colors>
...
</fo:flow>
```

## 4.2.13 conditional-colors (dlg:conditional-colors)

The `dlg:conditional-colors` element represents the set of conditional colors for a chart series, a text box, or table cell. Each condition and color is defined by a child `dlg:conditional-color` element.

### Parents

```
dlg:chart-series
fo:flow
fo:table-cell
```

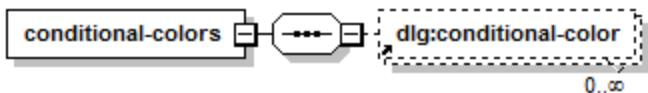
### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
condition-variable	Ref	A reference to the variable on which the condition is based	In the <b>Conditional Colors</b> dialog box for a chart series, text box, or table cell, the <b>Variable</b> box
default-background-color	Color	The default color of a chart series or the default background color of a table cell or text box	In the <b>Conditional Colors</b> dialog box for a chart series, text box, or table cell, one of the following: <ul style="list-style-type: none"><li>For a chart series, the color well in the <b>Default</b> row</li><li>For a text box or table cell, the color well in the <b>Default</b> row and the <b>Back</b> column</li></ul>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
default-background-fill	Int	<p>The hatching or pattern used for the default color of the data series or the default background fill of a table cell or text box</p> <p>Must be in the range 0–15, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0— </li> <li>• 1— </li> <li>• 2— </li> <li>• 3— </li> <li>• 4— </li> <li>• 5— </li> <li>• 6— </li> <li>• 7— </li> <li>• 8— </li> <li>• 9— </li> <li>• 10— </li> </ul>	The <b>Fill Effects</b> dialog box for the default fill of a data series, table cell, or text box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• 11— </li> <li>• 12— </li> <li>• 13— </li> <li>• 14— </li> <li>• 15— </li> </ul>	
default-foreground-color	Color	The default text color of a table cell or text box	In the <b>Conditional Colors</b> dialog box for a text box or table cell, the color well in the <b>Default</b> row and the <b>Text</b> column

## Structure



## Example

```
<fo:flow display-align="auto" height="500.00lu" margin-bottom="0.00lu" margin-left="0.00lu"
margin-right="0.00lu" margin-top="0.00lu" width="1375.00lu">
<dlg:conditional-colors condition-variable="Variable|501|Custom_Condition"
default-background-color="rgb(255,255,255)"
default-background-fill="0" default-foreground-color="rgb(0,0,0)">
<dlg:conditional-color background-color="rgb(0,0,0)" background-fill="0"
condition-type="less-than-or-equal" condition-value="25" foreground-color="rgb(0,255,0)"/>
<dlg:conditional-color background-color="rgb(255,0,0)" background-fill="0"
condition-type="greater-than"
condition-value="25" foreground-color="rgb(255,255,255)"/>
</dlg:conditional-colors>
...
</fo:flow>
```

## 4.2.14 contained-ref (dlg:contained-ref)

The `dlg:contained-ref` element provides a reference to a lower-level container, spacer, or a design object within a container in a container design. It also defines the position of the lower-level container or design object within the container.

### Parents

`dlg:container`

### Attributes

Attribute	Data Type	Description	Corresponding Exstream Design and Production Setting
<code>fixed-height</code>	Bool		
<code>fixed-width</code>	Bool		
<code>has-z-index</code>	Bool	Specifies whether the object has a z-index specified for the container design, using the <code>z-index</code> attribute. When <code>false</code> is specified for this attribute, the objects are stacked and loaded in the order they appear in the DXF, or the order they were created in Designer.	On the <b>Container design</b> tab of the properties of the object within the container, the <b>Z-index</b> check box
<code>oid</code>	Int	The reference identifier of the container or design object referenced by this element. The reference identifier of the referenced object is specified for its <code>ref-id</code> attribute.	
<code>page-oid</code>	Int		
<code>x</code>	Int	The x-coordinate, in logical units, of the upper-left corner of the referenced object within the parent container	On the <b>Container design</b> tab of the properties of the object within the container, the <b>X coordinate in container</b> box
<code>y</code>	Int	The y-coordinate, in logical units, of the upper-left corner of the referenced object within the parent container	On the <b>Container design</b> tab of the properties of the object within the container, the <b>Y coordinate in container</b> box
<code>z-index</code>	Bool	When <code>true</code> is specified for the <code>has-z-index</code> attribute, the z-index of the object in a container design	On the <b>Container design</b> tab of the properties of the object within the container, the <b>Z-index</b> box

## Structure

contained-ref

### Example

```
<dlg:page-frame ... ref-id="2"/>
...
<dlg:objects>
  <dlg:library-component-ref ... library-component=
    "Component|1|CustomerAddressBlock" ref-id="5218468" reference-name=
    "CustomerAddressBlock">
    <dlg:rect .../>
  </dlg:library-component-ref>
  <dlg:container container-clip="ignore-clipping" container-type=
    "horizontal-span" h-auto-size="false" has-max-width="false"
    has-min-width="false" num-tiles="0" padding-bottom="0" padding-elem
    ="100" padding-left="0" padding-right="0" padding-tile="50"
    padding-top="0" ref-id="8983386" reference-name="Container"
    stretch-to-children="true" top-container="true">
    <dlg:rect .../>
    <dlg:contained-ref fixed-height="true" fixed-width="true"
      has-z-index="false" oid="5218468" page-oid="-1" x="1" y="1"/>
    <dlg:contained-ref fixed-height="true" fixed-width="true"
      has-z-index="false" oid="2" page-oid="-1" x="3851" y="1"/>
  </dlg:container>
  <dlg:frame-component ... ref-id="2" reference-name="Frame">
    <dlg:rect .../>
  </dlg:frame-component>
  ...
</dlg:objects>
```

## 4.2.15 container (dlg:container)

The `dlg:container` element represents a container in a container-based design. The `dlg:container` element does not actually contain the elements that define the lower-level containers, spacers, and design objects within the container. Instead, the `dlg:contained-ref` child element is used to reference a container, spacer, or design object defined within the design page. Since the objects are still contained within the design page, you can define a page design and container design for the same objects.

For more information about container-based designs, see *Designing Customer Communications* in the Exstream Design and Production documentation.

### Parents

`dlg:embedded-object`  
`dlg:object`  
`dlg:objects`

### Attributes

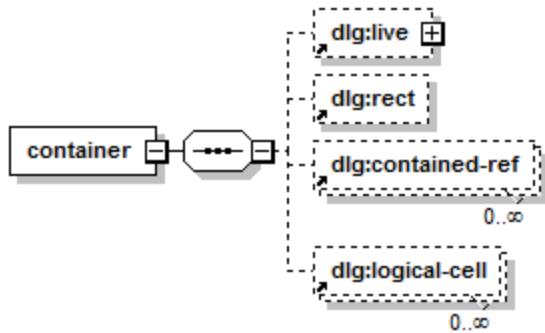
In addition to the following attributes, the `dlg:container` element uses one or more of the common attributes found in “[Shared Design Object Attributes](#)” on page 635.

Attribute	Data Type	Description	Corresponding Exstream Design and Production Setting
container-type	Enum	<p>The type of container defined by the element</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>vertical-span</b>—Objects in the container are arranged in a single vertical column.</li> <li>• <b>horizontal-span</b>—Objects in the container are arranged in a single horizontal row.</li> <li>• <b>vertical-tile</b>—Objects in the container are tiled left to right, and then top to bottom.</li> <li>• <b>horizontal-tile</b>—Objects in the container are tiled top to bottom, and then left to right.</li> <li>• <b>absolute-position</b>—Objects in the container are positioned independently, using coordinates.</li> <li>• <b>grid-layout</b>—Each object in the container is positioned within a grid cell. The cells of the grid are defined by child <a href="#">dlg:logical-cell</a> elements.</li> </ul>	On the <b>Container</b> tab of the container properties, the <b>Container type</b> drop-down list
container-clip	Enum	<p>When <b>vertical-span</b>, <b>horizontal-span</b>, <b>vertical-tile</b>, or <b>horizontal-tile</b> is specified for the <b>container-type</b> attribute, specifies whether objects are excluded from the viewable area when they extend beyond the width of the container</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>ignore-clipping</b>—Do not exclude objects that extend beyond the width of the container.</li> <li>• <b>clip-to-width</b>—Exclude objects that extend beyond the width of the container.</li> </ul>	On the <b>Container</b> tab of the container properties, the <b>Clipping</b> drop-down list
container-label-oi	Ref	A reference to a container design label Library object that identifies the design to which the container belongs	On the <b>Design Views</b> toolbar, the <b>Container Design</b> drop-down list
has-max-width	Bool	When <b>vertical-span</b> , <b>horizontal-span</b> , <b>vertical-tile</b> , or <b>horizontal-tile</b> is specified for the <b>container-type</b> attribute, specifies whether the container has a maximum width, specified by the <b>max-width</b> attribute	On the <b>Container</b> tab of the container properties, the <b>Maximum width</b> check box

Attribute	Data Type	Description	Corresponding Exstream Design and Production Setting
has-min-width	Bool	When vertical-span, horizontal-span, vertical-tile, or horizontal-tile is specified for the container-type attribute, specifies whether the container has a minimum width, specified by the min-width attribute	On the <b>Container</b> tab of the container properties, the <b>Minimum width</b> check box
is-responsive	Bool	<p>When grid-layout is specified for the container-type attribute, specifies whether CSS styles should be applied to the container to enable it to automatically adjust to fit small screens. If applied, these CSS styles force content in the container that is arranged in a multi-column layout on large screens to transform into a single-column layout on small screens. These CSS styles also enable images in the container to scale automatically, and text in the container to wrap to fit the screen size.</p> <p>This attribute applies only to HTML (email) output. When true is specified for the is-responsive attribute, CSS styles are applied to the HTML (email) output. When false is specified for this attribute, CSS styles are not applied.</p>	On the <b>Container</b> tab of the container properties, the <b>Adjust container to fit small screens using CSS</b> check box
max-width	Int	When true is specified for the has-max-width attribute, the maximum width, in logical units, of the container	On the <b>Container</b> tab of the container properties, the <b>Maximum width</b> box
min-width	Int	When true is specified for the has-min-width attribute, the minimum width, in logical units, of the container	On the <b>Container</b> tab of the container properties, the <b>Minimum width</b> box
num-tiles	Int	When vertical-tile is specified for the container-type attribute, the number of tiles in a row before a new row is added; or, when horizontal-tile is specified for the container-type attribute, the number of tiles in a column before a new column is added	On the <b>Container</b> tab of the container properties, the <b>Number of tiles</b> box
padding-bottom	Int	When vertical-span, horizontal-span, vertical-tile, or horizontal-tile is specified for the container-type attribute, the bottom margin, in logical units	On the <b>Container</b> tab of the container properties, the <b>Bottom margin</b> box

Attribute	Data Type	Description	Corresponding Exstream Design and Production Setting
padding-elem	Int	When vertical-span, horizontal-span, vertical-tile, or horizontal-tile is specified for the container-type attribute, the space, in logical units, between adjacent objects in the container	On the <b>Container</b> tab of the container properties, the <b>Padding between objects</b> box
padding-left	Int	When vertical-span, horizontal-span, vertical-tile, or horizontal-tile is specified for the container-type attribute, the left margin, in logical units	On the <b>Container</b> tab of the container properties, the <b>Left margin</b> box
padding-right	Int	When vertical-span, horizontal-span, vertical-tile, or horizontal-tile is specified for the container-type attribute, the right margin, in logical units	On the <b>Container</b> tab of the container properties, the <b>Right margin</b> box
padding-tile	Int	When vertical-tile is specified for the container-type attribute, the space, in logical units, between rows; or, when horizontal-tile is specified for the container-type attribute, the space, in logical units, between columns	On the <b>Container</b> tab of the container properties, the <b>Padding between tiles</b> box
padding-top	Int	When vertical-span, horizontal-span, vertical-tile, or horizontal-tile is specified for the container-type attribute, the top margin, in logical units	On the <b>Container</b> tab of the container properties, the <b>Top margin</b> box
stretch-to-children	Bool	When absolute-position is specified for the container-type attribute, specifies whether the container borders are automatically adjusted to fit the objects within the container. When <code>false</code> is specified for this attribute, the exact dimensions defined by the child <code>dlg:rect</code> element are used.	On the <b>Container</b> tab of the container properties, the <b>Resize container to fit children</b> check box
top-container	Bool	Specifies whether the container is the primary container at the highest level of the container design	

## Structure



## Example

```
<dlg:page-frame ... ref-id="2"/>
...
<dlg:objects>
    <dlg:library-component-ref ... library-component=
        "Component|1|CustomerAddressBlock" ref-id="5218468" reference-name=
        "CustomerAddressBlock">
        <dlg:rect .../>
    </dlg:library-component-ref>
    <dlg:container container-clip="ignore-clipping" container-type=
        "horizontal-span" h-auto-size="false" has-max-width="false"
        has-min-width="false" num-tiles="0" padding-bottom="0" padding-elem="100"
        padding-left="0" padding-right="0" padding-tile="50" padding-top="0" ref-
        id="8983386" reference-name="Container"
        stretch-to-children="true" top-container="true">
        <dlg:rect .../>
        <dlg:contained-ref fixed-height="true" fixed-width="true"
            has-z-index="false" oid="5218468" page-oid="-1" x="1" y="1"/>
        <dlg:contained-ref fixed-height="true" fixed-width="true"
            has-z-index="false" oid="2" page-oid="-1" x="3851" y="1"/>
    </dlg:container>
    <dlg:frame-component ... ref-id="2" reference-name="Frame">
        <dlg:rect .../>
    </dlg:frame-component>
    ...
</dlg:objects>
```

## 4.2.16 container-label (dlg:container-label)

The `dlg:container-label` element represents a container design label Library object in Exstream Design and Production.

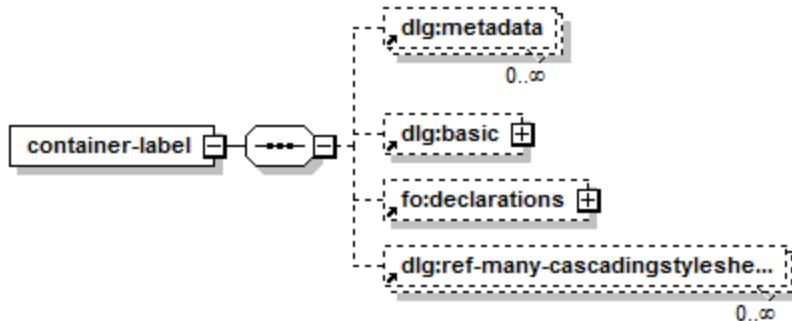
### Parents

`fo:declarations`

### Attributes

Attribute	Data type	Description
<code>schemaVersion</code>	Int	The schema version for this DXF document
<code>xmlns:dlg</code>	Text	The URI for the Exstream namespace
<code>xmlns:dxf</code>	Text	The URI for the DXF namespace
<code>xmlns:fo</code>	Text	The URI for the XSL-FO namespace

### Structure



## Example

```
<dlg:container-label>
  <dlg:basic folder="Folder|200000000|Exstream" oid="1">
    <dlg:name>Default</dlg:name>
    <dlg:description></dlg:description>
  </dlg:basic>
  <dlg:ref-many-cascadingstylesheets
    cascading-style-sheet="CascadingStyleSheet|13|CSS1"/>
  <dlg:ref-many-cascadingstylesheets
    cascading-style-sheet="CascadingStyleSheet|14|CSS2"/>
</dlg:container-label>
```

## 4.2.17 declarations (fo:declarations)

The fo:declarations element contains formatting, variable, or rule declarations at the application-, Library component-, message-, page-, paragraph-, or section-level that can be referenced by lower-level elements.

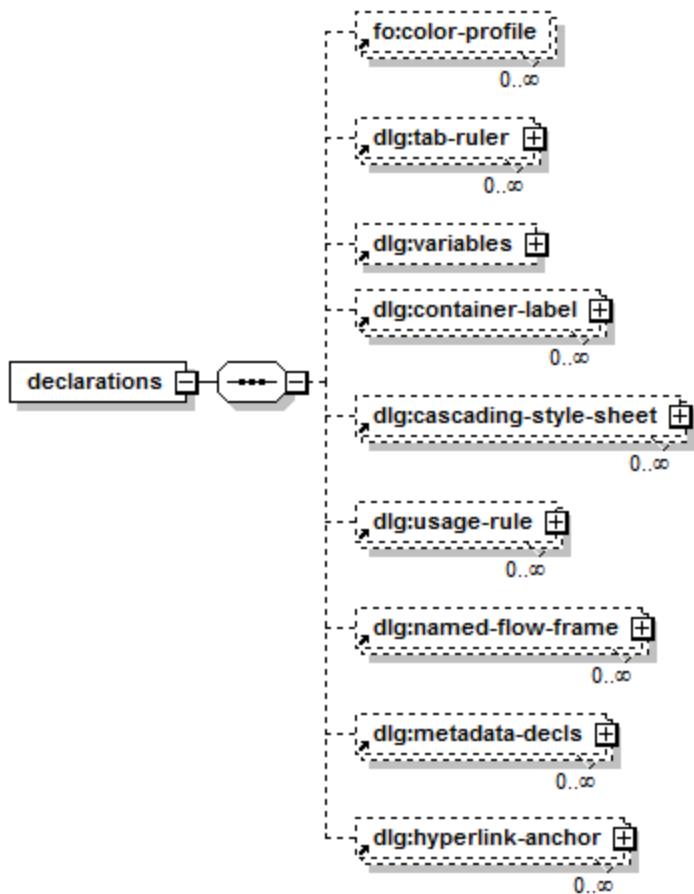
### Parents

dlg:application  
dlg:library-component  
dlg:message  
dlg:message-content  
dlg:page  
dlg:paragraph  
dlg:section

### Attributes

None.

## Structure



## Example

```
<fo:declarations>
  <dlg:tab-ruler default-tab="250u" id="7" list-type="none">
    <dlg:tab-stop tab-align="center" tab-char="0" tab-indent="2500u"/>
    <dlg:tab-stop align-on=".." tab-align="align-on" tab-char="0" tab-indent="4000u"/>
  </dlg:tab-ruler>
</fo:declarations>
```

## 4.2.18 description (dlg:description)

The `dlg:description` element provides a description for an Exstream Design and Production Library object.

### Parents

`dlg:basic`

### Attributes

None.

### Structure



### Example

```
<dlg:basic folder="Folder|3|dialog box boxue Live" oid="148">
    <dlg:name>Sample paragraph</dlg:name>
    <dlg:description>This is a sample paragraph.</dlg:description>
</dlg:basic>
```

## 4.2.19 embedded-object (dlg:embedded-object)

The `dlg:embedded-object` element contains an embedded object (using the appropriate design element) in an Exstream design and provides the size, positioning, and connector line information. The in-line position or anchor point for the embedded object is determined by placing the `dlg:embedded-object` element between two `fo:inline` elements within the parent element. For a demonstration, see the example at the end of this section.

### Parents

```
dlg:objects
fo:basic-link
fo:block
fo:inline
leader (fo:leader)
wrapper (fo:wrapper)
```

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
absolute-docx	Bool	Not used  <b>Note:</b> This attribute is used only during the DOCX import process.	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
clear-floating-objects	Enum	<p>Specifies the sides of the text paragraph where embedded objects are allowed to float relative to the text</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—The preceding embedded objects can float to the left or right of the text paragraph.</li> <li>• <b>left</b>—The preceding embedded objects cannot float on the left side of the text paragraph.</li> <li>• <b>right</b>—The preceding embedded objects cannot float on the right side of the text paragraph.</li> <li>• <b>both</b>—The preceding embedded objects cannot float on either the left or the right side of the text paragraph.</li> </ul>	On the <b>Text paragraph properties</b> tab of the text paragraph properties, in the <b>Float options</b> area, the <b>Clear</b> list
docx-anchor	Bool	<p>Specifies whether an embedded object imported from a DOCX file is imported from a floating object</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <b>Note:</b> This attribute is used only during the DOCX import process.         </div>	
docx-line-anchor	Bool	<p>Specifies whether an embedded object imported from a DOCX file is positioned relative to a line of text</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <b>Note:</b> This attribute is used only during the DOCX import process.         </div>	

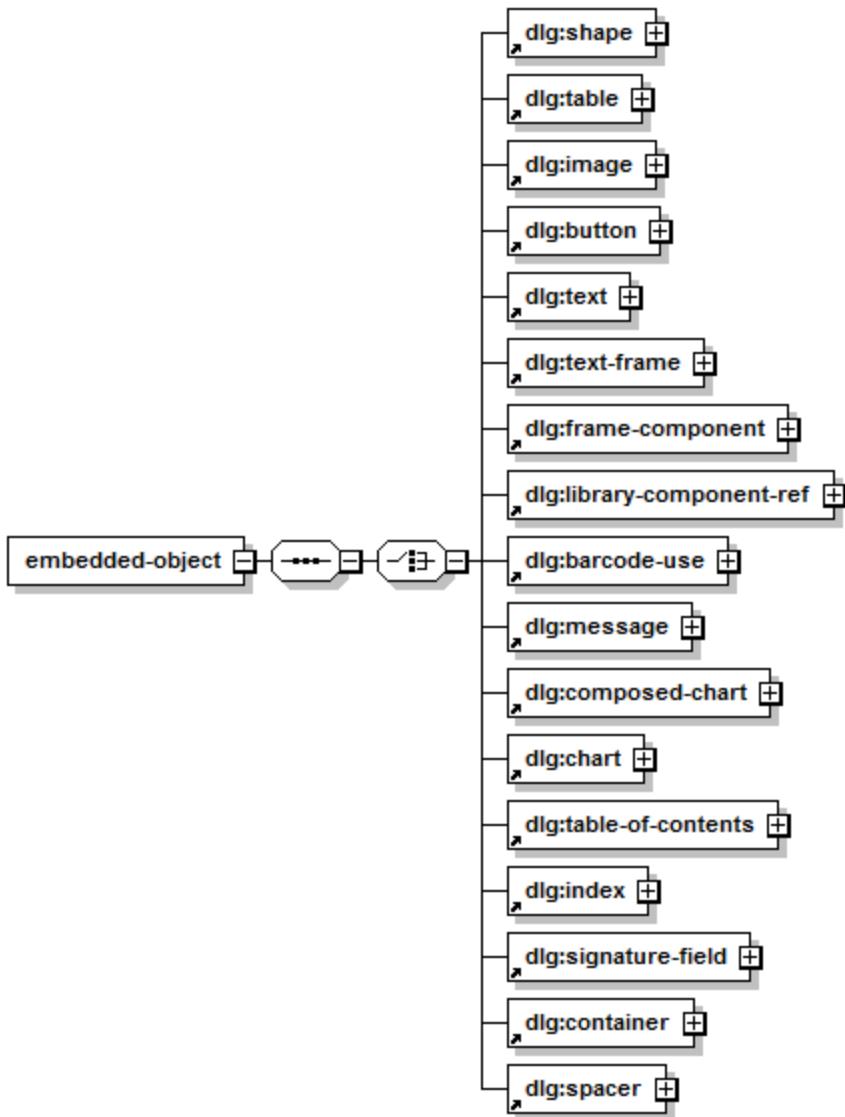
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
embed-anchor	Enum	<p>Specifies how to offset floating or linked embedded objects from the anchor point</p> <p>When link, link-x, or link-y is specified for the embed-method attribute, the embed-anchor attribute corresponds to the <b>Anchor point</b> radio button that the user selects. These correspond to the following anchor points:</p> <ul style="list-style-type: none"> <li>• bottom-left</li> <li>• bottom-center</li> <li>• bottom-right</li> <li>• center-left</li> <li>• center</li> <li>• center-right</li> <li>• upper-left</li> <li>• upper-center</li> <li>• upper-right</li> </ul> <p>When float is specified for the embed-method attribute, the embed-anchor attribute corresponds to the option selected from the <b>Position</b> list. The <b>Left</b> option corresponds to the center-left anchor point, and the <b>Right</b> option corresponds to the center-right anchor point.</p>	In the <b>Embed Properties</b> dialog box or on the <b>Embed Properties</b> tab of the object properties, the <b>Anchor point</b> radio buttons for linked embedded objects and the <b>Position</b> list for floating embedded objects

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
embed-clear-floating-objects	Enum	<p>Specifies which sides of the object do not allow embedded floating objects to float around it</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• none—The preceding embedded objects can float to the left or right of the embedded object.</li> <li>• left</li> <li>• left</li> <li>• right</li> <li>• both</li> <li>• left—The preceding embedded objects cannot float on the left side of the embedded object.</li> <li>• right—The preceding embedded objects cannot float on the right side of the embedded object.</li> <li>• both—The preceding embedded objects cannot float on either the left or the right side of the embedded object.</li> </ul>	In the <b>Embed Properties</b> dialog box or on the <b>Embed Properties</b> tab of the object properties, the <b>Clear</b> list
embed-margin-bottom	Int	Specifies the bottom margin of the embedded object	In the <b>Embed Properties</b> dialog box or on the <b>Embed Properties</b> tab of the object properties, the <b>Bottom margin</b> box
embed-margin-left	Int	Specifies the left margin of the embedded object	In the <b>Embed Properties</b> dialog box or on the <b>Embed Properties</b> tab of the object properties, the <b>Left margin</b> box
embed-margin-right	Int	Specifies the right margin of the embedded object	In the <b>Embed Properties</b> dialog box or on the <b>Embed Properties</b> tab of the object properties, the <b>Right margin</b> box
embed-margin-top	Int	Specifies the top margin of the embedded object	In the <b>Embed Properties</b> dialog box or on the <b>Embed Properties</b> tab of the object properties, the <b>Top margin</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
embed-method	Enum	<p>Specifies how the embedded object is positioned within the parent object</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>float</b>—The object is associated with either the <code>center-left</code> anchor point or the <code>center-right</code> anchor point, and is offset to the left or right of the text.</li> <li>• <b>inline</b>—The object is embedded inline with surrounding text contained in <code>fo:inline</code> elements and appears inline with the text in the design.</li> <li>• <b>link</b>—The object is associated with an anchor point specified by the position of the element within surrounding <code>fo:inline</code> elements and moves with the anchor point in the text in the design, at the offset specified by the <code>offset-x</code> and <code>offset-y</code> attributes.</li> <li>• <b>link-X</b>—The object is associated with an anchor point but can only move horizontally with the anchor text, at the offset specified by the <code>offset-x</code> attribute.</li> <li>• <b>link-Y</b>—The object is associated with an anchor point but can only move vertically with the anchor text, at the offset specified by the <code>offset-y</code> attribute.</li> </ul> <p>The following value is not used:</p> <ul style="list-style-type: none"> <li>• <b>link-XY</b></li> </ul>	In the <b>Embed Properties</b> dialog box or on the <b>Embed Properties</b> tab of the object properties, the <b>Embed method</b> list
height	Int	The height, in logical units, of the embedded object. The <code>height</code> attribute is not used for the child of this element.	On the <b>Placement</b> tab of the object properties, the <b>Width</b> box
line-color	Color	The color of the line that connects the embedded object to the anchor point	In the <b>Embed Properties</b> dialog box or on the <b>Embed Properties</b> tab of the object properties, the <b>Connector line color</b> well

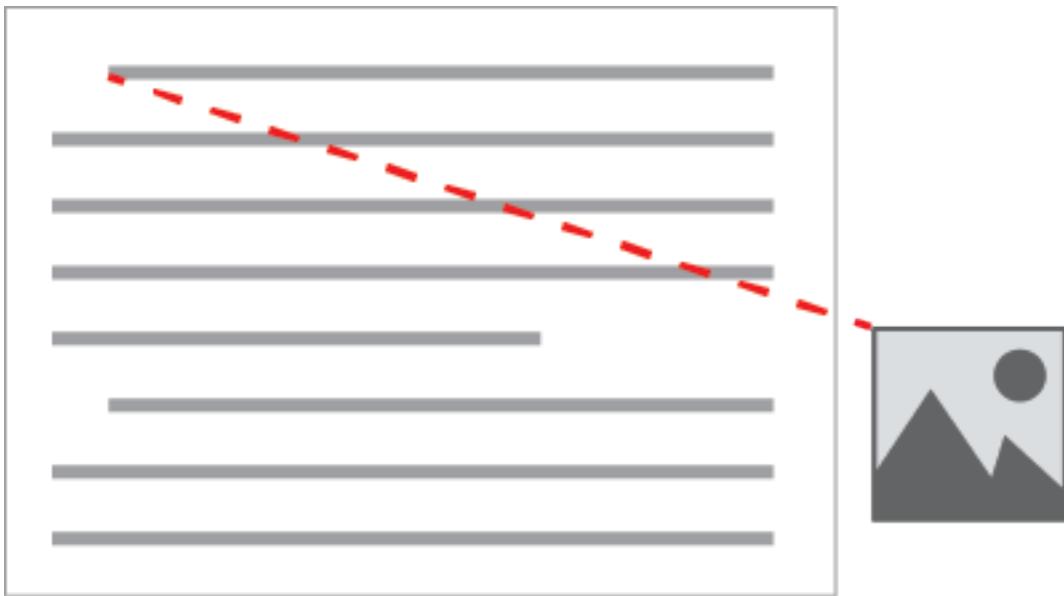
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
line-style	Enum	<p>The line style of the line that connects the embedded object to the anchor point</p> <p>Must be in the range 0–4, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0— —————</li> <li>• 1— — — — —</li> <li>• 2— — — — —</li> <li>• 3— - - - - - -</li> <li>• 4— - - - - - -</li> </ul>	In the <b>Embed Properties</b> dialog box or on the <b>Embed Properties</b> tab of the object properties, in the <b>Connector line</b> area, the style selection box
line-weight	Int	The width, in logical units, of the line that connects the embedded object to the anchor point	In the <b>Embed Properties</b> dialog box or on the <b>Embed Properties</b> tab of the object properties, in the <b>Connector line</b> area, the weight box
lower-left-X	Int	<p>The x-coordinate of the lower-left corner of the embedded object</p> <p><b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.</p>	
lower-left-Y	Int	<p>The y-coordinate of the lower-left corner of the embedded object</p> <p><b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.</p>	
offset-X	Int	When link, link-x, or link-y is specified for the embed-method attribute, the horizontal distance between the point specified for the embed-anchor attribute and the anchor point in the text	In the <b>Embed Properties</b> dialog box or on the <b>Embed Properties</b> tab of the object properties, the <b>Horizontal offset</b> box
offset-Y	Int	When link, link-x, or link-y is specified for the embed-method attribute, the vertical distance between the point specified for the embed-anchor attribute and the anchor point in the text	In the <b>Embed Properties</b> dialog box or on the <b>Embed Properties</b> tab of the object properties, the <b>Vertical offset</b> box
width	Int	The width, in logical units, of the embedded object. The width attribute is not used for the child of this element.	On the <b>Placement</b> tab of the object properties, the <b>Height</b> box

## Structure



## Example

The sample DXF below describes the following example of an embedded text box:



```
<dlg:text>
  <dlg:rect bottom="207.00pt" left="189.00pt" right="288.00pt"
  top="81.00pt"/>
  <fo:flow height="1750.00lu" margin-bottom="0.00lu"
  margin-left="0.00lu" margin-right="0.00lu" margin-top="0.00lu"
  width="1375.00lu">
    <fo:block>
      <fo:inline font-family="Times New Roman" font-size="12.00pt"
      font-style="normal">Lorem ipsum dolor sit amet, consectetur
      adipisicing elit, </fo:inline>
      <dlg:embedded-object embed-anchor="bottom-left"
      embed-method="link" height="375" line-color="rgb(0,0,0)"
      line-weight="1" lower-left-X="1033" lower-left-Y="543"
      offset-X="467" offset-Y="332" width="1000">
        <dlg:text>
          <dlg:rect bottom="144.00pt" left="297.00pt"
          right="369.00pt" top="117.00pt"/>
          <fo:flow display-align="auto" height="375.00lu"
          margin-bottom="0.00lu" margin-left="0.00lu"
          margin-right="0.00lu" margin-top="0.00lu"
          width="1000.00lu">
            <fo:block>
              <fo:inline font-family="Arial" font-size="14.00pt"
              font-style="normal">Text</fo:inline>
            </fo:block>
          </fo:flow>
        </dlg:text>
      </dlg:embedded-object>
      <fo:inline font-family="Times New Roman" font-size="12.00pt"
      font-style="normal">sed do eiusmod tempor incididunt ut
      labore et dolore magna aliqua.</fo:inline>
    </fo:block>
  </fo:flow>
</dlg:text>
```

## 4.2.20 flow (fo:flow)

The fo:flow element represents the contents of a text box or table cell. This element also defines the margins and text alignment of the text box or table cell.

**Note:** The fo:flow element is not related to the concept of flow in Exstream Design and Production. For information about implementing flow frames in DXF, see “[page-frame \(dlg:page-frame\)](#)” on page 334.

### Parents

[dlg:dxftext](#)

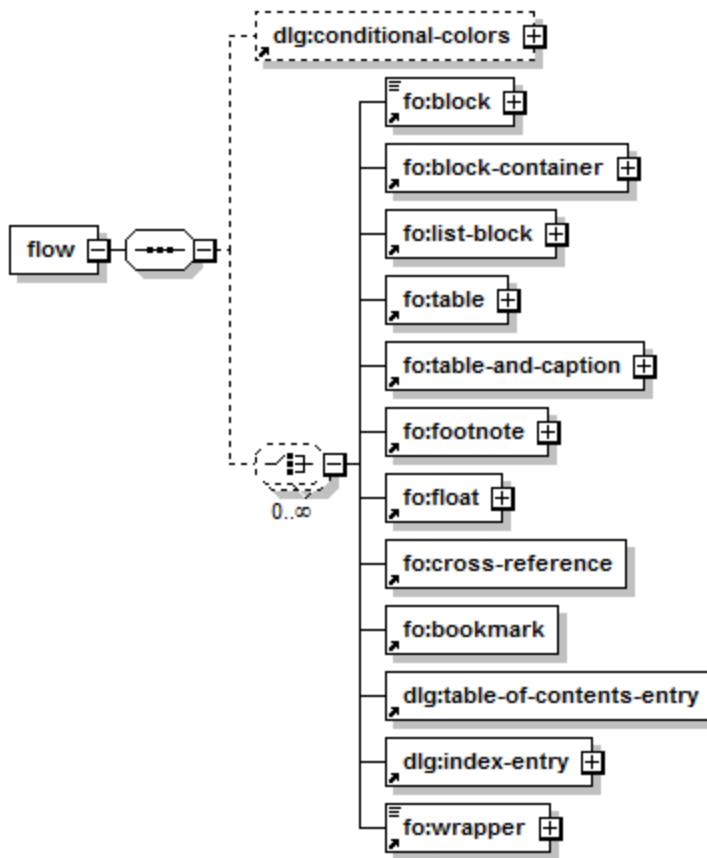
[dlg:text](#)

### Attributes

The fo:flow element uses one or more of the common attributes found in “[Shared XSL-FO Attributes](#)” on page 650. Specifically, the display-align, height, width, margin-bottom, margin-left, margin-right, and margin-top attributes are used to specify the text alignment and margins of the text box or table cell.

Attribute	Data type	Description
flow-name	Text	Not used

## Structure



## Example

```
<dlg:text ...>
  <dlg:rect .../>
  <fo:flow display-align="auto" height="1625.00lu" margin-bottom=
  "0.00lu" margin-left="0.00lu" margin-right="0.00lu" margin-top=
  "0.00lu" width="5250.00lu">
    <fo:block ...>
      <fo:inline ...>...</fo:inline>
    </fo:block>
    <fo:block ...>
      <fo:inline ...>...</fo:inline>
    </fo:block>
  </fo:flow>
</dlg:text>
```

## 4.2.21 frame (dlg:frame)

The dlg:frame element contains flow frame contents or table of contents frame contents in XML (composed) output produced by the engine. This element is not used in imported DXF.

### Parents

dlg:back-flow-frames  
dlg:back-toc-frames  
dlg:front-flow-frames  
dlg:front-toc-frames

### Attribute

Attribute	Data type	Description
value	Int	The sequence number of the frame

### Structure



## 4.2.22 frame-component (dlg:frame-component)

The `dlg:frame-component` element appears in exported DXF or XML (composed) output when a frame is on a page for messages, content flow, table of contents or index flow, footnotes, or a document placeholder, but this element is not currently used. The frame itself is specified using a `dlg:page-frame` element.

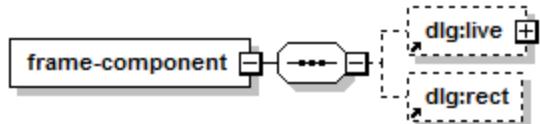
### Parents

`dlg:embedded-object`  
`dlg:object`  
`dlg:objects`

### Attributes

None.

### Structure



## 4.2.23 front-flow-frames (dlg:front-flow-frames)

The `dlg:front-flow-frames` element contains a flow frame (using a `dlg:frame` element) on the front of a page in XML (composed) output produced by the engine. The `dlg:front-flow-frames` element is not used in imported DXF.

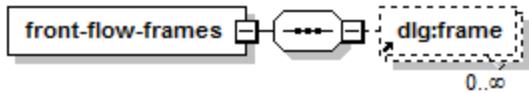
### Parents

`dlg:page`

### Attributes

None.

### Structure



## 4.2.24 image (dlg:image)

The `dlg:image` element represents an image design object, an empty image design object, or a Live image selector object.

To define an empty image object, specify `true` for the `is-empty-placeholder` attribute.

For more information about using images and empty image objects, see *Importing External Content* in the Exstream Design and Production documentation.

For images in Live documents, a `dlg:live` child element is used to define the basic Live properties of the image object. However, some attributes of the `dlg:image` element itself apply only when using the image in a Live document, as indicated in the "Attributes" table within this section.

To define an image selector object for use in a Live document, include an appropriately defined `dlg:live` child element, and specify the following attributes for the `dlg:image` element as appropriate:

- `height`
- `picker-variable`
- `picker-caption-variable`
- `picker-selections-variable`
- `selection`
- `width`

For more information about using images in Live documents or using an image selector object, see *Designing for LiveEditor* in the Exstream Design and Production documentation.

## Parents

`dlg:embedded-object`  
`dlg:object`  
`dlg:objects`

## Attributes

In addition to the following attributes, the `dlg:image` element uses one or more of the common attributes found in ["Shared Design Object Attributes" on page 635](#).

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
align-from	Int	<p>When <code>true</code> is specified for the <code>is-empty-placeholder</code> attribute, and <code>false</code> is specified for the <code>snap-bounding-box-to-image</code> attribute, the alignment of the image within the bounding box</p> <p>One of the following, corresponding to the listed settings:</p> <ul style="list-style-type: none"> <li>• 0—Upper left</li> <li>• 1—Upper center</li> <li>• 2—Upper right</li> <li>• 3—Left middle</li> <li>• 4—Center middle</li> <li>• 5—Right middle</li> <li>• 6—Lower left</li> <li>• 7—Lower center</li> <li>• 8—Lower right</li> </ul>	On the <b>Image</b> tab of the image properties, the <b>Align From</b> radio button grid
align-from-variable	Ref	When <code>true</code> is specified for the <code>is-empty-placeholder</code> attribute, and <code>false</code> is specified for the <code>snap-bounding-box-to-image</code> attribute, a reference to the variable that specifies the alignment of the image within the bounding box	On the <b>Image</b> tab of the image properties, the <b>Align from variable</b> box
click-on="click-on">click-on	Bool	<p>When using the image in a Live document, specifies whether the image is selected</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>Note:</b> This attribute is included in exported DXF and XML (composed) output to indicate whether the image is selected, but it is ignored in imported DXF.</p> </div> <p>For more information about using images in a Live document, see <i>Designing for LiveEditor</i> in the Exstream Design and Production documentation.</p>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>fitting-variable</b>	Ref	<p>When <code>true</code> is specified for the <code>is-empty-placeholder</code> attribute, and <code>variable</code> is specified for the <code>maintain-filename</code> attribute, a reference to the variable that controls the sizing of the image linked to the placeholder variable</p> <p>The value of the referenced variable specifies one of the following settings:</p> <ul style="list-style-type: none"> <li>• 0—The image is not resized.</li> <li>• 1—The image is resized to fill the empty image object.</li> <li>• 2—The image is resized to fit the empty image object, and the aspect ratio of the image is maintained.</li> </ul>	On the <b>Image</b> tab of the image properties, the <b>Image placement and size variable</b> box
<b>height</b>	Int	<p>When defining an image selector object in a Live document, the height, in logical units, of the thumbnails in the image selector</p> <p>For more information about using an image selector, see <i>Designing for LiveEditor</i> in the Exstream Design and Production documentation.</p>	On the <b>Image</b> tab of the image properties, the <b>Thumbnail height</b> box
<b>image-offset-x</b>	Int	Not used	
<b>image-offset-y</b>	Int	Not used	
<b>image-name</b>	Text	<p>The custom name of the empty image object that appears in Designer, or the custom name of the image object that appears in Multi-Channel XML output</p> <p>For more information about using images in Multi-Channel XML output, see <i>Creating Output</i> in the Exstream Design and Production documentation.</p>	On the <b>Image</b> tab of the image properties, the <b>Image name</b> box
<b>image-path</b>	Text	When <code>user-specified-path</code> is specified for the <code>image-path-location</code> attribute, the output path or URL for the image	On the <b>Image</b> tab of the image properties, the <b>User-specified path</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>image-path-location</b>	Enum	<p>When a Multi-Channel XML output object is configured to use paths from individual images, specifies how the output path is determined for Multi-Channel XML output,</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>use-output-dir</b>—Use the same directory as the output file.</li> <li>• <b>user-specified-path</b>—Use the URL or path specified for the <code>image-path</code> attribute.</li> <li>• <b>user-specified-variable</b>—Use the variable referenced by the <code>image-path-variable</code> attribute to determine the URL or path for the image.</li> </ul> <p>For more information about specifying a directory path or URL for individual images in Multi-Channel XML output, see <i>Creating Output</i> in the Exstream Design and Production documentation.</p>	On the <b>Image</b> tab of the image properties, the <b>Image path location</b> list
<b>image-path-variable</b>	Ref	When <code>user-specified-variable</code> is specified for the <code>image-path-location</code> attribute, a reference to the variable that specifies the output path or URL for the image	On the <b>Image</b> tab of the image properties, the <b>Path variable</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>import-type</b>	Enum	<p>The format of the image or images included within <code>dlg:bitmap</code> child elements. This attribute only applies when importing DXF at run time.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>jpegpassthrough</code>—JPEG image file</li> <li>• <code>tiff-g4</code>—Black and white TIFF image file with CCITT Group4 compression, or uncompressed</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <code>none</code></li> <li>• <code>afpf-pseg-passthrough</code></li> <li>• <code>afpf-s45-passthrough</code></li> <li>• <code>ascii</code></li> <li>• <code>epspassthrough</code></li> <li>• <code>formattedtext</code></li> <li>• <code>imageresource</code></li> <li>• <code>live</code></li> <li>• <code>overlayresource</code></li> <li>• <code>pdf</code></li> <li>• <code>pdfpassthrough</code></li> <li>• <code>png</code></li> <li>• <code>pngpassthrough</code></li> <li>• <code>rtf</code></li> <li>• <code>taggedtext</code></li> <li>• <code>tiffpassthrough</code></li> <li>• <code>webverse</code></li> </ul>	
<b>is-empty-placeholder</b>	Bool	Specifies whether the element represents an empty image object for use with a placeholder variable	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>maintain-filename</code>	Enum	<p>When <code>true</code> is specified for the <code>is-empty-placeholder</code> attribute, specifies how the image linked to the placeholder variable is sized</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>no-resizing</code>—The image is not resized.</li> <li>• <code>fit-image-to-object</code>—The image is resized to fill the empty image object.</li> <li>• <code>fit-image-proportionally</code>—The image is resized to fit the empty image object, and the aspect ratio of the image is maintained.</li> <li>• <code>variable</code>—The variable referenced by the <code>fitting-variable</code> attribute specifies how the image is sized.</li> </ul>	On the <b>Image</b> tab of the image properties, the <b>Image placement and size</b> list
<code>meta-props-alternate-text</code>	Text	The text that an accessibility tool reads to represent the object when <code>read-alternate-text</code> is specified for the <code>meta-props-options</code> attribute	On the <b>Accessibility</b> tab of the image properties, the <b>Alternate text</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-language	Enum	<p>The language used when the <code>meta-props-options</code> attribute is set to <code>read-alternate-text</code>. If this attribute is omitted and no other parent object has a language, the default customer language is used. If this attribute is omitted and a parent object has a language, the language specified on the parent object is inherited.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>default</code>—The default customer language</li> <li>• <code>amharic</code>—Amharic</li> <li>• <code>arabic</code>—Arabic</li> <li>• <code>armenian</code>—Armenian</li> <li>• <code>bengali</code>—Bengali</li> <li>• <code>catalan</code>—Catalan</li> <li>• <code>cebuano</code>—Cebuano</li> <li>• <code>chinese</code>—Chinese (PRC)</li> <li>• <code>chinese-tw</code>—Chinese (Taiwan)</li> <li>• <code>chinese-hk</code>—Chinese (Hong Kong SAR)</li> <li>• <code>chinese-sg</code>—Chinese (Singapore)</li> <li>• <code>czech</code>—Czech</li> <li>• <code>danish</code>—Danish</li> <li>• <code>dutch</code>—Dutch</li> <li>• <code>english-us</code>—English (American)</li> <li>• <code>english-au</code>—English (Australian)</li> <li>• <code>english-uk</code>—English (British)</li> <li>• <code>farsi</code>—Farsi (Persian)</li> <li>• <code>finnish</code>—Finnish</li> <li>• <code>french</code>—French</li> <li>• <code>french-creole</code>—French Creole</li> <li>• <code>french-ca</code>—French (Canadian)</li> <li>• <code>german</code>—German</li> <li>• <code>gujarati</code>—Gujarati</li> <li>• <code>hawaiian</code>—Hawaiian</li> <li>• <code>hindi</code>—Hindi</li> <li>• <code>hmong</code>—Hmong</li> <li>• <code>hungarian</code>—Hungarian</li> </ul>	On the <b>Accessibility</b> tab of the image properties, the <b>Accessibility language</b> list

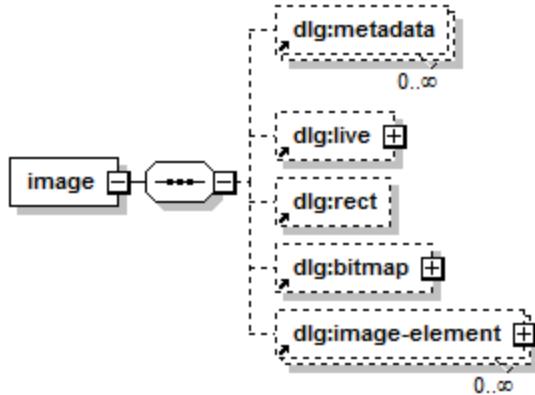
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• igbo—Igbo</li> <li>• ilokano—Ilokano</li> <li>• italian—Italian</li> <li>• japanese—Japanese</li> <li>• khmer—Khmer</li> <li>• korean—Korean</li> <li>• kru—Kru</li> <li>• lao—Lao</li> <li>• marshallese—Marshallese</li> <li>• navajo—Navajo</li> <li>• nepali—Nepali</li> <li>• norway—Norwegian</li> <li>• norway-bokmal—Norwegian (Bokmål)</li> <li>• newnorway—Norwegian (Nynorsk)</li> <li>• oromo—Oromo</li> <li>• pohnpeian—Pohnpeian</li> <li>• polish—Polish</li> <li>• portug—Portuguese</li> <li>• brazil—Portuguese (Brazilian)</li> <li>• punjabi—Punjabi</li> <li>• romanian—Romanian</li> <li>• russian—Russian</li> <li>• samoan—Samoan</li> <li>• spanish—Spanish</li> <li>• swedish—Swedish</li> <li>• tagalog—Tagalog</li> <li>• thai—Thai</li> <li>• tongan—Tongan</li> <li>• turkish—Turkish</li> <li>• ukranian—Ukrainian</li> <li>• urdu—Urdu</li> <li>• vietnamese—Vietnamese</li> <li>• yoruba—Yoruba</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-options	Enum	<p>Specifies whether alternate text is read by accessibility tools</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• do-not-read—Do not read object text or alternate text for this object.</li> <li>• read-alternate-text—Read the alternate text specified for the meta-props-alternate-text attribute.</li> </ul>	On the <b>Accessibility</b> tab of the image properties, the <b>Read options</b> list
meta-props-order	Int	The numerical order in which you want the text to be read by accessibility tools when the meta-props-option attribute is set to read-alternate-text	On the <b>Accessibility</b> tab of the image properties, the <b>Read order</b> box
picker-variable	Ref	<p>When defining an image selector object in a Live document, a reference to the variable that stores the value of the image that the end user selects from the image selector</p> <p>For more information about using an image selector, see <i>Designing for LiveEditor</i> in the Exstream Design and Production documentation.</p>	On the <b>Image</b> tab of the image properties, the <b>Selection variable</b> box
picker-caption-variable	Ref	<p>When defining an image selector object in a Live document, a reference to the array variable that provides captions for the images in an image selector</p> <p>For more information about using an image selector, see <i>Designing for LiveEditor</i> in the Exstream Design and Production documentation.</p>	On the <b>Image</b> tab of the image properties, the <b>Array containing caption values</b> box
picker-selections-variable	Ref	<p>When defining an image selector object in a Live document, a reference to the array variable that provides selection values for the images in an image selector</p> <p>For more information about using an image selector, see <i>Designing for LiveEditor</i> in the Exstream Design and Production documentation.</p>	On the <b>Image</b> tab of the image properties, the <b>Array containing selection values</b> box
placeholder-variable	Ref	When true is specified for the is-empty-placeholder attribute, a reference to the placeholder variable used with the empty image object	On the <b>Image</b> tab of the image properties, the <b>Placeholder variable</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
rotation	Int	When true is specified for the <code>is-empty-placeholder</code> attribute, the rotation, in degrees, of an image as it is dynamically imported into the empty image object	On the <b>Image</b> tab of the image properties, the <b>Image rotation</b> list
selection	Int	<p>When defining an image selector object in a Live document, the number of the image selected as the default in an image selector. The value 0 corresponds to the first <code>dlg:image-element</code> element specified, the value 1 corresponds to the second <code>dlg:image-element</code> element specified, and so on. A value of -1 represents no selection. For the specified <code>dlg:image-element</code> element, true should be specified for the <code>is-default</code> attribute.</p> <p>For more information about using an image selector, see <i>Designing for LiveEditor</i> in the Exstream Design and Production documentation.</p>	On the <b>Image</b> tab of the image properties, the <b>Default selection</b> check box associated with each image in the <b>Image selections</b> box
selector-value	Ref		
snap-bounding-box-to-image	Bool	When true is specified for the <code>is-empty-placeholder</code> attribute, specifies whether the size of the bounding box adjusts to the size of the image linked to the placeholder variable	On the <b>Image</b> tab of the image properties, the <b>Snap bounding box to image</b> check box
stretch-to-frame	Bool	When the image is imported into a placeholder frame at run time, specifies whether the image is stretched to fit the frame size	On the <b>Placeholder Frame Properties</b> tab of the properties of the frame in which the image is imported, the <b>Stretch images to fit</b> check box
upload-archive	Text		
upload-prompt	Text	When using the image in a Live document, the prompt to display in an empty image object when an image has not been uploaded	On the <b>Interactive</b> tab of the image properties, the <b>Prompt to display when there is no image</b> box
upload-filename	Text	The file name of an image uploaded in an empty image object	<p><b>Note:</b> This attribute is provided only for information in XML (composed) output and is ignored in imported DXF.</p>
upload-value	Text		

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
uploaded	Bool	Specifies whether an image has been uploaded in an empty image object  <b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.	
varuse-array-index	Ref	Not used	
width	Int	When defining an image selector object in a Live document, the width, in logical units, of the thumbnails in the image selector  For more information about using an image selector, see <i>Designing for LiveEditor</i> in the Exstream Design and Production documentation.	On the <b>Image</b> tab of the image properties, the <b>Thumbnail width</b> box

## Structure



For a static image, use the `dlg:bitmap` element as an immediate child of the `dlg:image` element. When specifying an image selector, use a `dlg:image-element` element to specify each included image.

For more information about using an image selector, see *Designing for LiveEditor* in the Exstream Design and Production documentation.

## Examples

### Static image object:

```
<dlg:image image-path-location="use-output-dir"  
is-empty-placeholder="false" reference-name="Image 6">  
<dlg:rect bottom="364.32pt" left="198.00pt" right="443.74pt" top=  
="180.00pt"/>  
  <dlg:bitmap>  
    <dlg:binary encoding="base64">...</dlg:binary>  
  </dlg:bitmap>  
</dlg:image>
```

### Empty image object used for dynamic import:

```
<dlg:image height="750.00lu" image-name="Test_placeholder_image"  
image-path-location="use-output-dir" is-empty-placeholder="true"  
placeholder-variable="Placeholder Variable|633|Test_placeholder"  
reference-name="Image 5" rotation="90" selection="-1" width=  
"750.00lu">  
  <dlg:rect bottom="315.00pt" left="72.00pt" right="144.00pt" top=  
  "243.00pt"/>  
</dlg:image>
```

### Image selector object for a Live document:

```
<dlg:image height="750.00lu" image-path-location="use-output-dir"
picker-variable="Selection Variable|563|Test_selection_variable"
reference-name="Image 4" width="750.00lu">
<dlg:live allow-form-insert="true" auto-size="true" can-be-moved
=false" can-be-resized="false" can-be-rotated="false"
can-change-format="false" can-change-properties="false"
can-change-text-properties="false" can-do-object-properties="0"
can-type="false" comb-type="box" content-pick-type="built-in"
editing-change-type="optional" selection="1"
selection-prompt-type="object-name"/>
<dlg:rect bottom="607.32pt" left="135.00pt" right="380.74pt" top
="423.00pt"/>
<dlg:image-element is-default="false" match="1" uploaded="false">
<dlg:bitmap>
<dlg:binary encoding="base64">...</dlg:binary>
</dlg:bitmap>
</dlg:image-element>
<dlg:image-element is-default="true" match="2" uploaded="false">
<dlg:bitmap>
<dlg:binary encoding="base64">...</dlg:binary>
</dlg:bitmap>
</dlg:image-element>
<dlg:image-element is-default="false" match="5" uploaded="false">
<dlg:bitmap>
<dlg:binary encoding="base64">...</dlg:binary>
</dlg:bitmap>
</dlg:image-element>
<dlg:image-element is-default="false" match="7" uploaded="false">
<dlg:bitmap>
<dlg:binary encoding="base64">...</dlg:binary>
</dlg:bitmap>
</dlg:image-element>
</dlg:image>
```

## 4.2.25 inline (fo:inline)

The fo:inline element represents a segment of text with specific formatting.

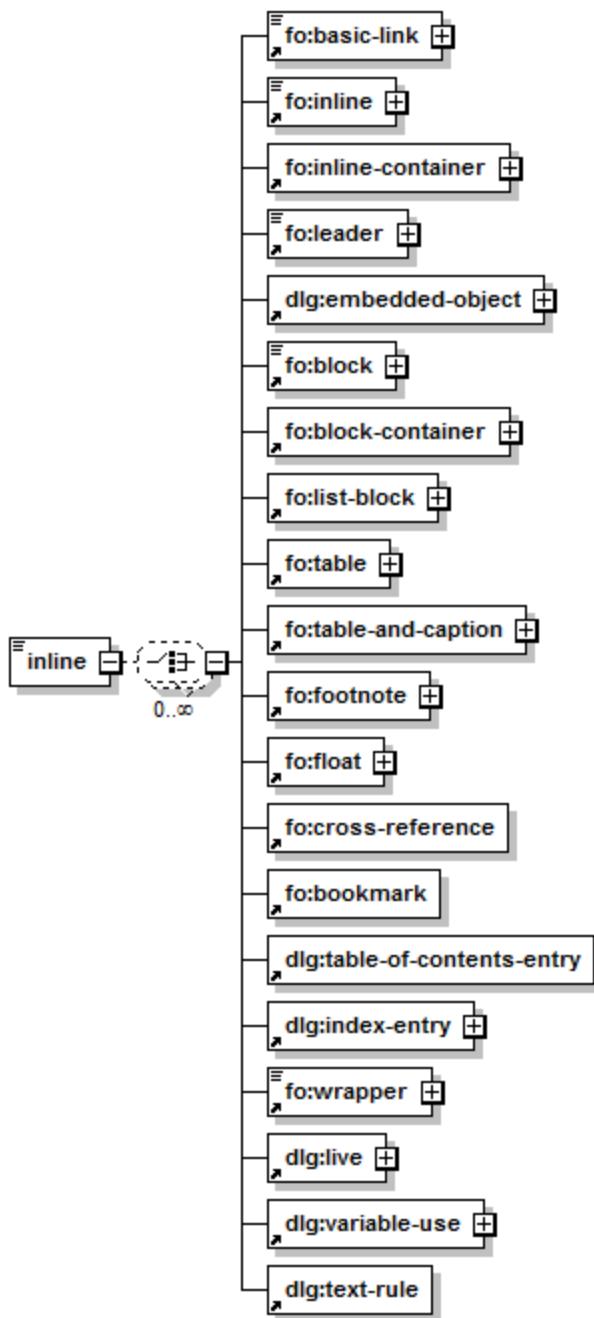
### Parents

fo:basic-link  
fo:block  
fo:footnote  
fo:inline  
leader (fo:leader)  
wrapper (fo:wrapper)

### Attributes

The fo:inline element uses one or more of the common attributes found in “[Shared XSL-FO Attributes](#)” on page 650.

## Structure



## Example

```
<fo:block end-indent="0lu" is-comment="false" keep-together="auto"
keep-with-next="auto" line-height="0lu" line-spacing="single"
space-after="0lu" space-before="0lu" start-indent="0lu" tab-ruler="0"
text-align="left" text-indent="0lu" usage-rule="Rule|0|">
    <fo:inline color="" font-family="Times New Roman"
font-size="10.00pt" font-style="normal" is-comment="false"
letter-spacing="0.00pt" page-break-before="auto">Within a single
paragraph of text, we can have </fo:inline>
    <fo:inline color="" font-family="Times New Roman"
font-size="10.00pt" font-style="normal" font-weight="700"
is-comment="false" letter-spacing="0.00pt"
page-break-before="auto">bold text</fo:inline>
    <fo:inline color="" font-family="Times New Roman"
font-size="10.00pt" font-style="normal" is-comment="false"
letter-spacing="0.00pt" page-break-before="auto">, </fo:inline>
    <fo:inline color="rgb(255,0,0)" font-family="Times New Roman"
font-size="10.00pt" font-style="normal" is-comment="false"
letter-spacing="0.00pt" page-break-before="auto">red text</fo:inline>
    <fo:inline color="rgb(0,0,0)" font-family="Times New Roman"
font-size="10.00pt" font-style="normal" is-comment="false"
letter-spacing="0.00pt" page-break-before="auto">, </fo:inline>
    <fo:inline color="rgb(0,0,0)" font-family="Arial"
font-size="10.00pt" font-style="normal" is-comment="false"
letter-spacing="0.00pt" page-break-before="auto">and text in a
different font.</fo:inline>
</fo:block>
```

## 4.2.26 library-component-ref (dlg:library-component-ref)

The `dlg:library-component-ref` element references an existing Library component in Exstream Design and Production.

### Parents

`dlg:embedded-object`  
`dlg:object`  
`dlg:objects`

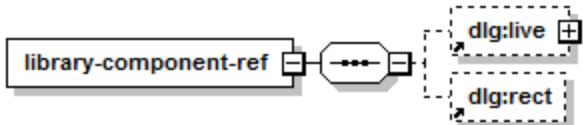
### Attributes

In addition to the following attributes, the `dlg:library-component-ref` element uses one or more of the common attributes found in [“Shared Design Object Attributes” on page 635](#).

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>library-component</code>	Ref	A reference to an existing Library component	A component in the Library, and the associated Internal ID, as shown in the <b>Administration</b> dialog box, in the <b>History</b> area on the <b>Basic</b> tab
<code>page-number</code>	Int	Not used  <b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but <code>false</code> is always specified.	
<code>rule-overridden</code>	Bool	Specifies whether the rule specified for the <code>usage-rule</code> attribute overrides the original rule specified for the Library component referenced by the <code>library-component</code> attribute	On the <b>Rule</b> tab of the properties dialog box for a Library component in Designer, the <b>Override Library component rule</b> check box
<code>sort-var-index</code>	Int	When the Library component referenced by the <code>library-component</code> attribute is a table, the index to use for the array variable referenced by the <code>sort-variable</code> attribute	On the <b>Rule</b> tab of the properties dialog box for a Library component in Designer, the <b>Index</b> box beside the <b>Table sort key</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
sort-variable	Ref	When the Library component referenced by the library-component attribute is a table, a reference to the array variable that specifies the table sort key for the table	On the <b>Rule</b> tab of the properties dialog box for a Library component in Designer, the <b>Table sort key</b> box
tab-index	Int	When the Library component referenced by the library-component attribute is an editable area in a Live document, the index of the object in the tab order	The  and  buttons on the Interactive Design toolbar
version	Int	When the Library component referenced by the library-component attribute is a button in a Live document, specifies the internal Exstream version number that determines the supported properties for the button	
<p><b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.</p>			

## Structure



## Example

```
<dlg:objects>
  <dlg:library-component-ref can-split="false" current-angle="0"
    delay-comp="none" flip-h="false" flip-v="false" flow-around="no"
    flow-break="auto" h-auto-size="false" ignore-relative="no"
    language="Language|0|" library-component="Component|42|Header"
    lock-proportions="false" page-number="false" pos-rel-to-above="0"
    reference-name="AAA1" rule-overridden="false" shadow="none"
    sort-var-index="0" sort-variable="Variable|0|" tab-index="-1"
    v-auto-size="false" version="0">
    <dlg:rect bottom="32.98pt" left="0.00pt" right="0.00pt"
      top="32.98pt"/>
  </dlg:library-component-ref>
  <dlg:library-component-ref can-split="false" current-angle="0"
    delay-comp="none" flip-h="false" flip-v="false" flow-around="no"
    flow-break="auto" h-auto-size="false" ignore-relative="no"
    language="Language|0|" library-component="Component|43|ADDRESS"
    lock-proportions="false" page-number="false" pos-rel-to-above="0"
    reference-name="ADDRESS" rule-overridden="false" shadow="none"
    sort-var-index="0" sort-variable="Variable|0|" tab-index="-1"
    v-auto-size="false" version="0">
    <dlg:rect bottom="66.02pt" left="0.00pt" right="0.00pt"
      top="66.02pt"/>
  </dlg:library-component-ref>
</dlg:objects>
```

## 4.2.27 logical-cell (dlg:logical-cell)

The `dlg:logical-cell` element represents a cell of a grid layout container in a container design. (This element should be used only within a `dlg:container` element for which `grid-layout` is specified for the `container-type` attribute.) Each cell in a grid layout container can contain only one of the following objects: a child container, a spacer, or a design object. The object that occupies the cell is identified by specifying, for the `child-ndx` attribute, the index number of one of the `dlg:contained-ref` elements within the same parent `dlg:container` element.

### Parents

`dlg:container`

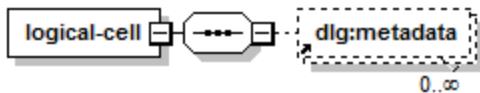
### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>bottom-padding</code>	Int	The bottom margin of the cell	In the <b>Grid Cell Properties</b> dialog box for a cell in a grid layout container, the <b>Bottom margin</b> box
<code>brush</code>	Bool	Specifies whether the cell has a background color	In the <b>Color</b> dialog box for a cell in a grid layout container (accessed from the <b>Background color</b> color well in the <b>Grid Cell Properties</b> dialog box), the <b>None</b> button
<code>brush-fill-color</code>	Color	When <code>true</code> is specified for the <code>brush</code> attribute, the background color of the cell	In the <b>Grid Cell Properties</b> dialog box for a cell in a grid layout container, the <b>Background color</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
cell-alignment	Enum	The alignment of objects in the cell  One of the following: <ul style="list-style-type: none"><li>• top-left</li><li>• top-center</li><li>• top-right</li><li>• middle-left</li><li>• middle-center</li><li>• middle-right</li><li>• bottom-left</li><li>• bottom-center</li><li>• bottom-right</li></ul>	In the <b>Grid Cell Properties</b> dialog box for a cell in a grid layout container, the <b>Object alignment</b> grid
cell-hide	Bool	Specifies whether the grid cell and its contents should be hidden on small screens (480 pixels or less in width) through the application of CSS styles. This attribute applies only to HTML (email) output. The CSS styles that force the cell to be hidden are applied to the HTML (email) output if the value of the <code>cell-hide</code> attribute is <code>true</code> , but are excluded if the value is <code>false</code> .	In the <b>Grid Cell Properties</b> dialog box for a cell in a grid layout container, the <b>Hide cell and its contents on small screens</b> check box
child-ndx	Int	The index number of the <code>dlg:contained-ref</code> element (within the same parent <code>dlg:container</code> element) that references the object that occupies this cell. The first <code>dlg:contained-ref</code> within the parent <code>dlg:container</code> element is represented by 0, the second is represented by 1, and so on. To indicate that the cell is empty, specify -1.	
hspan	Int	The number of columns that the cell spans when cells are merged	
left-padding	Int	The left margin of the cell	In the <b>Grid Cell Properties</b> dialog box for a cell in a grid layout container, the <b>Left margin</b> box
right-padding	Int	The right margin of the cell	In the <b>Grid Cell Properties</b> dialog box for a cell in a grid layout container, the <b>Right margin</b> box
start-col		The column in which the cell begins	The horizontal position of the cell in the grid

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
start-row		The row in which the cell begins	The vertical position of the cell in the grid
top-padding	Int	The top margin of the cell	In the <b>Grid Cell Properties</b> dialog box for a cell in a grid layout container, the <b>Top margin</b> box
vspan	Int	The number of rows that the cell spans when cells are merged	

## Structure



## Example

```
<dlg:container>
  ...
  <dlg:logical-cell bottom-padding="200" cell-alignment="middle-right"
    cell-hide="true" child-ndx="3" hspan="1" left-padding="200" right-
    padding="200"
    start-col="1" start-row="2" top-padding="200" vspan="1"/>
  <dlg:logical-cell bottom-padding="0" cell-alignment="middle-center"
    cell-hide="false" child-ndx="-1" hspan="1" left-padding="0" right-
    padding="0"
    start-col="0" start-row="2" top-padding="0" vspan="1"/>
  <dlg:logical-cell bottom-padding="500" brush="true"
    brush-fill-color="rgb(0,0,0)" cell-alignment="middle-center"
    cell-hide="false" child-ndx="-1" hspan="1" left-
    padding="500" right-padding="500"
    start-col="2" start-row="1" top-padding="500" vspan="1"/>
  <dlg:logical-cell bottom-padding="500" brush="true"
    brush-fill-color="rgb(0,0,0)" cell-alignment="middle-center"
    cell-hide="false" child-ndx="1" hspan="1" left-padding="500" right-
    padding="500"
    start-col="1" start-row="1" top-padding="500" vspan="1"/>
  <dlg:logical-cell bottom-padding="500" brush="true"
    brush-fill-color="rgb(0,0,0)" cell-alignment="middle-center"
    cell-hide="false" child-ndx="-1" hspan="1" left-
    padding="500" right-padding="500"
    start-col="0" start-row="1" top-padding="500" vspan="1"/>
  <dlg:logical-cell bottom-padding="0" cell-alignment="middle-left"
    cell-hide="false" child-ndx="2" hspan="2" left-padding="0" right-
    padding="0"
    start-col="1" start-row="0" top-padding="0" vspan="1"/>
  <dlg:logical-cell bottom-padding="200"
    cell-alignment="middle-center" cell-hide="false" child-ndx="0" hspan="1"
    left-padding="200" right-padding="200" start-col="0" start-row="0"
    top-padding="200" vspan="1"/>
  <dlg:logical-cell bottom-padding="200"
    cell-alignment="middle-center" cell-hide="false" child-ndx="4" hspan="1"
    left-padding="200" right-padding="200" start-col="2" start-row="2"
    top-padding="200" vspan="1"/>
</dlg:container>
```

## 4.2.28 metadata (dlg:metadata)

The `dlg:metadata` element represents a metadata Library object. Keep in mind that although metadata is created separately in Exstream Design and Production and then associated with other Library objects, metadata is introduced directly within another element in DXF.

### Parents

```
dlg:application
dlg:cascading-style-sheet
dlg:composed-chart
dlg:container-label
dlg:document
dlg:hyperlink-anchor
dlg:image
dlg:index
dlg:logical-cell
dlg:message
dlg:page
dlg:section
dlg:shape
dlg:signature-field
dlg:table
dlg:table-of-contents
dlg:text
```

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>name</code>	Text	The name of the metadata object. <b>This attribute is required.</b>	The name of the metadata object in Design Manager

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
metadata-ref	Reference	A reference to the metadata Library object	
value	Text	The value of the metadata object. This attribute overwrites the default metadata value.	In the metadata properties, the <b>Default value</b> box
variable	Reference	The variable that contains the value of the metadata object. This attribute overwrites the default metadata value.	In the metadata properties, the <b>Default value</b> box

## Structure

metadata

## Example

```
<dlg:text>
  <dlg:metadata name="metadata name" value="metadata value"/>
  ...
</dlg:text>
```

## 4.2.29 metadata-decls (dlg:metadata-decls)

The `dlg:metadata-decls` element represents a metadata Library object. Keep in mind that although metadata is created separately in Exstream Design and Production and then associated with other Library objects, metadata is introduced directly within another element in DXF.

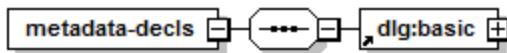
### Parents

`fo:declarations`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>default-value</code>	Text	The default value of the metadata object	In the metadata properties, the <b>Default value</b> box
<code>default-value-variable</code>	Reference	The variable that contains the default value of the metadata object	In the metadata properties, the <b>Default value</b> box
<code>no-value</code>	Boolean	Identifies whether the metadata object has an associated value	In the metadata properties, the <b>No value</b> check box

### Structure



### Example

```
<dlg:metadata-decls default-value="" default-value-variable="Variable|0|" no-value="false">
    <dlg:basic folder="Folder|2000000000|Exstream" oid="501">
        <dlg:name>Class</dlg:name>
        <dlg:description></dlg:description>
    </dlg:basic>
</dlg:metadata-decls>
```

## 4.2.30 name (dlg:name)

The `dlg:name` element specifies the name of a Library object.

### Parents

```
dlg:basic  
font-face (dlg:font-face)
```

### Attributes

None.

### Structure



### Example

```
<dlg:library-component  
xmlns:dlg="http://www.exstream.com/2003/XSL/dialog_box_boxue"  
xmlns:dx="http://www.exstream.com/2008/XSL/DXF"  
xmlns:fo="http://www.w3.org/1999/XSL/Format">  
  <dlg:basic xmlns="http://www.exstream.com/2004/01/dds/meta">  
    <dlg:name>AAA1 reimpor...</dlg:name>  
    ...  
  </dlg:basic>  
  ...  
</dlg:library-component>
```

## 4.2.31 named-flow-frame (dlg:named-flow-frame)

The `dlg:named-flow-frame` element represents a flow target Library object. This element is referenced by the `named-flow` attribute of a `dlg:page-frame` element to associate a flow frame with a flow target, and then by a `dlg:section` element to specify the frame as the destination of overflow content.

### Parents

`fo:declarations`

### Attributes

None.

### Structure



### Example

```
<fo:declarations>
  <dlg:named-flow-frame>
    <dlg:basic folder="Folder|2000000000|Exstream" oid="577">
      <dlg:name>Example Flow Name</dlg:name>
      <dlg:description>This is an example flow name Library
object.</dlg:description>
    </dlg:basic>
  </dlg:named-flow-frame>
</fo:declarations>
<dlg:page-frame ... named-flow="m_scopedNamedFlow|577|Example Flow Name" .../>
```

## 4.2.32 object (dlg:object)

The `dlg:object` element contains a single design object (using the appropriate design element) within a Library component, message, or paragraph.

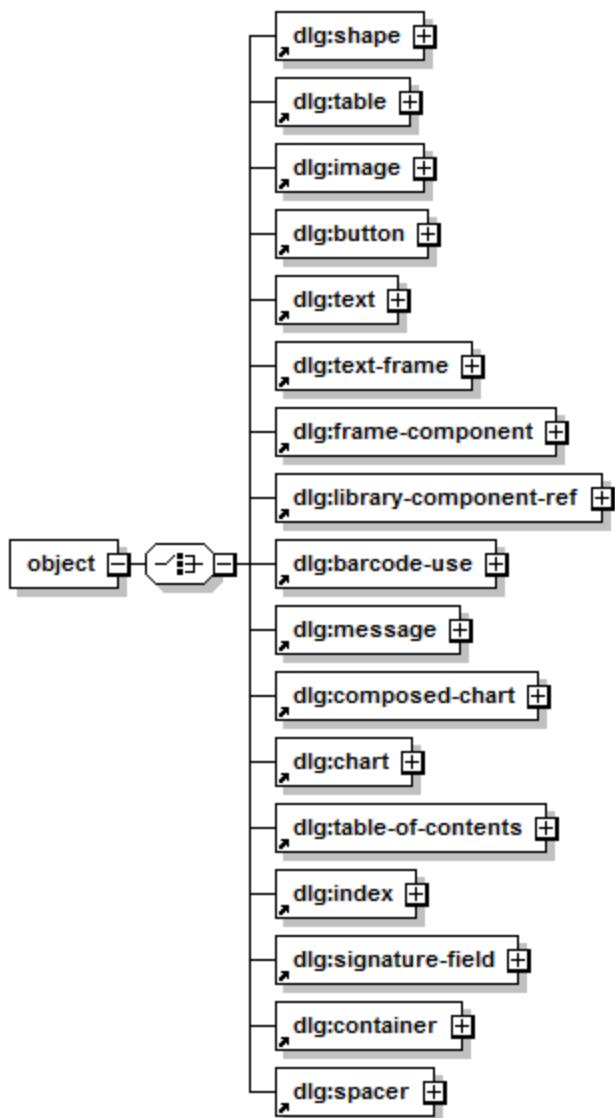
### Parents

`dlg:composed-chart`  
`dlg:library-component`  
`dlg:message`  
`dlg:message-content`  
`dlg:paragraph`

### Attributes

None.

## Structure



## Example

```
<dlg:library-component ...>
  <dlg:basic xmlns="http://www.exstream.com/2004/01/dds/meta">
    <dlg:name>Test Library Component</dlg:name>
  </dlg:basic>
  <fo:declarations>
    ...
  </fo:declarations>
  <dlg:object>
    <dlg:text ...>
      ...
    </dlg:text>
  </dlg:object>
</dlg:library-component>
```

## 4.2.33 objects (dlg:objects)

The `dlg:objects` element contains multiple design objects (using the appropriate design elements) on a page or in a Library component message, or paragraph.

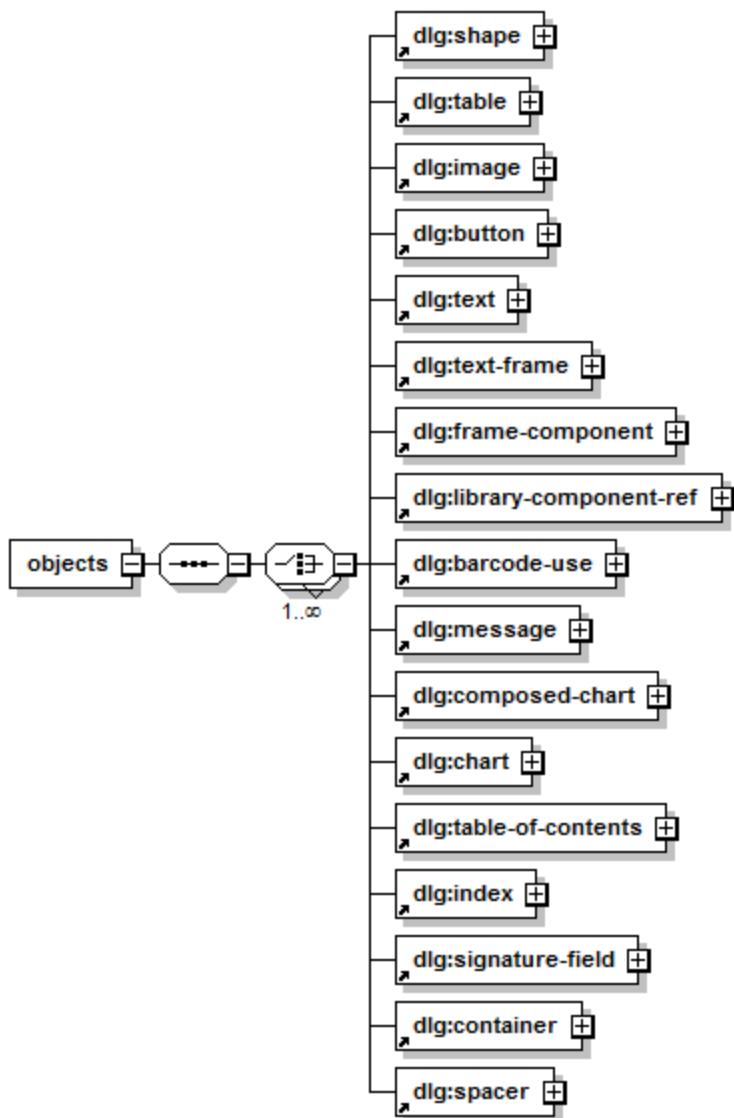
### Parents

`dlg:composed-chart`  
`dlg:library-component`  
`dlg:message`  
`dlg:page`  
`dlg:paragraph`

### Attributes

None.

## Structure



## Example

```
<dlg:page ...>
  <dlg:basic folder="Folder|1|Test Folder" oid="18">
    <dlg:name>Test Page</dlg:name>
  </dlg:basic>
  <fo:declarations>
    ...
  </fo:declarations>
  <dlg:objects>
    <dlg:table ...>
      ...
    </dlg:table>
    <dlg:text ...>
      ...
    </dlg:text>
    <dlg:shape ...>
      ...
    </dlg:shape>
    <dlg:barcode-use ...>
      ...
    </dlg:barcode-use>
  </dlg:objects>
</dlg:page>
```

## 4.2.34 page-frame (dlg:page-frame)

The `dlg:page-frame` element represents a frame on a page for messages, content flow, table of contents or index flow, footnotes, or a document placeholder. While different types of frames are created and presented separately in Designer, the `dlg:page-frame` element is used to represent any frame type, using a combination of the `can-be-graphic`, `can-be-table`, `can-be-text`, `can-be-toc`, `have-footnote`, and `is-placeholder` attributes to determine the frame type.

For more information about message frames, see *Managing Marketing Messages* in the Exstream Design and Production documentation.

For more information about document placeholders, see *Importing External Content* in the Exstream Design and Production documentation.

### Parents

`dlg:page`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>allow-smaller</code>	Bool	When <code>samemsgtype</code> or <code>any</code> is specified for the <code>space-use</code> attribute, specifies whether smaller messages are allowed to fill any additional white space left in the frame after messages allowed by the <code>space-use</code> attribute are included	On the <b>Message Frame or Flow Frame Properties</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Allow smaller messages</b> check box
<code>auto-hide</code>	Bool	Specifies whether the frame size will be adjusted and the contents of the frame will be moved down in the frame if objects around the frame grow or move into the frame	On the <b>Message Frame, Flow Frame Properties, TOC and Index Frame</b> , or <b>Footnote Frame</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Adjust top if overlapped</b> check box
<code>can-be-graphic</code>	Bool	Specifies whether the frame can contain a graphic message. When <code>true</code> is specified for this attribute, a value should be specified for the <code>message-template</code> and <code>template-msg-type</code> attributes; <code>false</code> should be specified for the <code>can-be-toc</code> and <code>is-placeholder</code> attributes; and <code>none</code> should be specified for the <code>have-footnote</code> attribute.	On the <b>Message Frame or Flow Frame Properties</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Graphic messages</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
can-be-table	Bool	Specifies whether the frame accepts general flowing objects. When <code>true</code> is specified for this attribute, <code>false</code> should be specified for the <code>can-be-toc</code> and <code>is-placeholder</code> attributes, and <code>none</code> should be specified for the <code>have-footnote</code> attribute.	In the <b>New Frame</b> dialog box, the <b>Content flow area</b> radio button
can-be-text	Bool	Specifies whether the frame can contain a text message. When <code>true</code> is specified for this attribute, <code>false</code> should be specified for the <code>can-be-toc</code> and <code>is-placeholder</code> attributes, and <code>none</code> should be specified for the <code>have-footnote</code> attribute.	On the <b>Message Frame or Flow Frame Properties</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Text messages</b> check box
can-be-toc	Bool	Specifies whether the frame accepts table of contents or index overflow. When <code>true</code> is specified for this attribute, <code>false</code> should be specified for the <code>can-be-graphic</code> , <code>can-be-table</code> , <code>can-be-text</code> , and <code>is-placeholder</code> attributes, and <code>none</code> should be specified for the <code>have-footnote</code> attribute.	In the <b>New Frame</b> dialog box, the <b>Table of contents and index</b> radio button
can-split	Bool	Specifies whether content from this frame is allowed to flow to other frames. If <code>true</code> is specified for the <code>multiple-messages</code> attribute, either <code>all</code> or <code>out-only</code> must be specified for the <code>flow-control</code> attribute in order for content to flow to other frames.	On the <b>Dynamic Size and Placement</b> tab of the frame properties, the <b>Can split and flow</b> check box
content-type	Enum	Not used  <b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but <code>text</code> is always specified.	
duplex	Bool	Specifies whether the frame is duplex and uses both sides of a duplex page to display a duplex graphic message  Applies when the following conditions are met <ul style="list-style-type: none"> <li>• The value <code>true</code> is specified for the <code>can-be-graphic</code> attribute.</li> <li>• The value <code>false</code> is specified for the <code>can-be-table</code> attribute.</li> <li>• A duplex template is referenced by the <code>message-template</code> attribute.</li> <li>• The page that includes this element is duplex.</li> </ul>	On the <b>Message Frame</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Duplex</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
flow-around	Enum	<p>When <code>false</code> is specified for the <code>can-be-table</code> attribute and <code>true</code> is specified for the <code>can-be-text</code> attribute, specifies how text message content wraps around other objects</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>none</code>—The text does not wrap around other objects.</li> <li><code>fit</code>—The text wraps around other objects follows the shape of each object.</li> <li><code>rect</code>—The text wraps around other objects but maintains a rectangular shape when wrapping around each object.</li> </ul>	On the <b>Message Frame</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Wrap around overlapped</b> list
flow-control	Enum	<p>When <code>true</code> is specified for the <code>have-footnote</code> attribute, or <code>true</code> is specified for the <code>can-be-graphic</code> or <code>can-be-text</code> attribute and also for the <code>multiple-messages</code> attribute, specifies how messages flow into and out of the frame</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>none</code>—Do not allow messages to flow into or out of the frame.</li> <li><code>all</code>—Allow messages from another frame to flow into this frame, and allow messages from this frame to flow into the next acceptable frame.</li> <li><code>in-only</code>—Allow messages from another frame to flow into this frame, but do not allow messages to flow out of the frame.</li> <li><code>out-only</code>—Allow messages from this frame to flow into the next acceptable frame, but do not allow messages to flow into the frame.</li> </ul>	On the <b>Message Frame</b> , <b>Flow Frame Properties</b> , or <b>Footnote Frame</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Message flow across frames</b> or <b>Footnote flow across frames</b> list
frame-line-color	Color	The color of the border around the frame	In the <b>Border Properties</b> dialog box for the frame, the <b>Line properties</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
frame-line-style	Enum	<p>The line style of the border around the frame</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not include a border.</li> <li>• solid—_____</li> <li>• dashed—— — — —</li> <li>• shortdashed— — — — — —</li> <li>• dotted— - - - - -</li> <li>• fardashed— - - - - -</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• double</li> <li>• groove</li> <li>• inset</li> <li>• outset</li> <li>• ridge</li> </ul>	In the <b>Border Properties</b> dialog box for the frame, in the <b>Line properties</b> area, the style selection box
have-footnote	Enum	<p>Specifies whether the frame is a footnote frame and also specifies the pages from which footnotes are populated. When <code>pageonly</code> or <code>any</code> is specified for this attribute, then <code>false</code> should be specified for the <code>can-be-graphic</code>, <code>can-be-table</code>, <code>can-be-text</code>, <code>can-be-toc</code>, and <code>is-placeholder</code> attributes.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—The frame does not contain footnotes.</li> <li>• <code>pageonly</code>—The frame contains footnotes only from the current page.</li> <li>• <code>any</code>—The frame contains footnotes from any page.</li> </ul>	On the <b>Footnote Frame</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Pages which populate footnotes for this frame</b> list, and in the <b>New Frame</b> dialog box, the <b>Footnotes</b> radio button
hide-margin	Int	When <code>true</code> is specified for the <code>auto-hide</code> attribute, the amount of space, in logical units, to leave between the overlapping object and the beginning of the first item in the frame	On the <b>Message Frame</b> , <b>Flow Frame Properties</b> , <b>TOC and Index Frame</b> , or <b>Footnote Frame</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Overlap margin</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
isa-teaser	Bool	When <code>false</code> is specified for the <code>can-be-table</code> attribute, and <code>true</code> is specified for the <code>can-be-graphic</code> or <code>can-be-text</code> attribute, specifies whether the frame is used only for teaser messages	On the <b>Message Frame</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Allow only campaign teaser messages into this frame</b> check box
is-place-holder	Bool	Specifies whether the frame is a document placeholder. When <code>true</code> is specified for this attribute, then <code>false</code> should be specified for the <code>can-be-graphic</code> , <code>can-be-table</code> , <code>can-be-text</code> , and <code>can-be-toc</code> attributes, and <code>none</code> should be specified for the <code>have-footnote</code> attribute.	In the <b>New Frame</b> dialog box, the <b>Placeholder</b> radio button
language	Int	Not used	<p><b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but <code>Language   0  </code> is always specified.</p>
message-template	Ref	When <code>true</code> is specified for the <code>can-be-graphic</code> attribute, a reference to a message template used for the graphic message	On the <b>Message Frame or Flow Frame Properties</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Primary template</b> list
message-type	Ref	When <code>true</code> is specified for the <code>can-be-text</code> attribute, a reference to the message type allowed for the text message. To allow any message type, omit this attribute, or specify the value <code>MessageType   0  </code> .	On the <b>Message Frame or Flow Frame Properties</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Allowed message type</b> list
meta-order	Int	The numerical order in which you want the alternate text specified for the contents of the frame to be read by accessibility tools in PDF output	On the <b>Accessibility</b> tab of the frame properties, the <b>Read order</b> box
meta-props-alternate-text	Text	Not used	
meta-props-language	Enum	Not used	
meta-props-options	Enum	Not used	
meta-props-order	Int	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
min-size-after-overlap	Int	When true is specified for the auto-hide attribute, the minimum height, in logical units, that the frame can be when filled with objects	On the <b>Message Frame, Flow Frame Properties, TOC and Index Frame, or Footnote Frame</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Minimum height</b> box
multiple-messages	Bool	When true is specified for the can-be-graphic or can-be-text attribute, specifies whether multiple messages are allowed in the frame	On the <b>Message Frame or Flow Frame Properties</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Allow multiple messages in frame</b> check box
named-flow	Ref	When true is specified for the can-be-table attribute, a reference to the flow target Library object or <code>dlg:named-flow-frame</code> element associated with the frame	On the <b>Flow Frame Properties</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Flow name</b> box
num-text-columns	Int	When true is specified for the can-be-text attribute, the number of columns of text in the frame	On the <b>Message Frame or Flow Frame Properties</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Columns</b> box
offset-frame-line	Int	The distance outside of the frame, in logical units, to draw the border. A negative number indicates a distance inside the frame.	In the <b>Border Properties</b> dialog box for the frame, the <b>Offset</b> box
orientation	Enum	<p>When true is specified for the is-placeholder attribute, the rotation that is applied to an image imported into the placeholder</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• portrait—Do not rotate the image.</li> <li>• landscape—Rotate the image 90 degrees.</li> <li>• portrait-reversed—Rotate the image 180 degrees.</li> <li>• landscape-reversed—Rotate the image 270 degrees.</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• any</li> <li>• none</li> </ul>	On the <b>Placeholder Frame Properties</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Image orientation</b> list
paper-type	Ref		

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
rect	Rect	The coordinates of the frame	On the <b>Placement</b> tab of the frame properties, the <b>Vertical Position</b> , <b>Horizontal Position</b> , <b>Height</b> , and <b>Width</b> boxes. Keep in mind that the height and width are implied by the coordinates specified for this attribute, rather than explicitly listed.
ref-id	Int	In a container design, the reference ID of the object that is used by the oid attribute of the <a href="#">dlg:contained-ref</a> element to place the object within a container	
relative-above	Enum	<p>When true is specified for the have-footnotes attribute, or false is specified for the can-be-table attribute and true is specified for the can-be-graphic or can-be-text attribute, specifies how the frame moves relative to a growing object</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—The object is static and is not affected by the movement or growth of other objects.</li> <li>• relative—The object moves if the object above it moves or grows.</li> <li>• relative-fixed—The object always appears at the same place on a page when moved but allows additional pages to be composed before the page on which it appears. When using this setting, use the relative-y-position attribute to specify the vertical position of the object.</li> </ul>	On the <b>Dynamic Size and Placement</b> tab of the frame properties, the <b>Move relative to the object</b> list
relative-y-position	Int	The fixed vertical position, in logical units, of an object when relative-fixed is specified for the relative-above attribute	On the <b>Dynamic Size and Placement</b> tab of the frame properties, the <b>Y position</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
space-use	Enum	<p>Specifies the type of messages accepted into this frame when no messages are available that use the template referenced by the <code>message-template</code> attribute</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>templateonly</code>—Do not accept messages that do not use the template referenced by the <code>message-template</code> attribute.</li> <li>• <code>samemsgtype</code>—Accept messages of the same message type.</li> <li>• <code>any</code>—Accept any other messages.</li> <li>• <code>passthrough</code>—The frame is a document placeholder. The value <code>true</code> must be specified for the <code>is-placeholder</code> attribute.</li> </ul>	On the <b>Message Frame or Flow Frame Properties</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Alternative contents</b> list
template-msg-type	Ref	When <code>true</code> is specified for the <code>can-be-graphic</code> attribute, a reference to the message type for the message template used for the graphic message.	On the <b>Basic</b> tab of the properties of the message template referenced by the <code>message-template</code> attribute, the <b>Message type</b> box
text-col-gutter-width	Int	When <code>true</code> is specified for the <code>can-be-text</code> attribute and a value greater than 1 is specified for the <code>num-text-columns</code> attribute, the space, in logical units, between columns in the frame	On the <b>Message Frame or Flow Frame Properties</b> tab of the frame properties or the <b>Insert Frame</b> dialog box, the <b>Gutter size</b> box
wt-frame-line-style	Int	The width, in logical units, of the border around the frame	In the <b>Border Properties</b> dialog box for the frame, in the <b>Line properties</b> area, the <b>weight</b> box

## Structure

page-frame

## Example

```
<dlg:page-frame can-be-graphic="true" can-be-table="false"  
can-be-text="false" can-be-toc="false" duplex="true"  
frame-line-color="rgb(0,0,0)" frame-line-style="none" frame-style="0"  
have-footnote="none" is-place-holder="false" isa-teaser="false"  
message-template="MessageTemplate|1|Coupon" meta-order="1"  
multiple-messages="true" rect="6625.00lu 1000.00lu 9500.00lu 7625.00lu"  
relative-above="none" space-use="templateonly"  
template-msg-type="MessageType|3|Coupon Message" wt-frame-line-style="1"/>
```

## 4.2.35 paper-type (dlg:paper-type)

The `dlg:paper-type` element specifies the color, size, and weight for a new paper type to use for the parent page when an existing paper type is not specified for the `paper-type` attribute of the parent `dlg:page` element.

### Parents

`dlg:page`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>color</code>	Color	The color of the paper  <b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.	In the paper type properties, the <b>Color</b> color well
<code>size</code>	Coord	The size, in inches, of the paper	In the paper type properties, the <b>Width</b> and <b>Height</b> boxes
<code>weight</code>	Num	The weight, in hundredths of ounces, of a sheet of paper of this type  <b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.	In the paper type properties, the <b>Weight</b> box

### Structure

`paper-type`

### Example

```
<dlg:paper-type size="8.5 11"/>
```

## 4.2.36 points (dlg:points)

The `dlg:points` element is a wrapper for the `dlg:wrapper-coordinate` elements that define the points of a shape or text box design object.

The `dlg:points` and `dlg:wrapper-coordinate` elements are not used in XML (composed) output for text boxes, but they can be used instead of the `dlg:rect` element within `dlg:text` elements in DXF that will be imported.

### Parents

`dlg:shape`  
`dlg:text`

### Attributes

None.

### Structure



### Example

```
<dlg:text ...>
  <dlg:points>
    <dlg:wrapper-coordinate value="216pt 135pt"/>
    <dlg:wrapper-coordinate value="252pt 135pt"/>
    <dlg:wrapper-coordinate value="252pt 171pt"/>
    <dlg:wrapper-coordinate value="216pt 171pt"/>
  </dlg:points>
  ...
</dlg:text>
```

## 4.2.37 rect (dlg:rect)

The dlg:rect element specifies the position and size of the object represented by its parent element.

### Parents

dlg:barcode-use  
dlg:button  
dlg:chart  
dlg:chart-overlay  
dlg:image  
dlg:index  
dlg:library-component-ref  
dlg:shape  
dlg:signature-field  
dlg:table  
dlg:table-of-contents  
dlg:text  
dlg:text-frame

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
bottom	Num	The bottom coordinate of the object represented by the parent element	On the <b>Placement</b> tab of the parent object properties, the sum of the <b>Vertical position</b> and <b>Height</b> boxes
left	Num	The left coordinate of the object represented by the parent element	On the <b>Placement</b> tab of the parent object properties, the <b>Horizontal position</b> box
right	Num	The right coordinate of the object represented by the parent element	On the <b>Placement</b> tab of the parent object properties, the sum of the <b>Horizontal position</b> and <b>Width</b> boxes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
top	Num	The top coordinate of the object represented by the parent element	On the <b>Placement</b> tab of the parent object properties, the <b>Vertical position</b> box

## Structure



## Example

```
<dlg:shape brush="true" brush-fill-color="rgb(178,16,16)"  
can-split="false" closed="true" current-angle="0" delay-comp="none"  
design-var-ndx="0" flip-h="false" flip-v="false" flow-around="no"  
flow-break="auto" h-auto-size="false" ignore-relative="no"  
ignore-shape-angle="true" lock-proportions="true"  
meta-props-options="do-not-read" pen="true" pen-color="rgb(0,0,0)"  
pen-style="solid" pen-width="1lu" pos-rel-to-above="0"  
reference-name="Shape" shadow="none" shape="rect" v-auto-size="false">  
    <dlg:rect bottom="171.00pt" left="216.00pt" right="252.00pt"  
        top="135.00pt"/>  
</dlg:shape>
```

## 4.2.38 shape (dlg:shape)

The `dlg:shape` element represents any of the predefined shapes or custom shapes in Designer. The type of shape is specified by the `shape` attribute.

### Parents

`dlg:embedded-object`

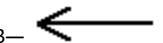
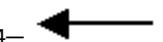
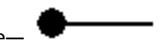
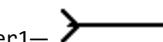
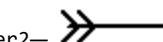
`dlg:object`

`dlg:objects`

### Attributes

In addition to the following attributes, the `dlg:shape` element uses one or more of the common attributes found in [“Shared Design Object Attributes” on page 635](#).

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>beg-pt-size</code>	Int	When <code>false</code> is specified for the <code>closed</code> attribute, the size, in logical units, of the beginning point of the line	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
beg-pt-type	Enum	<p>One of the following:</p> <ul style="list-style-type: none"> <li>• none— </li> <li>• arrow1— </li> <li>• arrow2— </li> <li>• arrow3— </li> <li>• arrow4— </li> <li>• circle— </li> <li>• diamond— </li> <li>• feather1— </li> <li>• feather2— </li> <li>• line— </li> <li>• square— </li> </ul>	On the <b>Lines and Fill</b> tab of the shape properties, the <b>Begin style</b> drop-down list
closed	Bool	<p>When the <b>shape</b> attribute identifies a shape that is specified by a child <a href="#">dlg:points</a> element, specifies whether the object is closed. When <b>false</b> is specified for this attribute, the points identified by the first and last <a href="#">dlg:wrapper-coordinate</a> elements are not connected to one another, and the shape is a polyline. When <b>true</b> is specified for this attribute, these two points are connected to complete a polygon, and the shape is filled according to the <b>brush</b> and <b>brush-fill-color</b> attributes.</p> <p>For the values of the <b>shape</b> attribute that identify a shape that is specified by a child <a href="#">dlg:points</a> element, see <a href="#">"Values of the shape Attribute"</a> on page 350.</p>	
end-pt-size	Int	When <b>false</b> is specified for the <b>closed</b> attribute, the size, in logical units, of the ending point of the line	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
end-pt-type	Int	<p>One of the following:</p> <ul style="list-style-type: none"> <li>• none— </li> <li>• arrow1— </li> <li>• arrow2— </li> <li>• arrow3— </li> <li>• arrow4— </li> <li>• circle— </li> <li>• diamond— </li> <li>• feather1— </li> <li>• feather2— </li> <li>• line— </li> <li>• square— </li> </ul>	On the <b>Lines and Fill</b> tab of the shape properties, the <b>End style</b> drop-down list
ignore-shape-angle	Bool	<p>Specifies whether the points specified for the shape are adjusted to achieve the correct angles for the specified shape during import. When <code>false</code> is specified for this attribute, the angles are ignored, and the exact points specified are used. When <code>true</code> is specified for this attribute, the angles are honored, and the points are adjusted as necessary.</p> <p><b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but <code>true</code> is always specified.</p>	
points	Int	Not used	
shape	Enum	<p>The type of shape defined by the element. The value of this attribute also determines whether the shape is defined by a <code>dlg:rect</code> element or a <code>dlg:points</code> element.</p> <p>For valid values and the proper element to use to define the shape, see “<a href="#">Values of the shape Attribute</a>” on the next page.</p>	Selections on the <b>Insert &gt; Drawing Object</b> and <b>Insert &gt; Shape</b> menus

## Values of the shape Attribute

Use the following values of the shape attribute to define shapes. For each type of shape, use a child `dlg:rect` element or `dlg:points` element as indicated to define the shape.

Value of the shape attribute	Description	Example	Defined using <code>dlg:rect</code>	Defined using <code>dlg:points</code>
arrow	An arrow shape, facing right by default		X	
arrowdown	An arrow shape, facing downward by default		X	
arrowleft	An arrow shape, facing left by default		X	
arrowup	An arrow shape, facing upward by default		X	
bevel	Not used			
bezier	A bezier curve			X
bullet	A list bullet shape		X	
check	A check mark shape		X	
circle	An ellipse shape		X	
darrow	A double-headed arrow		X	

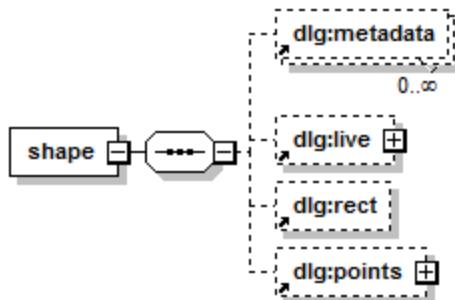
Value of the shape attribute	Description	Example	Defined using <code>dlg:rect</code>	Defined using <code>dlg:points</code>
<code>diamond</code>	A diamond shape (a square shape rotated 45 degrees by default)		X	
<code>dlarrow</code>	A double-headed, right-angle arrow		X	
<code>eighth-circle</code>	A one-eighth slice of a circle		X	
<code>half-circle</code>	Half of a circle		X	
<code>half-moon</code>	A half-moon shape		X	
<code>lineararrow</code>	A right-angle arrow		X	
<code>misc</code>	A custom line, polyline, or irregular polygon	Line:  Polyline:  Polygon: 		X

Value of the shape attribute	Description	Example	Defined using <code>dlg:rect</code>	Defined using <code>dlg:points</code>
<code>multigon</code>	A convex polygon with any number of sides  <b>Note:</b> In imported DXF, <code>multigon</code> is effectively the same as <code>misc</code> , since any points can be defined within the child <code>dlg:points</code> . This value is provided to allow a semantic distinction, and it is the responsibility of the person or software that produces the DXF to specify points that define a regular polygon.		X (results in a ten-sided polygon)	X
<code>multistar</code>	A star-shaped polygon with any number of points  <b>Note:</b> In imported DXF, <code>multistar</code> is effectively the same as <code>misc</code> , since any points can be defined within the child <code>dlg:points</code> element. This value is provided to allow a semantic distinction, and it is the responsibility of the person or software that produces the DXF to specify points that define a star-shaped polygon.		X (results in a five-point star)	X
<code>parallel</code>	A parallelogram shape		X	
<code>plus</code>	A plus-sign shape		X	
<code>poly10</code>	A ten-sided polygon		X	
<code>poly5</code>	A five-sided polygon		X	

Value of the shape attribute	Description	Example	Defined using <code>dlg:rect</code>	Defined using <code>dlg:points</code>
<code>poly6</code>	A six-sided polygon		X	
<code>poly7</code>	A seven-sided polygon		X	
<code>poly8</code>	A eight-sided polygon		X	
<code>poly9</code>	A nine-sided polygon		X	
<code>quarter-circle</code>	A one-quarter slice of a circle		X	
<code>rdleft</code>	A tab shape (a rectangle with two rounded corners, as in a folder or dialog box tab), left-facing by default		X	
<code>rdrect</code>	A rectangle with rounded corners		X	
<code>rdright</code>	A tab shape (a rectangle with two rounded corners, as in a folder or dialog box tab), right-facing by default		X	
<code>rect</code>	A rectangle shape		X	
<code>rightangle</code>	A right triangle shape		X	
<code>sarrow</code>	An arrow shape with a split end		X	
<code>sbullet</code>	A list bullet shape with a split end		X	

Value of the shape attribute	Description	Example	Defined using <code>dlg:rect</code>	Defined using <code>dlg:points</code>
tab	A tab shape (a rectangle with two rounded corners, as in a folder or dialog box tab)		X	
trapezoid	A trapezoid shape		X	
triangle	An isosceles triangle shape		X	

## Structure



## Examples

### Regular pentagon:

```
<dlg:shape brush="true" brush-fill-color="rgb(0,128,0)" closed="true"
current-angle="0" flip-h="false" flip-v="false" flow-around="no"
flow-break="auto" ignore-shape-angle="true" language="Language|0|"
lock-proportions="true" meta-props-options="do-not-read" pen="true"
pen-color="rgb(0,0,0)" pen-style="solid" pen-width="1lu"
pos-rel-to-above="0" reference-name="Shape 31" shape="poly5">
    <dlg:rect bottom="374.54pt" left="180.00pt" right="214.20pt" top=
    "342.00pt"/>
</dlg:shape>
```

### Right-angle arrow, flipped and rotated:

```
<dlg:shape brush="true" brush-fill-color="rgb(0,128,0)" closed="true"  
current-angle="-270" flip-h="false" flip-v="true" flow-around="no"  
flow-break="auto" ignore-shape-angle="false" language="Language|0|"  
lock-proportions="true" meta-props-options="do-not-read" pen="true"  
pen-color="rgb(0,0,0)" pen-style="solid" pen-width="1lu"  
pos-rel-to-above="0" reference-name="Shape 22" shape="linearrow">  
    <dlg:rect bottom="378.00pt" left="243.00pt" right="279.00pt" top=  
        "342.00pt"/>  
</dlg:shape>
```

### Eight-point star:

```
<dlg:shape beg-pt-size="102lu" beg-pt-type="none" brush="true"  
brush-fill-color="rgb(0,128,0)" can-split="false" closed="true"  
current-angle="0" delay-comp="none" design-var-ndx="0" end-pt-size=  
"102lu" end-pt-type="none" flip-h="false" flip-v="false" flow-around=  
"no" flow-break="auto" h-auto-size="false" ignore-relative="no"  
ignore-shape-angle="true" language="Language|0|" lock-proportions=  
"true" meta-props-options="do-not-read" pen="true" pen-color=  
"rgb(0,0,0)" pen-style="solid" pen-width="1lu" pos-rel-to-above="0"  
reference-name="Shape 42" shadow="none" shape="multistar" v-auto-size=  
"false">  
    <dlg:points>  
        <dlg:wrapper-coordinate value="4500.00lu 4750.00lu"/>  
        <dlg:wrapper-coordinate value="4452.00lu 4884.00lu"/>  
        <dlg:wrapper-coordinate value="4323.00lu 4823.00lu"/>  
        <dlg:wrapper-coordinate value="4384.00lu 4952.00lu"/>  
        <dlg:wrapper-coordinate value="4250.00lu 5000.00lu"/>  
        <dlg:wrapper-coordinate value="4384.00lu 5047.00lu"/>  
        <dlg:wrapper-coordinate value="4323.00lu 5176.00lu"/>  
        <dlg:wrapper-coordinate value="4452.00lu 5115.00lu"/>  
        <dlg:wrapper-coordinate value="4500.00lu 5250.00lu"/>  
        <dlg:wrapper-coordinate value="4547.00lu 5115.00lu"/>  
        <dlg:wrapper-coordinate value="4676.00lu 5176.00lu"/>  
        <dlg:wrapper-coordinate value="4615.00lu 5047.00lu"/>  
        <dlg:wrapper-coordinate value="4750.00lu 4999.00lu"/>  
        <dlg:wrapper-coordinate value="4615.00lu 4952.00lu"/>  
        <dlg:wrapper-coordinate value="4676.00lu 4823.00lu"/>  
        <dlg:wrapper-coordinate value="4547.00lu 4884.00lu"/>  
    </dlg:points>  
</dlg:shape>
```

### Bezier curve:

```
<dlg:shape beg-pt-size="102lu" beg-pt-type="none" closed="false"
current-angle="0" end-pt-size="102lu" end-pt-type="none" flip-h=
"false" flip-v="false" flow-around="no" flow-break="auto"
ignore-shape-angle="true" language="Language|0|" lock-proportions=
"false" meta-props-options="do-not-read" pen="true" pen-color=
"rgb(0,0,0)" pen-style="solid" pen-width="1lu" pos-rel-to-above="0"
reference-name="Shape 30" shape="bezier">
  <dlg:points>
    <dlg:wrapper-coordinate value="5125.001u 4800.001u"/>
    <dlg:wrapper-coordinate value="5235.001u 4625.001u"/>
    <dlg:wrapper-coordinate value="5272.001u 5091.001u"/>
    <dlg:wrapper-coordinate value="5309.001u 5325.001u"/>
    <dlg:wrapper-coordinate value="5382.001u 5500.001u"/>
    <dlg:wrapper-coordinate value="5529.001u 5150.001u"/>
    <dlg:wrapper-coordinate value="5603.001u 4975.001u"/>
    <dlg:wrapper-coordinate value="5640.001u 4858.001u"/>
    <dlg:wrapper-coordinate value="5750.001u 5091.001u"/>
    <dlg:wrapper-coordinate value="5750.001u 5091.001u"/>
  </dlg:points>
</dlg:shape>
```

## 4.2.39 signature-field (dlg:signature-field)

The `dlg:signature-field` element represents a signature field design object in a document that uses electronic signatures.

### Parents

`dlg:embedded-object`

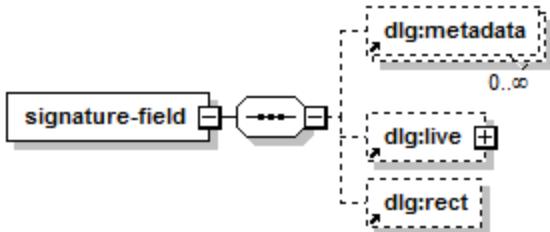
`dlg:object`

`dlg:objects`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>email-variable</code>	Ref	A reference to the non-array string variable that provides the email address of the recipient who must sign in this location	On the <b>Signature</b> tab of the signature properties, the <b>Signer email</b> box
<code>signaturefield-type</code>	Enum	The type of data required in the signature field  One of the following: <ul style="list-style-type: none"><li>• <code>sign</code>—Indicate that a signature is required.</li><li>• <code>initial</code>—Indicate that initials are required.</li><li>• <code>full-name</code>—Indicate that a full name is required.</li><li>• <code>date</code>—Indicate that a date is required.</li><li>• <code>other</code>—Indicate that the type of data specified for the <code>other-type</code> attribute is required.</li></ul>	On the <b>Signature</b> tab of the signature properties, the <b>Signature type</b> drop-down list
<code>is-optional</code>	Bool	Specifies whether the signature is optional	On the <b>Signature</b> tab of the signature properties, the <b>Signing here is optional</b> check box
<code>other-type</code>	Text	When <code>other-type</code> is specified for the <code>field-type</code> attribute, the type of data required for the signature field	On the <b>Signature</b> tab of the signature properties, the <b>Other signature type</b> box

## Structure



## Example

```
<dlg:signature-field brush="true" brush-fill-color="rgb(255,255,192)"  
can-split="false" current-angle="0" delay-comp="none" design-var-ndx=  
"0" disregard-shifts="sign" email-variable="Variable|0|" flip-h="false"  
flip-v="false" flow-around="no" flow-break="auto" h-auto-size="false"  
ignore-relative="no" is-optional="false" language="Language|0|"  
lock-proportions="false" other-type="" pen="true" pen-color=  
"rgb(125,122,0)" pen-style="solid" pen-width="10lu" pos-rel-to-above=  
"0" reference-name="Signature" shadow="none" v-auto-size="false">  
    <dlg:rect bottom="203.40pt" left="216.00pt" right="288.00pt" top=  
    "189.00pt"/>  
</dlg:signature-field>
```

## 4.2.40 spacer (dlg:spacer)

The `dlg:spacer` element represents a spacer design object in a container design.

### Parents

`dlg:embedded-object`

`dlg:object`

`dlg:objects`

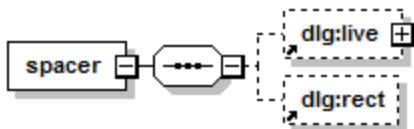
### Attributes

In addition to the following attributes, the `dlg:spacer` element uses one or more of the common attributes found in “[Shared Design Object Attributes](#)” on page 635.

Attribute	Data Type	Description	Corresponding Exstream Design and Production Setting
<code>fixed-height</code>	Bool	Specifies whether the spacer has a fixed height. When <code>true</code> is specified for this attribute, the height is specified for the <code>height</code> attribute. When <code>false</code> is specified for this attribute, the height is specified for the <code>percent-height</code> attribute.	On the <b>Spacer</b> tab of the spacer properties, the <b>Has fixed height</b> check box
<code>fixed-width</code>	Bool	Specifies whether the spacer has a fixed width. When <code>true</code> is specified for this attribute, the width is specified for the <code>width</code> attribute. When <code>false</code> is specified for this attribute, the width is specified for the <code>percent-width</code> attribute.	On the <b>Spacer</b> tab of the spacer properties, the <b>Has fixed width</b> check box
<code>height</code>	Int	When <code>true</code> is specified for the <code>fixed-height</code> attribute, the height, in logical units, of the spacer	On the <b>Spacer</b> tab of the spacer properties, the <b>Height</b> box
<code>percent-height</code>	Int	When <code>false</code> is specified for the <code>fixed-height</code> attribute, the percentage of the available vertical space that the spacer occupies	On the <b>Spacer</b> tab of the spacer properties, the <b>Percent height</b> box
<code>percent-width</code>	Int	When <code>false</code> is specified for the <code>fixed-width</code> attribute, the percentage of the available horizontal space that the spacer occupies	On the <b>Spacer</b> tab of the spacer properties, the <b>Percent width</b> box

Attribute	Data Type	Description	Corresponding Exstream Design and Production Setting
width	Int	When true is specified for the fixed-width attribute, the width, in logical units, of the spacer	On the <b>Spacer</b> tab of the spacer properties, the <b>Width</b> box

## Structure



## Example

```
<dlg:container ...>
  <dlg:rect .../>
  ...
  <dlg:contained-ref fixed-height="true" fixed-width="true" has-z-index
  ="false" oid="6665482" page-oid="-1" x="1" y="4105"/>
  ...
</dlg:container>
<dlg:spacer fixed-height="true" fixed-width="false" height="125"
percent-width="100" ref-id="6665482" reference-name="Spacer">
  <dlg:rect .../>
</dlg:spacer>
```

## 4.2.41 table (dlg:table)

The `dlg:table` element represents a table design object.

### Parents

`dlg:embedded-object`  
`dlg:object`  
`dlg:objects`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>alternate-fill</code>	Bool	When a value other than <code>simple</code> is specified for the <code>table-type</code> attribute, specifies whether the automated table rows have alternating fill. When <code>true</code> is specified for this attribute, the background fill specified for the <code>background-color</code> attribute of the <code>fo:table-row</code> element that represents an automated row is alternated with no background fill as rows are added to the table during production.	On the <b>Table</b> tab of the table properties, the <b>Alternate fill in table rows</b> check box
<code>enable-data-sections</code>	Bool	When <code>sets</code> , <code>levels</code> , or <code>user</code> is specified for the <code>table-type</code> attribute, specifies whether data sections are used in the table and whether the attributes of the <code>fo:table-row</code> element that is related to data sections can be used	On the <b>Table</b> tab of the table properties, the <b>Enable data sections/XML nodes</b> check box or in the <code>table-type</code> attribute, the <b>Enable data sections/XML node processing</b> check box
<code>enable-legend-boxes</code>	Bool	Specifies whether a legend is included with the table. Not currently used.	On the <b>Table</b> tab of the table properties, the <b>Add legend boxes to rows</b> check box

**Note:** XML node settings are not supported in DXF files.

The **XML Node** option for the **Enable data sections** attribute does not have a corresponding attribute in the DXF elements.

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
frame-style	Enum	The type of border to use for the table  One of the following: <ul style="list-style-type: none"><li>• <b>frame</b>—Use a single-line border.</li><li>• <b>doubleline</b>—Use a double-line border.</li></ul>	On the <b>Table</b> tab of the table properties, the <b>Frame style</b> list
keep-groups-together	Bool	Specifies whether repeating rows are kept together when the table breaks across pages	On the <b>Table</b> tab of the table properties, the <b>Keep groups together</b> check box
legend-box-pos	Int	The offset, in logical units, between the left side of the table and the left side of each legend box. Not currently used.	On the <b>Table</b> tab of the table properties, the <b>X position</b> box
legend-box-pos-y	Int	The offset, in logical units, between the top of each row in the table and the top of the corresponding legend box. Not currently used.	On the <b>Table</b> tab of the table properties, the <b>Y position</b> box
legend-box-size	Int	The size, in logical units, of each legend box. Not currently used.	On the <b>Table</b> tab of the table properties, the <b>Size</b> box
legend-frame-color	Color	The color of the frame around each legend box. Not currently used.	On the <b>Table</b> tab of the table properties, the <b>Frame style</b> color well below the <b>Add legend boxes to rows</b> check box
legend-frame-style	Enum	The type of border to use around each legend box. Not currently used.  One of the following: <ul style="list-style-type: none"><li>• <b>none</b>—Do not use a border.</li><li>• <b>frame</b>—Use a single-line border.</li><li>• <b>double-line</b>—Use a double-line border.</li></ul>	On the <b>Table</b> tab of the table properties, the <b>Frame style</b> box below the <b>Add legend boxes to rows</b> check box
meta-props-alternate-text	Text	The text that an accessibility tool reads to represent the object when <b>read-alternate-text</b> is specified for the <b>meta-props-options</b> attribute	On the <b>Accessibility</b> tab of the table properties, the <b>Alternate text</b> box

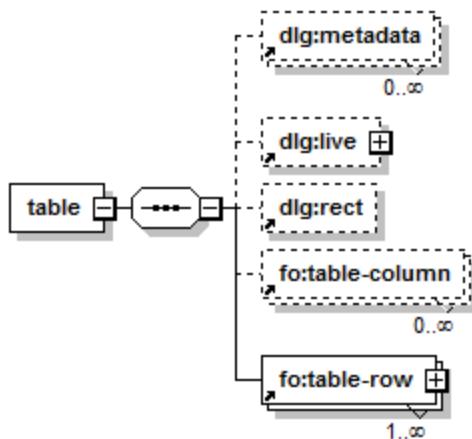
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-language	Enum	<p>The language used when the meta-props-options attribute is set to read-alternate-text or read-object-text. If this attribute is omitted and no other parent object has a language, the default customer language is used. If this attribute is omitted and a parent object has a language, the language specified on the parent object is inherited.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• default—The default customer language</li> <li>• amharic—Amharic</li> <li>• arabic—Arabic</li> <li>• armenian—Armenian</li> <li>• bengali—Bengali</li> <li>• catalan—Catalan</li> <li>• cebuano—Cebuano</li> <li>• chinese—Chinese (PRC)</li> <li>• chinese-tw—Chinese (Taiwan)</li> <li>• chinese-hk—Chinese (Hong Kong SAR)</li> <li>• chinese-sg—Chinese (Singapore)</li> <li>• czech—Czech</li> <li>• danish—Danish</li> <li>• dutch—Dutch</li> <li>• english-us—English (American)</li> <li>• english-au—English (Australian)</li> <li>• english-uk—English (British)</li> <li>• farsi—Farsi (Persian)</li> <li>• finnish—Finnish</li> <li>• french—French</li> <li>• french-creole—French Creole</li> <li>• french-ca—French (Canadian)</li> <li>• german—German</li> <li>• gujarati—Gujarati</li> <li>• hawaiian—Hawaiian</li> <li>• hindi—Hindi</li> <li>• hmong—Hmong</li> </ul>	On the <b>Accessibility</b> tab of the table properties, the <b>Accessibility language</b> list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• hungarian—Hungarian</li> <li>• igbo—Igbo</li> <li>• ilokano—Ilokano</li> <li>• italian—Italian</li> <li>• japanese—Japanese</li> <li>• khmer—Khmer</li> <li>• korean—Korean</li> <li>• kru—Kru</li> <li>• lao—Lao</li> <li>• marshallese—Marshallese</li> <li>• navajo—Navajo</li> <li>• nepali—Nepali</li> <li>• norway—Norwegian</li> <li>• norway-bokmal—Norwegian (Bokmål)</li> <li>• newnorway—Norwegian (Nynorsk)</li> <li>• oromo—Oromo</li> <li>• pohnpeian—Pohnpeian</li> <li>• polish—Polish</li> <li>• portug—Portuguese</li> <li>• brazil—Portuguese (Brazilian)</li> <li>• punjabi—Punjabi</li> <li>• romanian—Romanian</li> <li>• russian—Russian</li> <li>• samoan—Samoan</li> <li>• spanish—Spanish</li> <li>• swedish—Swedish</li> <li>• tagalog—Tagalog</li> <li>• thai—Thai</li> <li>• tongan—Tongan</li> <li>• turkish—Turkish</li> <li>• ukranian—Ukrainian</li> <li>• urdu—Urdu</li> <li>• vietnamese—Vietnamese</li> <li>• yoruba—Yoruba</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-options	Enum	<p>Specifies whether object text or alternate text is read by accessibility tools</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>do-not-read—Do not read object text or alternate text for this object or for any of its child objects.</li> <li>read-alternate-text—Read the alternate text specified for the meta-props-alternate-text attribute.</li> <li>read-object-text—Read the text that is associated with a textual object.</li> </ul>	On the <b>Accessibility</b> tab of the table properties, the <b>Read options</b> list
meta-props-order	Int	The numerical order in which you want this object to be read by accessibility tools when the meta-props-option attribute is set to read-alternate-text or read-object-text	On the <b>Accessibility</b> tab of the table properties, the <b>Read order</b> box
meta-props-pdf-tag	Enum	<p>The type of text that the object contains.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>default—Tag the table with standard table tags</li> <li>division—Tag the table as a layout table</li> </ul>	On the <b>Accessibility</b> tab of the table properties, the <b>Read text as</b> list
table-compose-type	Enum	Not used	
table-type	Enum	<p>Specifies the type of table</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>simple—Use a simple table with no automation.</li> <li>auto—Use a basic automated table with automated rows, headers, and footers.</li> <li>sets—Use an automated table with sections.</li> <li>levels—Use an automated table with levels to enable complex header and footer logic.</li> <li>autoboth—Use an automated table with automated rows and columns.</li> <li>user—Use an automated table with all features enabled.</li> </ul>	The <b>Table Type</b> dialog box, accessed from the <b>Table type</b> icon on the <b>Table</b> tab of the table properties

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>title-height</b>	Int	Not used	
<b>title-pos</b>	Enum	Not used  One of the following: <ul style="list-style-type: none"><li>• none</li><li>• above</li><li>• below</li></ul>	
<b>unicode-script</b>	Enum	The Unicode character set used for the table  One of the following: <ul style="list-style-type: none"><li>• latin</li><li>• hebrew</li><li>• arabic</li></ul>	
<b>unicode-digits</b>	Enum	The Unicode numeric character set used for the table  One of the following: <ul style="list-style-type: none"><li>• ascii</li><li>• arabic-east</li><li>• arabic</li></ul>	

## Structure



## Example

```
<dlg:table anchor="t1" can-split="false" corner-size="4pt" current-angle="0"
delay-comp=
"none" design-var-ndx="0" dynamic="0" embed-info="0" flip-h="false" flip-
v="false"
flow-around="no" flow-break="auto" frame-style="frame" h-auto-size="false"
ignore-relative=
"no" in-available-objects="false" language="Language|0|" lock-
proportions="false"
meta-props-language="default" meta-props-options="read-object-text" meta-
props-order=
"2" meta-props-pdf-tag="division" min-height="0" pen="true" pen-color="rgb
(0,0,0)"
pen-style="solid" pen-width="10lu" pos-rel-to-above="0" ref-id="80001"
reference-name=
"Table" shadow="none" table-type="simple" unicode-digits="ascii" unicode-
script="latin"
v-auto-size="true">
  <dlg:rect bottom="472.90pt" left="27.00pt" right="286.27pt" top=
"98.93pt"/>
  <fo:table-column .../>
  ...
  <fo:table-row ...>
    <fo:table-cell ...>
      ...
      </fo:table-cell>
      <fo:table-cell ...>
        ...
        </fo:table-cell>
    </fo:table-row>
  ...
</dlg:table>
```

## 4.2.42 table-cell (fo:table-cell)

The fo:table-cell element represents a table cell. The column of the cell (or starting column of a spanned cell) is determined by the value specified for the column-number attribute, and the row of the cell (or starting row of a spanned cell) is determined by the parent [fo:table-row](#) element of the cell.

### Parents

[fo:table-row](#)

### Attributes

In addition to the following attributes, the fo:table-cell element uses one or more of the common attributes found in ["Shared XSL-FO Attributes" on page 650](#).

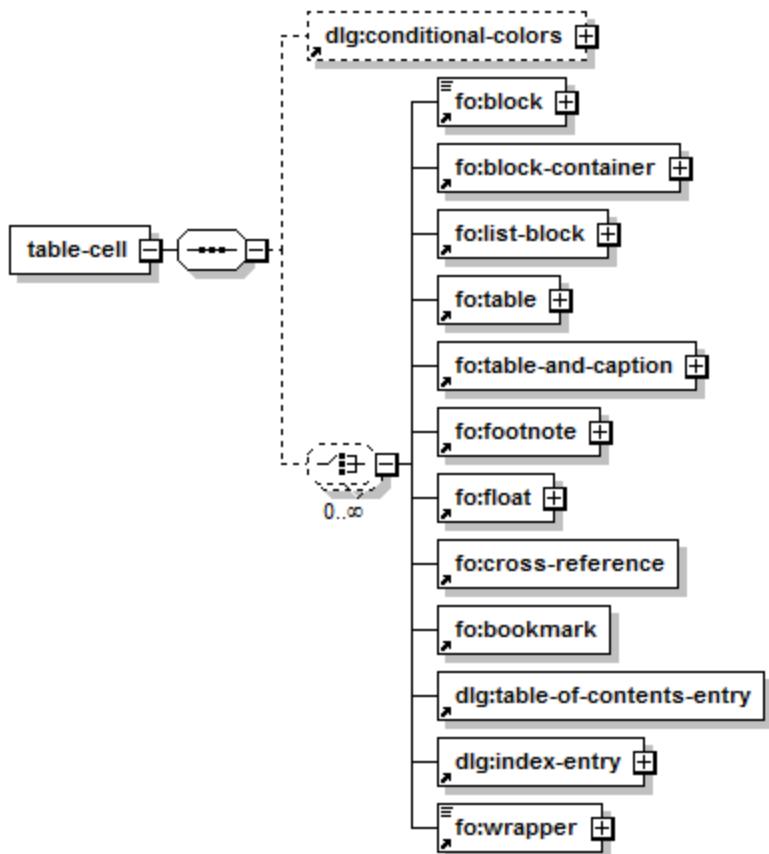
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
column-number	Int	Specifies the number of the first column in which the cell appears in the table. The specified number identifies the column defined by the <a href="#">fo:table-column</a> element that has a matching value for the column-number attribute.	
ends-row	Bool	Not used	
meta-order	Int	Not used	
meta-props-alternate-text	Text	The text that an accessibility tool reads to represent the object when read-alternate-text is specified for the meta-props-options attribute	On the <b>Accessibility</b> tab of the cell properties, the <b>Alternate text</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-language	Enum	<p>The language used when the <code>meta-props-options</code> attribute is set to <code>read-alternate-text</code> or <code>read-object-text</code>. If this attribute is omitted and no other parent object has a language, the default customer language is used. If this attribute is omitted and a parent object has a language, the language specified on the parent object is inherited.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>default</code>—The default customer language</li> <li>• <code>amharic</code>—Amharic</li> <li>• <code>arabic</code>—Arabic</li> <li>• <code>armenian</code>—Armenian</li> <li>• <code>bengali</code>—Bengali</li> <li>• <code>catalan</code>—Catalan</li> <li>• <code>cebuano</code>—Cebuano</li> <li>• <code>chinese</code>—Chinese (PRC)</li> <li>• <code>chinese-tw</code>—Chinese (Taiwan)</li> <li>• <code>chinese-hk</code>—Chinese (Hong Kong SAR)</li> <li>• <code>chinese-sg</code>—Chinese (Singapore)</li> <li>• <code>czech</code>—Czech</li> <li>• <code>danish</code>—Danish</li> <li>• <code>dutch</code>—Dutch</li> <li>• <code>english-us</code>—English (American)</li> <li>• <code>english-au</code>—English (Australian)</li> <li>• <code>english-uk</code>—English (British)</li> <li>• <code>farsi</code>—Farsi (Persian)</li> <li>• <code>finnish</code>—Finnish</li> <li>• <code>french</code>—French</li> <li>• <code>french-creole</code>—French Creole</li> <li>• <code>french-ca</code>—French (Canadian)</li> <li>• <code>german</code>—German</li> <li>• <code>gujarati</code>—Gujarati</li> <li>• <code>hawaiian</code>—Hawaiian</li> <li>• <code>hindi</code>—Hindi</li> <li>• <code>hmong</code>—Hmong</li> </ul>	On the <b>Accessibility</b> tab of the cell properties, the <b>Accessibility language</b> list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• hungarian—Hungarian</li> <li>• igbo—Igbo</li> <li>• ilokano—Ilokano</li> <li>• italian—Italian</li> <li>• japanese—Japanese</li> <li>• khmer—Khmer</li> <li>• korean—Korean</li> <li>• kru—Kru</li> <li>• lao—Lao</li> <li>• marshallese—Marshallese</li> <li>• navajo—Navajo</li> <li>• nepali—Nepali</li> <li>• norway—Norwegian</li> <li>• norway-bokmal—Norwegian (Bokmål)</li> <li>• newnorway—Norwegian (Nynorsk)</li> <li>• oromo—Oromo</li> <li>• pohnpeian—Pohnpeian</li> <li>• polish—Polish</li> <li>• portug—Portuguese</li> <li>• brazil—Portuguese (Brazilian)</li> <li>• punjabi—Punjabi</li> <li>• romanian—Romanian</li> <li>• russian—Russian</li> <li>• samoan—Samoan</li> <li>• spanish—Spanish</li> <li>• swedish—Swedish</li> <li>• tagalog—Tagalog</li> <li>• thai—Thai</li> <li>• tongan—Tongan</li> <li>• turkish—Turkish</li> <li>• ukranian—Ukrainian</li> <li>• urdu—Urdu</li> <li>• vietnamese—Vietnamese</li> <li>• yoruba—Yoruba</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-options	Enum	<p>Specifies whether object text or alternate text is read by accessibility tools</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• do-not-read—Do not read object text or alternate text for this object or for any of its child objects.</li> <li>• read-alternate-text—Read the alternate text specified for the meta-props-alternate-text attribute.</li> <li>• read-object-text—Read the text that is associated with a textual object.</li> </ul>	On the <b>Accessibility</b> tab of the cell properties, the <b>Read options</b> list
meta-props-order	Int	The numerical order in which you want the text to be read by accessibility tools when the meta-props-option attribute is set to <b>read-alternate-text</b> or <b>read-object-text</b>	On the <b>Accessibility</b> tab of the cell properties, the <b>Read order</b> box
meta-props-pdf-tag	Enum	<p>The type of text that the object contains.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• default</li> <li>• table-data-cell</li> <li>• table-header-cell</li> </ul>	On the <b>Accessibility</b> tab of the cell properties, the <b>Read text as</b> list
number-columns-spanned	Int	The number of columns spanned by the cell	
number-rows-spanned	Int	The number of rows spanned by the cell	
starts-row	Bool	Not used	

## Structure



## Example

```
<fo:table-cell border-after-style="none" border-after-width="0lu"
border-before-style="none" border-before-width="0lu"
border-bottom-style="none" border-bottom-width="0lu"
border-end-style="none" border-end-width="0lu" border-left-style="none"
border-left-width="0lu" border-right-style="none"
border-right-width="0lu" border-start-style="none"
border-start-width="0lu" border-top-style="none" border-top-width="0lu"
column-number="2" display-align="auto" height="167lu"
margin-bottom="50lu" margin-left="50lu" margin-right="50lu"
margin-top="50lu" meta-props-language="default"
meta-props-options="read-object-text" meta-props-order="2"
number-columns-spanned="2" number-rows-spanned="1" width="1900lu">
    <fo:block end-indent="0lu" is-comment="false" keep-together="auto"
keep-with-next="auto" line-height="0lu" line-spacing="single"
space-after="0lu" space-before="0lu" start-indent="0lu"
tab-ruler="4" text-align="left" text-indent="0lu"
usage-rule="Rule|0|">
        <fo:inline color="" font-family="Times New Roman"
font-size="10.00pt" font-style="normal" is-comment="false"
letter-spacing="0.00pt"
page-break-before="auto">Spanned cell R2C2-R2C3</fo:inline>
    </fo:block>
</fo:table-cell>
```

## 4.2.43 table-column (fo:table-column)

The `fo:table-column` element defines a column in a table. This element does not contain cells; cells are instead defined by `fo:table-cell` elements contained within `fo:table-row` elements, and the `column-number` attribute of each `fo:table-cell` element identifies the column to which the cell belongs.

### Parents

`dlg:table`

### Attributes

In addition to the following attributes, the `fo:table-column` element uses one or more of the common attributes found in “[Shared XSL-FO Attributes](#)” on page 650.

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>column-number</code>	Int	The number of the column in the table	
<code>column-width</code>	Int	The width, in logical units, of the column	On the <b>Column Properties</b> tab of the table column properties, the <b>Width</b> box
<code>number-columns-repeated</code>	Int	Not used	
<code>number-columns-spanned</code>	Int	Not used	
<code>usage-rule</code>	Ref	A reference to the rule that determines the inclusion of the column for a customer	The <b>Rule</b> tab of the <b>Text paragraph properties</b> dialog box

### Structure

`table-column`

## Example

```
<fo:table-column border-after-style="none" border-after-width="0lu"
border-before-style="none" border-before-width="0lu"
border-bottom-style="none" border-bottom-width="0lu"
border-end-style="none" border-end-width="0lu" border-left-style="none"
border-left-width="0lu" border-right-style="none"
border-right-width="0lu" border-start-style="none"
border-start-width="0lu" border-top-style="none" border-top-width="0lu"
column-number="1" column-width="1000lu" usage-rule="Rule|0|"/>
```

## 4.2.44 table-row (fo:table-row)

The fo:table-row element represents a row in a table and contains the [fo:table-cell](#) elements that represent the cells in the row.

### Parents

[dlg:table](#)

### Attributes

In addition to the following attributes, the fo:table-row element uses one or more of the common attributes found in “[Shared XSL-FO Attributes](#)” on page 650.

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
adjustable-cell-width	Bool	When true is specified for the adjustable-cell-width attribute, specifies that the width of the cells in the row can be adjusted independently of the table columns	On the <b>Row Properties</b> tab of the row properties, the <b>Cell widths are adjustable</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
auto-row-column-flow	Enum	<p>When any value except <code>specified</code> is specified for the <code>auto-row-process</code> attribute, and the same variable is used in multiple cells of the repeated row, specifies the order in which the cells are populated with data from the variable</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>column</code>—First, fill data down the column in which the variable is first used, creating rows as necessary, and then fill data down subsequent columns in which the variable is used.</li> <li>• <code>row</code>—First, fill data across the row in all columns in which the variable is used, and then create additional rows and fill data in these rows as necessary.</li> <li>• <code>none</code>—Duplicate the data for each column in which the variable is used.</li> <li>• <code>serpentine</code>—Repeat the number of cells specified for the <code>auto-row-serpentine-cells</code> attribute across each row the number of times specified for the <code>auto-row-repeat-var-count</code> attribute. This setting is valid only when <code>true</code> is specified for the <code>can-split</code> attribute of the parent <code>dlg:table</code> element.</li> <li>• <code>serpentine-spaced</code>—Repeat the number of cells specified for the <code>auto-row-serpentine-cells</code> attribute across each row the number of times specified for the <code>auto-row-repeat-var-count</code> attribute, and leave a cell between each group. This setting is valid only when <code>true</code> is specified for the <code>can-split</code> attribute of the parent <code>dlg:table</code> element.</li> </ul>	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Multi-column flow method</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
auto-row-filter	Text	When var-filter-not-equal or var-filter-equal is specified for the auto-row-process attribute, specifies one of the following, based on the value of the auto-row-special-row-props attribute: <ul style="list-style-type: none"> <li>• When any value except make-multiple-sections is specified for the auto-row-special-row-props attribute, the value of the variable referenced by the auto-row-ref-var attribute used to filter the repeated rows</li> <li>• When make-multiple-sections is specified for the auto-row-special-row-props attribute, the value of the variable referenced by the auto-row-ref-var attribute used to determine when the table breaks for a new section</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>• On the <b>Automated Row Properties</b> tab of the row properties, when <b>Automated Row</b> is selected from the <b>Row type</b> drop-down list, and the <b>Create multiple table sections from single array (must begin with header)</b> check box is not selected, the <b>Variable</b> box in the <b>Repeat criteria</b> area</li> <li>• On the <b>Automated Row Properties</b> tab of the row properties, when a header type is selected from the <b>Row type</b> drop-down list and the <b>Create multiple table sections from single array (must begin with header)</b> check box is selected, the <b>Variable filter</b> box</li> </ul>
auto-row-grouped	Bool	When none or row is specified for the row-type attribute, specifies whether the row is grouped with the previous row	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Group with previous row</b> check box
auto-row-grouped-mode	Int		
auto-row-include-higher	Enum	When a value of 2 or greater is specified for the auto-row-level attribute, specifies whether headers from higher-level sections in the table are included for this level <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not include headers from higher levels. (Space is still reserved in the output if true is specified for the auto-row-repeat-headers attribute.)</li> <li>• yes—Include headers from higher levels, up to the level specified for the auto-row-include-level attribute.</li> </ul>	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Include headers from higher levels</b> check box
auto-row-include-level	Int	When yes is specified for the auto-row-include-higher attribute, the section level from which to include higher-level headers	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Include headers from higher levels</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
auto-row-level	Int	When true is specified for the auto-row-section-begin attribute and levels or user is specified for the table-type attribute of the parent <code>dlg:table</code> element, the hierarchical level of the table section that is begun by the row	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Level of this table section</b> drop down list
auto-row-num-div-repeat-rows	Int	When divide-row is specified for the row-type attribute, the number of rows that are placed before the divider row is repeated	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Repeat after number of data</b> box
auto-row-num-repeat	Int	When specified is specified for the auto-row-process attribute, specifies one of the following, based on the value of the auto-row-special-row-props attribute: <ul style="list-style-type: none"> <li>• When any value except make-multiple-sections is specified for the auto-row-special-row-props attribute, the number of times to repeat the row</li> <li>• When make-multiple-sections is specified for the auto-row-special-row-props attribute, the number of rows to include before breaking the table for a new table section</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>• On the <b>Automated Row Properties</b> tab of the row properties, when <b>Automated Row</b> is selected from the <b>Row type</b> drop-down list, and the <b>Create multiple table sections from single array (must begin with header)</b> check box is not selected, the <b>Repeat count</b> box</li> <li>• On the <b>Automated Row Properties</b> tab of the row properties, when a header type is selected from the <b>Row type</b> drop-down list and the <b>Create multiple table sections from single array (must begin with header)</b> check box is selected, the <b>Number per break</b> box</li> </ul>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
auto-row-overlap	Enum	<p>When header, header-top-flow-frame, header-middle-flow-frame, rpt-header, rpt-header-not-first, header-first-onpage, or header-not-first-onpage is specified for the row-type attribute, specifies whether the header row overlaps the row below it, and how it is aligned</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• overlap-none—The header row does not overlap the row below it.</li> <li>• overlap-top—The header row overlaps the row below it, and text in the overlapping header is aligned at the top of the row.</li> <li>• overlap-center—The header row overlaps the row below it, and text in the overlapping header is aligned at the center of the row.</li> <li>• overlap-bottom—The header row overlaps the row below it, and text in the overlapping header is aligned at the bottom of the row.</li> </ul>	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Overlapping header</b> drop down list
auto-row-page-begin	Bool	When true is specified for the auto-row-section-begin attribute, specifies whether the row starts a new page	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Break flow</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
auto-row-process	Enum	<p>Specifies one of the following, based on the value of the <code>row-type</code> and <code>auto-row-special-row-props</code> attributes:</p> <ul style="list-style-type: none"> <li>When <code>row</code> is specified for the <code>row-type</code> attribute, and any value except <code>make-multiple-sections</code> is specified for the <code>auto-row-special-row-props</code> attribute, this attribute specifies how the row is repeated, using one of the following settings:           <ul style="list-style-type: none"> <li><code>specified</code>—Repeat the row the number of times specified for the <code>auto-row-num-repeat</code> attribute.</li> <li><code>variable-count</code>—Repeat the row based on the number of elements in an array variable referenced by the <code>auto-row-ref-var</code> attribute.</li> <li><code>var-filter-not-equal</code>—Repeat the row based on the number of elements in an array variable referenced by the <code>auto-row-ref-var</code> attribute, but skip rows in which the value of the array element is not equal to the value specified for the <code>auto-row-filter</code> attribute.</li> <li><code>var-filter-equal</code>—Repeat the row based on the number of elements in an array variable referenced by the <code>auto-row-ref-var</code> attribute, but skip rows in which the value of the array element is equal to the value specified for the <code>auto-row-filter</code> attribute.</li> <li><code>variable-value</code>—Repeat the row based on the numeric value of a variable referenced by the <code>auto-row-ref-var</code> attribute.</li> </ul> </li> <li>When <code>header</code>, <code>header-top-flow-frame</code>, <code>header-middle-flow-frame</code>, <code>rpt-header</code>, <code>rpt-header-not-first</code>, <code>header-first-onpage</code>, or <code>header-not-first-onpage</code> is specified for the <code>row-type</code> attribute, and <code>make-multiple-sections</code> is specified for the <code>auto-row-special-row-</code></li> </ul>	<p>One of the following:</p> <ul style="list-style-type: none"> <li>On the <b>Automated Row Properties</b> tab of the row properties, when <b>Automated Row</b> is selected from the <b>Row type</b> drop-down list, and the <b>Create multiple table sections from single array (must begin with header)</b> check box is not selected, the <b>Repeat method</b> drop-down list</li> <li>On the <b>Automated Row Properties</b> tab of the row properties, when a header type is selected from the <b>Row type</b> drop-down list and the <b>Create multiple table sections from single array (must begin with header)</b> check box is selected, the <b>Break method</b> drop-down list</li> </ul>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<p>props attribute, this attribute specifies how the table is broken into sections, using one of the following settings:</p> <ul style="list-style-type: none"> <li>• <b>specified</b>—Break the table after the number of rows specified by the <code>auto-row-num-repeat</code> attribute.</li> <li>• <b>variable-count</b>—Break the table when the variable referenced by the <code>auto-row-ref-var</code> attribute changes value.</li> <li>• <b>var-filter-not-equal</b>—Break the table when the value of the variable referenced by the <code>auto-row-ref-var</code> attribute does not equal the value specified for the <code>auto-row-filter</code> attribute.</li> <li>• <b>var-filter-equal</b>—Break the table when the value of the variable referenced by the <code>auto-row-ref-var</code> attribute equals the value specified for the <code>auto-row-filter</code> attribute.</li> <li>• <b>variable-value</b>—Break the table after the number of rows that matches the number of elements in the variable referenced by the <code>auto-row-ref-var</code> attribute.</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
auto-row-ref-var	Ref	When variable-count, var-filter-not-equal, var-filter-equal, or variable-value is specified for the auto-row-process attribute, specifies one of the following, based on the value of the auto-row-special-row-props attribute: <ul style="list-style-type: none"> <li>When any value except make-multiple-sections is specified for the auto-row-special-row-props attribute, a reference to the variable that controls the repetition of the row</li> <li>When make-multiple-sections is specified for the auto-row-special-row-props attribute, a reference to the variable that controls how the table breaks for a new table section</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>On the <b>Automated Row Properties</b> tab of the row properties, when <b>Automated Row</b> is selected from the <b>Row type</b> drop-down list, and the <b>Create multiple table sections from single array (must begin with header)</b> check box is not selected, the <b>Repeat variable</b> drop-down list</li> <li>On the <b>Automated Row Properties</b> tab of the row properties, when a header type is selected from the <b>Row type</b> drop-down list and the <b>Create multiple table sections from single array (must begin with header)</b> check box is selected, the <b>Variable</b> drop-down list in the <b>Row breaks</b> area</li> </ul>
auto-row-repeat-headers	Bool	When true is specified for the auto-row-section-begin attribute and levels or user is specified for the table-type attribute of the parent <code>dlg:table</code> element, specifies whether headers in the section that begins at this row repeat in lower-level sections	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Repeat headers on lower levels</b> check box
auto-row-repeat-var-count	Int	When serpentine or serpentine-spaced is specified for the auto-row-column-flow attribute, the number of times that the group of cells is repeated across each row	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Number of serpentine</b> box
auto-row-section-begin	Bool	When sets, levels, or user is specified for the table-type attribute of the parent <code>dlg:table</code> element, specifies whether the row begins a table section	On the <b>Automated Row Properties</b> tab of the row properties, the <b>First row of table section</b> check box
auto-row-section-max-rows	Int	When true is specified for the auto-row-section-begin attribute, specifies the maximum number of rows from this section allowed on each page. If 0 is specified for this attribute, or if this attribute is omitted, no limit is placed on the number of rows placed on each page.	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Limit number of rows per page</b> check box and box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
auto-row-section-name	Text	When named or named-first is specified for the auto-row-section-use attribute, the name of the data section that determines whether the table section that is started by this row is included	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Data section</b> box
auto-row-section-orphan	Int	When true is specified for the auto-row-section-begin attribute, specifies the number of table rows in the section begun by this row that must be able to appear before and after a page break in order for the section to be split. If 1 is specified for this attribute, or if this attribute is omitted, widows and orphans that consist of only one table row are allowed.	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Window and orphan rows</b> check box and box
auto-row-section-ref-var	Ref	When variable-count, variable-value, variable-count-not, or variable-value-not is specified for the auto-row-section-use attribute, the variable that determines whether the section is included	On the <b>Automated Row Properties</b> tab of the row properties, in the <b>Table section (set of rows)</b> area, the <b>Variable</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
auto-row-section-use	Enum	<p>When <code>true</code> is specified for the <code>auto-row-section-begin</code> attribute, specifies when the table section begun by this row is included</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>always</code>—Always include the section.</li> <li>• <code>variable-count</code>—Include the section when the variable referenced by the <code>auto-row-section-ref-var</code> attribute contains data for the customer.</li> <li>• <code>variable-value</code>—Include the section when the value of the variable referenced by the <code>auto-row-section-ref-var</code> attribute is greater than 0.</li> <li>• <code>variable-count-not</code>—Include the section when the variable referenced by the <code>auto-row-section-ref-var</code> attribute does not contain data for the customer.</li> <li>• <code>variable-value-not</code>—Include the section when the value of the variable referenced by the <code>auto-row-section-ref-var</code> attribute is 0.</li> <li>• <code>named</code>—Include the section each time the data section specified for the <code>auto-row-section-name</code> is read in the customer data. This setting is valid only when <code>true</code> is specified for the <code>enable-data-sections</code> attribute of the parent <code>dlg:table</code> element.</li> <li>• <code>named-first</code>—Include the section the first time the data section specified for the <code>auto-row-section-name</code> is read in the customer data. This setting is valid only when <code>true</code> is specified for the <code>enable-data-sections</code> attribute of the parent <code>dlg:table</code> element.</li> <li>• <code>level</code>—Include the section each time another section follows it.</li> <li>• <code>level-first</code>—Include the section the first time another section follows it.</li> <li>• <code>end-of-customer</code>—Include the section after all data sections are read in the data. This setting is valid only when <code>true</code> is specified for the <code>enable-data-sections</code> attribute of the parent <code>dlg:table</code> element.</li> </ul>	On the <b>Automated Row Properties</b> tab of the row properties, the <b>When to include section</b> drop-down list

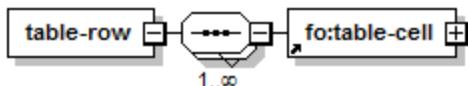
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
auto-row-serpentine-cells	Int	When serpentine or serpentine-spaced is specified for the auto-row-column-flow attribute, the number of cells in the group that is repeated across the row	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Number of serpentine</b> box
auto-row-special-row-props	Enum	<p>When true is specified for the auto-row-section-begin attribute, specifies special section properties for the section begun by this row</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not set special properties.</li> <li>• add-to-previous—Add data from this table section to the previous table section at the same level so that the table sections are treated as a single section. When this setting is specified for this attribute, the auto-row-include-higher, auto-row-include-level, auto-row-page-begin, auto-row-section-max-rows, and auto-row-section-orphan attributes are not used, and the values specified for those attributes in the fo:table-row element that begins the previous table section also apply to this table section. This setting is valid only when named, named-first, or end-of-customer is specified for the auto-row-section-use attribute.</li> <li>• make-multiple-sections—Automatically create table sections based on an array variable.</li> </ul>	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Add to previous table section (to combine data sections for flow)</b> and <b>Create multiple table sections from single array (must begin with header)</b> check boxes
fixed-height	Bool	Specifies whether the row height is fixed during the engine run	On the <b>Row Properties</b> tab of the row properties, the <b>Fixed height in Engine</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
row-type	Enum	<p>The type of automated row</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>none—Use the row as a static row. This setting is valid for all values of the <code>table-type</code> attribute of the parent <code>dlg:table</code> element. When <code>simple</code> is specified for the <code>table-type</code> attribute of the parent <code>dlg:table</code> element, this is the only valid setting.</li> <li>row—Use the row as a data row that repeats, based on repeat criteria defined for the row. This setting is valid when <code>auto</code>, <code>sets</code>, <code>levels</code>, <code>autoboth</code>, or <code>user</code> is specified for the <code>table-type</code> attribute of the parent <code>dlg:table</code> element.</li> <li>header—Use the row for a header row that appears only once, at the start of the table. This setting is valid when <code>auto</code>, <code>sets</code>, <code>levels</code>, <code>autoboth</code>, or <code>user</code> is specified for the <code>table-type</code> attribute of the parent <code>dlg:table</code> element.</li> <li>header-top-flow-frame—Use the row for a header row that appears only if the table is located at the top of a flow frame. This setting is valid when <code>sets</code>, <code>levels</code>, or <code>user</code> is specified for the <code>table-type</code> attribute of the parent <code>dlg:table</code> element.</li> <li>header-middle-flow-frame—Use the row as a header row that appears only when sections are applied to the table and only when it is not the first occurrence of the section on the page. This setting is valid when <code>sets</code>, <code>levels</code>, or <code>user</code> is specified for the <code>table-type</code> attribute of the parent <code>dlg:table</code> element.</li> <li>rpt-header—Use the row as a header row that appears each time the table flows to another page. This setting is valid when <code>auto</code>, <code>sets</code>, <code>levels</code>, <code>autoboth</code>, or <code>user</code> is specified for the <code>table-type</code> attribute of the parent <code>dlg:table</code> element.</li> <li>rpt-header-not-first—Use the row as a header row that appears each time the table flows to another page, but not on the first page. This setting is valid</li> </ul>	On the <b>Automated Row Properties</b> tab of the row properties, the <b>Row type</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<p>when auto, sets, levels, autoboth, or user is specified for the table-type attribute of the parent <a href="#">dlg:table</a> element.</p> <ul style="list-style-type: none"> <li>• header-first-onpage—Use the row as a header row that appears only when sections are applied to the table and only when it is the first occurrence of the section on the page. This setting is valid when sets, levels, or user is specified for the table-type attribute of the parent <a href="#">dlg:table</a> element.</li> <li>• header-not-first-onpage—Use the row as a header row that appears only when sections are applied to the table and only when it is not the first occurrence of the section on the page. This setting is valid when sets, levels, or user is specified for the table-type attribute of the parent <a href="#">dlg:table</a> element.</li> <li>• divide-row—Use the row as a divider row that repeats after groups of data rows. This setting is valid when auto, sets, levels, autoboth, or user is specified for the table-type attribute of the parent <a href="#">dlg:table</a> element.</li> <li>• footer—Use the row for a footer row that appears only once, at the end of the table. This setting is valid when auto, sets, levels, autoboth, or user is specified for the table-type attribute of the parent <a href="#">dlg:table</a> element.</li> <li>• rpt-footer—Use the row as a footer row that appears each time the table flows to another page. This setting is valid when auto, sets, levels, autoboth, or user is specified for the table-type attribute of the parent <a href="#">dlg:table</a> element.</li> <li>• rpt-footer-not-last—Use the row as a footer row that appears each time the table flows to another page, but not on the last page. This setting is valid when auto, sets, levels, autoboth, or user is specified for the table-type attribute of the parent <a href="#">dlg:table</a> element.</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• <b>footer-subsections</b>—Use the row as a footer row that appears after each subsection. This setting is valid when <b>sets</b>, <b>levels</b>, or <b>user</b> is specified for the <b>table-type</b> attribute of the parent <a href="#">dlg:table</a> element.</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <b>table-header</b></li> <li>• <b>rpt-table-footer</b></li> <li>• <b>rpt-table-footer-not-last</b></li> <li>• <b>rpt-table-header</b></li> <li>• <b>rpt-table-header-not-first</b></li> <li>• <b>table-footer</b></li> <li>• <b>table-row</b></li> </ul>	
<b>usage-rule</b>	Ref	A reference to the rule that determines whether the row is included for a customer	The <b>Rule</b> tab of the <a href="#">Text paragraph properties</a> dialog box

## Structure



## Example

```
<fo:table-row border-after-style="none" border-after-width="0lu"
border-before-style="none" border-before-width="0lu"
border-bottom-style="none" border-bottom-width="0lu" border-end-style=
"none" border-end-width="0lu" border-left-style="none"
border-left-width="0lu" border-right-style="none" border-right-width=
"0lu" border-start-style="none" border-start-width="0lu"
border-top-style="none" border-top-width="0lu" fixed-height="false"
height="267lu" row-type="none">
    <fo:table-cell ... column-number="1" ...>
        <fo:block ...>
            ...
        </fo:block>
    </fo:table-cell>
    <fo:table-cell ... column-number="2" ...>
        <fo:block ...>
            ...
        </fo:block>
    </fo:table-cell>
    <fo:table-cell ... column-number="3" ...>
        <fo:block ...>
            ...
        </fo:block>
    </fo:table-cell>
</fo:table-row>
```

## 4.2.45 tab-ruler (dlg:tab-ruler)

The `dlg:tab-ruler` element defines custom tab rulers for a page, and custom tab rulers and list-related properties for individual text paragraphs (not Exstream paragraph objects) defined by `fo:block` elements.

You can define tab rulers for individual `fo:block` elements in two ways:

- Identify a `dlg:tab-ruler` within the `fo:declarations` element for the page using the `tab-ruler` attribute of the `fo:block` element.
- Define the tab ruler directly within the `fo:block` element.

Keep in mind that you must use a separate `dlg:tab-ruler` element for each `fo:block` that represents a separate item in a numbered list. Even when `auto` or `never-restart` is specified for the `user-set-number` attribute, you must set the number of the list item using the `number-value` attribute.

## Parents

`fo:block`  
`fo:declarations`

## Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>bold-font</code>	Bool	Not used	
<code>bullet-font</code>	Int		
<code>bullet-font-size</code>	Int	Not used	
<code>color-bullet</code>	Color	When <code>bullet</code> or <code>number</code> is specified for the <code>list-type</code> attribute, and <code>true</code> is specified for the <code>user-set-color</code> attribute, the color of the bullet or number	In the <b>Numbering Properties</b> dialog box (accessed from the <b>Format &gt; Numbering</b> menu selection) or the <b>Bullet Properties</b> dialog box (accessed from the <b>Format &gt; Bullets</b> menu selection), the color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
default-tab	Int	The default tab spacing, in logical units. All tabs after the rightmost tab specified by a child <code>dlg:tab-stop</code> element occur at the interval specified by this attribute. If no child <code>dlg:tab-stop</code> elements are used, all tabs occur at the specified interval.	On the <b>Text paragraph properties</b> tab of the text paragraph properties, the <b>Tab size</b> box, or, in the <b>Tab Properties</b> dialog box, the <b>Default tab size</b> box
font-family	Text	When <code>bullet</code> or <code>number</code> is specified for the <code>list-type</code> attribute, the name of the fontface used for the bullet	In the <b>View Character Set</b> dialog box (accessed from the symbol box in the <b>Bullet Properties</b> dialog box, which is itself accessed from the <b>Format &gt; Bullets</b> menu selection), the font drop-down list
hierarchical	Bool	When <code>bullet</code> or <code>number</code> is specified for the <code>list-type</code> attribute, specifies whether hierarchical numbering (1.1, 1.1.1, and so on) is used for a sub-numbered list item	In the <b>Numbering Properties</b> dialog box (accessed from the <b>Format &gt; Numbering</b> menu selection), the <b>Hierarchical numbering</b> check box
id	Text	When the <code>dlg:tab-ruler</code> element is a child of an <code>fo:declarations</code> element, the ID number used to associate it with an <code>fo:block</code> element using the <code>tab-ruler</code> attribute of the <code>fo:block</code> element	
list-type	Enum	<p>Specifies whether the associated text paragraph is a list item and whether it is a bulleted or numbered list item</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—The associated text paragraph is not a list item.</li> <li>• <code>bullet</code>—The associated text paragraph is a bulleted list item.</li> <li>• <code>number</code>—The associated text paragraph is a numbered list item.</li> </ul>	 and  The  and  toolbar buttons
number-color	Int		
number-indent	Int	When <code>bullet</code> or <code>number</code> is specified for the <code>list-type</code> attribute, the level of the associated list item in the list hierarchy	 and  The  and  toolbar buttons

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
number-string	Text	When bullet or number is specified for the list-type attribute, the character or characters used for the bullet or number of the list item. May be omitted for numbered list items when a value is specified for the number-value attribute.	In the <b>View Character Set</b> dialog box (accessed from the symbol box in the <b>Bullet Properties</b> dialog box, which is itself accessed from the <b>Format &gt; Bullets</b> menu selection), the character selection grid. This string is determined automatically in a numbered list.

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
number-type	Enum	<p>When <code>number</code> is specified for the <code>list-type</code> attribute, the type of numbering used for a numbered list item. When <code>bullet</code> is specified for the <code>list-type</code> attribute, this attribute should be omitted or should be specified as <code>bullet</code>.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>bullet</code>—Use a bullet. Only valid when <code>bullet</code> is specified for the <code>list-type</code> attribute.</li> <li>• <code>num</code>—Use 1., 2., 3., and so on.</li> <li>• <code>alpha-upper</code>—Use A., B., C., and so on.</li> <li>• <code>alpha-lower</code>—Use a., b., c., and so on.</li> <li>• <code>roman-upper</code>—Use I., II., III., and so on.</li> <li>• <code>roman-lower</code>—Use i., ii., iii., and so on.</li> <li>• <code>text-upper</code>—Use ONE., TWO., THREE., and so on.</li> <li>• <code>text-lower</code>—Use one., two., three., and so on.</li> <li>• <code>text-mixed</code>—Use One., Two., Three., and so on.</li> <li>• <code>num-ordinal</code>—Use 1st., 2nd., 3rd., and so on.</li> <li>• <code>num-paren</code>—Use 1), 2), 3), and so on.</li> <li>• <code>alpha-upper-paren</code>—Use A), B), C), and so on.</li> <li>• <code>alpha-lower-paren</code>—Use a), b), c), and so on.</li> <li>• <code>roman-upper-paren</code>—Use I), II), III), and so on.</li> <li>• <code>roman-lower-paren</code>—Use i), ii), iii), and so on.</li> <li>• <code>num-double-paren</code>—Use (1), (2), (3), and so on.</li> <li>• <code>alpha-upper-double-paren</code>—Use (A), (B), (C), and so on.</li> <li>• <code>alpha-lower-double-paren</code>—Use (a), (b), (c), and so on.</li> <li>• <code>roman-upper-double-paren</code>—Use (I), (II), (III), and so on.</li> </ul>	In the <b>Numbering Properties</b> dialog box (accessed from the <b>Format &gt; Numbering</b> menu selection), the <b>Default numbering method</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li><code>roman-lower-double-paren</code>—Use (i), (ii), (iii), and so on.</li> </ul>	
<code>number-value</code>	Int	When <code>number</code> is specified for the <code>list-type</code> attribute, the numeric value of the list item. The value must be specified even when <code>auto</code> or <code>never-restart</code> is specified for the <code>user-set-number</code> attribute.	In the <b>Numbering Properties</b> dialog box (accessed from the <b>Format &gt; Numbering</b> menu selection), the <b>Numbering</b> box
<code>user-set-color</code>	Bool	When <code>bullet</code> or <code>number</code> is specified for the <code>list-type</code> attribute, specifies whether the bullet or number color is determined by the value of the <code>color-bullet</code> attribute. When <code>false</code> is specified for the <code>user-set-color</code> attribute, the default color is used, regardless of the value of the <code>color-bullet</code> attribute.	In the <b>Numbering Properties</b> dialog box (accessed from the <b>Format &gt; Numbering</b> menu selection) or the <b>Bullet Properties</b> dialog box (accessed from the <b>Format &gt; Bullets</b> menu selection), the <b>Default color</b> check box. The check box is checked when <code>false</code> is specified for this attribute.
<code>user-set-number</code>	Enum	<p>When <code>number</code> is specified for the <code>list-type</code> attribute, specifies how the numbering continues or restarts for the associated list item. Keep in mind that this setting only affects automatic numbering in Designer, after DXF is imported or before it is exported. In the DXF itself, all items in a numbered list must be numbered explicitly using the <code>number-value</code> attribute.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>auto</code>—Numbering for the associated list item is automatically set in Designer.</li> <li><code>restart</code>—Numbering for the associated list item is restarted at the value specified for the <code>number-value</code> attribute in Designer.</li> <li><code>never-restart</code>—Numbering for the associated list item is continued from a previous list item (even in a different list) in Designer.</li> </ul>	In the <b>Numbering Properties</b> dialog box (accessed from the <b>Format &gt; Numbering</b> menu selection), the <b>Numbering</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
user-set-type	Bool	When <code>bullet</code> is specified for the <code>list-type</code> attribute, specifies whether the bullet symbol is determined by the value of the <code>number-string</code> attribute. When <code>number</code> is specified for the <code>list-type</code> attribute, specifies whether the type of numbering is determined by the value of the <code>number-type</code> attribute. When <code>false</code> is specified for the <code>user-set-type</code> attribute, the default bullet symbol or numbering type is used, regardless of the values of the <code>number-string</code> and <code>number-type</code> attributes.	In the <b>Bullet Properties</b> dialog box (accessed from the <b>Format &gt; Bullets</b> menu selection), the <b>Default symbol</b> check box, or, in the <b>Numbering Properties</b> dialog box (accessed from the <b>Format &gt; Numbering</b> menu selection), the <b>Default numbering method</b> check box. The corresponding check box is checked when <code>false</code> is specified for this attribute.

## Structure



## Examples

### Tab ruler configuration, and referencing a **dlg:tab-ruler** element in the **fo:declarations** element:

```
<dlg:page ...>
  ...
  <fo:declarations>
    <dlg:tab-ruler default-tab="250u" id="7" list-type="none">
      <dlg:tab-stop tab-align="center" tab-char="0" tab-indent=
      "2500u"/>
      <dlg:tab-stop align-on"." tab-align="align-on" tab-char="0"
      tab-indent="4000u"/>
    </dlg:tab-ruler>
  </fo:declarations>
  ...
  <dlg:objects>
    <dlg:text ...>
    ...
    <fo:flow ...>
      <fo:block tab-ruler="7" text-align="left">
        <fo:inline font-family="Times New Roman" font-size=
        "10.00pt" font-style="normal">This is text before a tab.
        Center-aligned tab 3.14159</fo:inline>
      </fo:block>
    </fo:flow>
    </dlg:text>
  </dlg:objects>
</dlg:page>
```

### List configuration, and using a **dlg:tab-ruler** element directly within an **fo:block** element:

```
<dlg:text ...>
  ...
  <fo:flow ...>
    <fo:block text-align="left">
      <dlg:tab-ruler default-tab="250u" hierarchical="false"
      list-type="number" number-indent="1" number-type="num"
      number-value="1" user-set-color="false" user-set-number=
      "auto" user-set-type="false"/>
      <fo:inline color="" font-family="Times New Roman" font-size=
      "10.00pt" font-style="normal" letter-spacing="0.00pt">First
      list item</fo:inline>
    </fo:block>
    <fo:block text-align="left">
      <dlg:tab-ruler color-bullet="rgb(0,0,192)" default-tab="250u"
```

```
hierarchical="false" list-type="number" number-color="1"
number-indent="2" number-type="alpha-upper" number-value="1"
user-set-color="true" user-set-number="auto" user-set-type=
"true"/>
<fo:inline color="" font-family="Times New Roman" font-size=
"10.00pt" font-style="normal" letter-spacing="0.00pt">First
sub-item</fo:inline>
</fo:block>
<fo:block text-align="left">
<dlg:tab-ruler color-bullet="rgb(0,0,192)" default-tab="250u"
hierarchical="false" list-type="number" number-color="1"
number-indent="2" number-type="alpha-upper" number-value="2"
user-set-color="true" user-set-number="auto" user-set-type=
"true"/>
<fo:inline color="" font-family="Times New Roman" font-size=
"10.00pt" font-style="normal" letter-spacing="0.00pt">Second
sub-item</fo:inline>
</fo:block>
<fo:block text-align="left">
<dlg:tab-ruler color-bullet="rgb(0,0,192)" default-tab="250u"
hierarchical="false" list-type="number" number-color="1"
number-indent="2" number-type="alpha-upper" number-value="3"
user-set-color="true" user-set-number="auto" user-set-type=
"true"/>
<fo:inline color="" font-family="Times New Roman" font-size=
"10.00pt" font-style="normal" letter-spacing="0.00pt">Third
sub-item</fo:inline>
</fo:block>
<fo:block text-align="left">
<dlg:tab-ruler default-tab="250u" hierarchical="false"
list-type="number" number-indent="1" number-type="num"
number-value="2" user-set-color="false" user-set-number=
"auto" user-set-type="false"/>
<fo:inline color="" font-family="Times New Roman" font-size=
"10.00pt" font-style="normal" letter-spacing="0.00pt">Second
list item</fo:inline>
</fo:block>
<fo:block text-align="left">
<dlg:tab-ruler default-tab="250u" hierarchical="false"
list-type="number" number-indent="1" number-type="num"
number-value="3" user-set-color="false" user-set-number=
"auto" user-set-type="false"/>
<fo:inline color="" font-family="Times New Roman" font-size=
"10.00pt" font-style="normal" letter-spacing="0.00pt">Third
list item</fo:inline>
</fo:block>
</fo:flow>
</dlg:text>
```

## 4.2.46 tab-stop (dlg:tab-stop)

The `dlg:tab-stop` element defines a tab stop on a tab ruler.

### Parents

`dlg:tab-ruler`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>align-on</code>	Text	When <code>align-on</code> is specified for the <code>tab-align</code> attribute, the character on which text is aligned at the tab stop	
<code>tab-align</code>	Enum	The alignment of text at the tab stop  One of the following: <ul style="list-style-type: none"><li>• <code>left</code>—Left-align text at the tab stop.</li><li>• <code>right</code>—Right-align text at the tab stop.</li><li>• <code>center</code>—Center-align text at the tab stop.</li><li>• <code>align-on</code>—Align text on the character specified for the <code>align-on</code> attribute at the tab stop.</li></ul>	In the <b>Tab Properties</b> dialog box, the <b>Align</b> box. The <b>Decimal</b> setting is equivalent to specifying <code>align-on</code> for this attribute and the decimal character for the appropriate locale for the <code>align-on</code> attribute.
<code>tab-char</code>	Text	Not used	
<code>tab-indent</code>	Num	The distance, in logical units, of the tab stop from the left margin	In the <b>Tab Properties</b> dialog box, the <b>Position</b> box

### Structure

`tab-stop`

## Example

```
<dlg:page ...>
  ...
  <fo:declarations>
    <dlg:tab-ruler default-tab="250u" id="7" list-type="none">
      <dlg:tab-stop tab-align="center" tab-char="0" tab-indent=
        "2500u"/>
      <dlg:tab-stop align-on"." tab-align="align-on" tab-char="0"
        tab-indent="4000u"/>
    </dlg:tab-ruler>
  </fo:declarations>
  ...
  <dlg:objects>
    <dlg:text ...>
      ...
      <fo:flow ...>
        <fo:block tab-ruler="7" text-align="left">
          <fo:inline font-family="Times New Roman" font-size=
            "10.00pt" font-style="normal">This is text before a tab.
          Center-aligned tab 3.14159</fo:inline>
        </fo:block>
      </fo:flow>
    </dlg:text>
  </dlg:objects>
</dlg:page>
```

## 4.2.47 text (dlg:text)

The `dlg:text` element represents a text box design object.

### Parents

`dlg:embedded-object`

`dlg:object`

`dlg:objects`

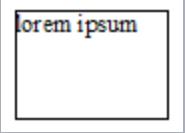
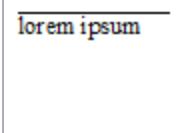
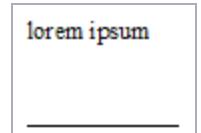
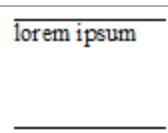
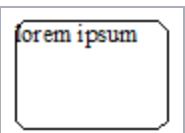
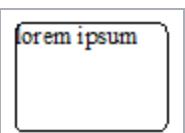
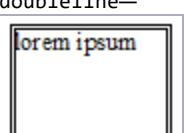
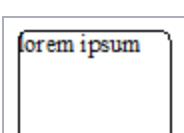
### Attributes

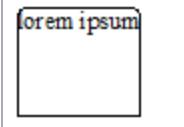
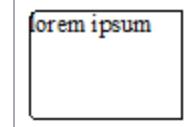
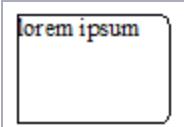
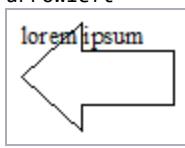
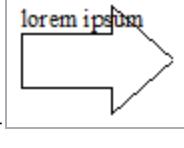
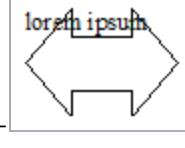
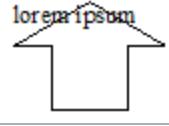
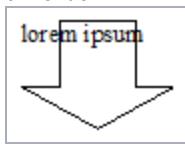
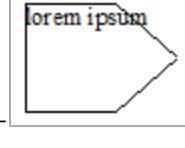
In addition to the following attributes, the `dlg:text` element uses one or more of the common attributes found in “[Shared Design Object Attributes](#)” on page 635.

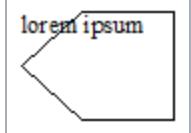
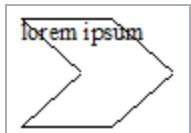
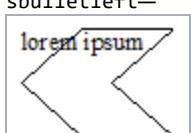
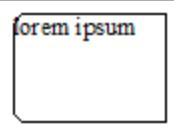
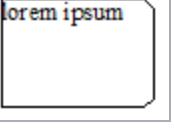
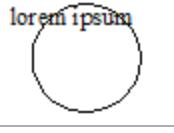
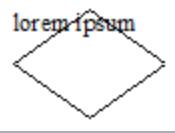
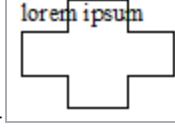
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>all-straight</code>	Bool	Not used	
<code>balance-cols</code>	Bool	When a value greater than 1 is specified for the <code>columns</code> attribute, specifies whether the lengths of the columns in the text box are equal	On the <b>Text</b> tab of the text box properties, the <b>Balance</b> check box
<code>column-color-pen</code>	Color	When a value greater than 1 is specified for the <code>columns</code> attribute, the color of the line between columns	On the <b>Lines and Fill</b> tab of the text box properties, the <b>Vertical grid</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
column-pen-style	Enum	<p>When a value greater than 1 is specified for the <code>columns</code> attribute, the style of the line between columns</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Do not include a border.</li> <li>• <code>solid</code>—_____</li> <li>• <code>dashed</code>—— — — —</li> <li>• <code>shortdashed</code>— — — — — —</li> <li>• <code>dotted</code>— - - - - - -</li> <li>• <code>fardashed</code>— - - - - - - -</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <code>double</code></li> <li>• <code>groove</code></li> <li>• <code>inset</code></li> <li>• <code>outset</code></li> <li>• <code>ridge</code></li> </ul>	On the <b>Lines and Fill</b> tab of the text box properties, in the <b>Vertical grid</b> area, the line style selection box
column-pen-width	Int	When a value greater than 1 is specified for the <code>columns</code> attribute, the width, in logical units, of the line between columns	On the <b>Lines and Fill</b> tab of the text box properties, the box in the <b>Vertical grid</b> area that contains the line width
columns	Int	The number of columns in the text box	On the <b>Text</b> tab of the text box properties, the <b>Columns</b> box
corner-size	Int	When <code>bevel</code> , <code>round</code> , <code>tab</code> , <code>tabtext</code> , <code>roundlft</code> , <code>roundrt</code> , <code>bevellft</code> , or <code>bevelrt</code> is specified for the <code>frame-style</code> attribute, the radius, in points, of the rounded corner, or the length, in points, of the bevel	On the <b>Text</b> tab of the text box properties, the <b>Corners</b> slider

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
docx-part	Enum	<p>Specifies the part of a DOCX file from which text is imported</p> <p><b>Note:</b> This attribute is used only during the DOCX import process.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>body</li> <li>header</li> <li>footer</li> </ul>	
fit-max-point	Int	When grow is specified for the fit-text attribute, the maximum font size allowed for the text	On the <b>Text</b> tab of the text box properties, the <b>Maximum font size</b> box
fit-min-point	Int	When shrink is specified for the fit-text attribute, the minimum font size allowed for the text	On the <b>Text</b> tab of the text box properties, the <b>Minimum font size</b> box
fit-step	Int	When shrink, grow, or both is specified for the fit-text attribute, the amount that the font size will decrease or increase each time that the font size changes	On the <b>Text</b> tab of the text box properties, the <b>Font step size</b> box
fit-text	Enum	<p>Specifies how the text size can change to fit the text box</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>none—Do not allow the font size to change to fit the text box.</li> <li>shrink—Allow the font size to be reduced to fit the text box.</li> <li>grow—Allow the font size to be increased to fit the text box.</li> <li>both—Allow the font size to be reduced or increased to fit the text box.</li> </ul>	On the <b>Text</b> tab of the text box properties, the <b>Autofit text</b> drop-down list
fixed-height	Bool	Not used	
		<b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but false is always specified.	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
frame-style	Enum	<p>The shape of the text box frame One of the following:</p> <ul style="list-style-type: none"> <li>• frame—</li> <li>• top—</li> <li>• bottom—</li> <li>• both—</li> <li>• bevel—</li> <li>• round—</li> <li>• doubleline—</li> <li>• tab—</li> </ul>	On the <b>Text</b> tab of the text box properties, the <b>Frame style</b> drop-down list

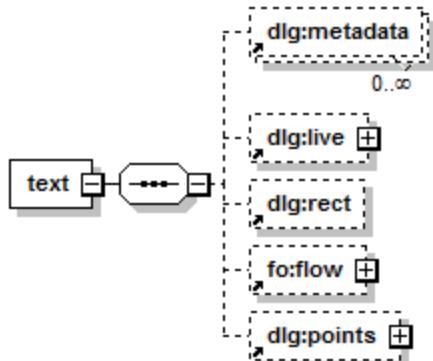
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• tabtext—</li>    <li>• roundlft—</li>    <li>• roundrt—</li>    <li>• arrowleft—</li>    <li>• arrow—</li>    <li>• dblarrow—</li>    <li>• arrowup—</li>    <li>• arrowdown—</li>    <li>• bulletrt—</li>  </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• bulletleft— </li> <li>• sbulletrt— </li> <li>• sbulletleft— </li> <li>• bevelleft— </li> <li>• bevelrt— </li> <li>• circle— </li> <li>• diamond— </li> <li>• star— </li> <li>• plus— </li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
gutter-size	Int	When a value greater than 1 is specified for the columns attribute, the space, in logical units, between columns	On the <b>Text</b> tab of the text box properties, the <b>Gutter size</b> box
hide-empty	Bool	Specifies whether lines that contain variables with empty values are removed	On the <b>Text</b> tab of the text box properties, the <b>Remove empty variable lines</b> check box
kern-amount	Int	When 1 is specified for the kerning attribute, the minimum font size, in tenths of points, at which text will be kerned	On the <b>Text</b> tab of the text box properties, the <b>Kerning</b> box
kerning	Int	Specifies whether kerning is applied to the text box  Must be in the range 0–1, corresponding to the following settings: <ul style="list-style-type: none"><li>• 0—Do not kern the text in the text box.</li><li>• 1—Kern the text in the text box.</li></ul>	On the <b>Text</b> tab of the text box properties, the <b>Kerning</b> check box
object-prerotated	Bool	In exported DXF or XML (composed) output, specifies whether the text box was rotated before export. If exported DXF is reimported, this attribute ensures the correct rotation and positioning of the text box.	
original-poly	Bool	Not used	
override-margins	Bool	Specifies whether extra space is removed before or after a paragraph when it appears at the top or bottom of the text box	On the <b>Text</b> tab of the text box properties, the <b>Remove extra spacing</b> check box
points	Int	Not used	
poly-text	Bool	Specifies whether the text box was converted from a shape object	
unicode-script	Enum		
unicode-digits	Enum		
widows	Int	The number of widow or orphan lines (lines that appear by themselves) allowed in the text box	On the <b>Text</b> tab of the text box properties, the <b>Widow control</b> check box and number entry box. A value of 0 is equivalent to clearing the check box.

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
wrap-around-other	Enum	Specifies how text in the text box wraps around other objects  One of the following: <ul style="list-style-type: none"><li>• none—Text overlaps other objects.</li><li>• fit—Text wraps around other objects and follows the shape of each object.</li><li>• rect—Text wraps around other objects and maintains a rectangular shape around each object.</li></ul>	On the <b>Text</b> tab of the text box properties, the <b>Flow around other objects</b> drop-down list
xy-font-scaling	Bool	When shrink, grow, or both is specified for the fit-text attribute, specifies whether the width of the font can change while the current height of the font is maintained to best fill the text box	On the <b>Text</b> tab of the text box properties, the <b>X/Y Font Scaling</b> check box

## Structure



## Example

```
<dlg:text balance-cols="false" can-split="false" columns="1"
corner-size="5pt" current-angle="0" delay-comp="none" design-var-ndx=
"0" fit-max-point="0" fit-min-point="0" fit-step="5" fit-text="none"
fixed-height="false" flip-h="false" flip-v="false" flow-around="no"
flow-break="auto" frame-style="round" h-auto-size="false" hide-empty=
>false" ignore-relative="no" kern-amount="120" kerning="1" language=
"Language|0|" lock-proportions="false" meta-props-language="default"
meta-props-options="read-object-text" meta-props-order="2"
object-prerotated="true" override-margins="false" pen="true"
pen-color="rgb(0,0,0)" pen-style="solid" pen-width="1lu"
pos-rel-to-above="0" reference-name="Text 3" shadow="none"
unicode-digits="ascii" unicode-script="latin" v-auto-size="false"
widows="2" wrap-around-other="none" xy-font-scaling="false">
    <dlg:rect bottom="504.00pt" left="189.00pt" right="252.00pt" top=
    "459.00pt"/>
    <fo:flow display-align="auto" height="625.00lu" margin-bottom=
    "0.00lu" margin-left="0.00lu" margin-right="0.00lu" margin-top=
    "0.00lu" width="875.00lu">
        <fo:block end-indent="0lu" keep-together="auto" keep-with-next=
        "auto" line-height="0lu" line-spacing="single" space-after="0lu"
space-before="0lu" start-indent="0lu" tab-ruler="21" text-align
="left" text-indent="0lu" usage-rule="Rule|0|">
            <fo:inline color="" font-family="Times New Roman" font-size=
            "12.00pt" font-style="normal" letter-spacing="0.00pt">lorem
            ipsum</fo:inline>
        </fo:block>
    </fo:flow>
</dlg:text>
```

## 4.2.48 text-frame (dlg:text-frame)

The `dlg:text-frame` element represents a frame for text or graphic messages embedded in a text box.

### Parents

`dlg:embedded-object`

`dlg:object`

`dlg:objects`

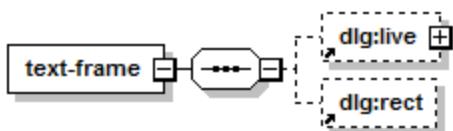
### Attributes

In addition to the following attributes, the `dlg:text-frame` element uses one or more of the common attributes found in [“Shared Design Object Attributes” on page 635](#).

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>frame-space-use</code>	Enum	<p>Specifies the type of messages accepted into this frame when no messages are available that use the template referenced by the <code>oi-template</code> attribute</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <code>templateonly</code>—Do not accept messages that do not use the template referenced by the <code>oi-template</code> attribute.</li><li>• <code>samemsgtype</code>—Accept messages of the same message type.</li><li>• <code>any</code>—Accept any other messages.</li></ul> <p>The following value is not used:</p> <ul style="list-style-type: none"><li>• <code>passthrough</code></li></ul>	On the <b>Contents Frame</b> tab of the embedded frame properties, or the <b>Insert Frame</b> dialog box when creating an embedded frame, the <b>Alternative contents</b> drop-down list
<code>num-messages</code>	Int	The maximum number of messages allowed in the frame	On the <b>Contents Frame</b> tab of the embedded frame properties, or the <b>Insert Frame</b> dialog box when creating an embedded frame, the <b>Maximum number of messages in frame</b> box
<code>oi-template-message-type</code>	Int	The internal object ID of the message type for the message template used for this frame	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
oi-template	Int	The internal object ID of the graphic message template used for this frame. Use 0 to specify that graphic messages are not allowed in the frame.	On the <b>Contents Frame</b> tab of the embedded frame properties, or the <b>Insert Frame</b> dialog box when creating an embedded frame, the <b>Primary template</b> drop-down list
oi-message-type	Int	The internal object ID of the text message type allowed for this frame. Use 0 to specify that text messages are not allowed in the frame.	On the <b>Contents Frame</b> tab of the embedded frame properties, or the <b>Insert Frame</b> dialog box when creating an embedded frame, the <b>Allowed message type</b> drop-down list

## Structure



## 4.2.49 wrapper-coordinate (dlg:wrapper-coordinate)

The `dlg:wrapper-coordinate` element specifies the coordinates for an individual point in a shape or text box design object.

The `dlg:points` and `dlg:wrapper-coordinate` elements are not used in XML (composed) output for text boxes, but they can be used instead of the `dlg:rect` element within `dlg:text` elements in DXF that will be imported.

### Parents

array-wrapper-coordinate (`dlg:array-wrapper-coordinate`)  
`dlg:points`

### Attribute

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>value</code>	Coord	The position of the point	

### Structure

wrapper-coordinate

### Example

```
<dlg:text ...>
  <dlg:points>
    <dlg:wrapper-coordinate value="216pt 135pt"/>
    <dlg:wrapper-coordinate value="252pt 135pt"/>
    <dlg:wrapper-coordinate value="252pt 171pt"/>
    <dlg:wrapper-coordinate value="216pt 171pt"/>
  </dlg:points>
  ...
</dlg:text>
```

## 4.3 Live Elements

Live elements represent objects used in a Live document, such as buttons and images in an image selector. Additionally, the `dlg:live` element specifies the Live properties for other design objects.

For more information about the design objects that are represented by elements in this section, see *Designing for LiveEditor* in the Exstream Design and Production documentation.

This section contains the following elements:

- “[button \(dlg:button\)](#)” on the next page
- “[dib \(dlg:dib\)](#)” on page 423
- “[font-props \(fo:font-props\)](#)” on page 427
- “[image \(dlg:image\)](#)” on page 429
- “[image-down \(dlg:image-down\)](#)” on page 430
- “[image-element \(dlg:image-element\)](#)” on page 432
- “[image-hover \(dlg:image-hover\)](#)” on page 434
- “[image-up \(dlg:image-up\)](#)” on page 436
- “[library-component-ref \(dlg:library-component-ref\)](#)” on page 438
- “[live \(dlg:live\)](#)” on page 439
- “[value-pair \(dlg:value-pair\)](#)” on page 470
- “[variable \(dlg:variable\)](#)” on page 471
- “[variable-use \(dlg:variable-use\)](#)” on page 472

### 4.3.1 button (dlg:button)

The `dlg:button` element represents one of the following selection controls, depending on the value of the `button-type` attribute:

- Button
- Radio button
- Check box
- Signature button

The font properties of the button or signature button design object are specified using a child `fo:font-props` element.

For more information about buttons, radio buttons, check boxes, and signature buttons, see *Designing for LiveEditor* in the Exstream Design and Production documentation.

### Parents

```
dlg:embedded-object
dlg:object
dlg:objects
```

### Attributes

In addition to the following attributes, the `dlg:button` element uses one or more of the common attributes found in [“Shared Design Object Attributes” on page 635](#).

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
button-border-style	Enum	<p>The border style for the button</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>button—Use a standard button style, specified using the <code>button-style</code> attribute. This setting is valid only when <code>custom-button</code> or <code>signature-button</code> is specified for the <code>button-type</code> attribute.</li> <li>image—Use images specified by <code>dlg:image-up</code>, <code>dlg:image-down</code>, and <code>dlg:image-hover</code> child elements. When using this setting, you should also specify <code>image</code> for the <code>button-style</code> attribute.</li> <li>round—Use a standard radio button style, specified using the <code>button-style</code> attribute. This setting is valid only when <code>radio-button</code> is specified for the <code>button-type</code> attribute.</li> <li>square—Use a standard check box or signature box style, specified using the <code>button-style</code> attribute. This setting is valid only when <code>check-box</code> or <code>signature-button</code> is specified for the <code>button-type</code> attribute.</li> </ul>	On the <b>Button</b> tab of the button properties, the <b>Button style</b> drop-down list
button-edge-size	Int	<p>The width, in logical units, of the edge of the button</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>Note:</b> This attribute is included in XML (composed) output, but because the button edge size is fixed in Exstream, any value specified for this attribute is ignored when DXF is imported.</p> </div>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
button-style	Enum	<p>The appearance of the button</p> <p>This attribute is required.</p> <p>When <code>custom-button</code> is specified for the <code>button-type</code> attribute, one of the following:</p> <ul style="list-style-type: none"> <li>• <code>button</code>—Use a drawn standard button shape.</li> <li>• <code>image</code>—Use images specified by <code>dlg:image-up</code>, <code>dlg:image-down</code>, and <code>dlg:image-hover</code> child elements. When using this setting, you should also specify <code>image</code> for the <code>button-border-style</code> attribute.</li> </ul> <p>When <code>check-box</code> is specified for the <code>button-type</code> attribute, one of the following:</p> <ul style="list-style-type: none"> <li>• <code>check</code>—Use a drawn two-dimensional check mark in a three-dimensional check box.</li> <li>• <code>check-thin</code>—Use a drawn two-dimensional check mark in a thin three-dimensional check box.</li> <li>• <code>check-flat</code>—Use a drawn two-dimensional check mark in a two-dimensional check box.</li> <li>• <code>check-3d</code>—Use a drawn three-dimensional check mark in a three-dimensional check box.</li> <li>• <code>check-3d-thin</code>—Use a drawn three-dimensional check mark in a thin three-dimensional check box.</li> <li>• <code>check-3d-flat</code>—Use a drawn three-dimensional check mark in a two-dimensional check box.</li> <li>• <code>check-x</code>—Use a drawn X mark in a three-dimensional check box.</li> <li>• <code>check-x-thin</code>—Use a drawn X mark in a thin three-dimensional check box.</li> <li>• <code>check-x-flat</code>—Use a drawn X mark in a two-dimensional check box.</li> <li>• <code>check-x-wide</code>—Use a drawn wide X mark in a three-dimensional check box.</li> <li>• <code>check-x-wide-thin</code>—Use a drawn wide X mark in a thin three-dimensional check box.</li> </ul>	On the <b>Button</b> tab of the button properties, the <b>Button style</b> and <b>Box style</b> drop-down lists

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li><b>check-x-wide-flat</b>—Use a drawn wide X mark in a two-dimensional check box.</li> <li><b>check-filled</b>—Use a drawn three-dimensional check box that is filled when selected.</li> <li><b>check-filled-thin</b>—Use a drawn thin three-dimensional check box that is filled when selected.</li> <li><b>check-filled-flat</b>—Use a drawn two-dimensional check box that is filled when selected.</li> <li><b>check-std-img</b>—Use standard check box images.</li> <li><b>image</b>—Use images specified by <code>dlg:image-up</code>, <code>dlg:image-down</code>, and <code>dlg:image-hover</code> child elements. When using this setting, you should also specify <code>image</code> for the <code>button-border-style</code> attribute.</li> </ul> <p>When <code>radio-button</code> is specified for the <code>button-type</code> attribute, one of the following:</p> <ul style="list-style-type: none"> <li><b>radio</b>—Use a drawn radio button in a three-dimensional frame.</li> <li><b>radio-flat</b>—Use a drawn radio button in a two-dimensional frame.</li> <li><b>radio-std-img</b>—Use standard radio button images.</li> <li><b>image</b>—Use images specified by <code>dlg:image-up</code>, <code>dlg:image-down</code>, and <code>dlg:image-hover</code> child elements. When using this setting, you should also specify <code>image</code> for the <code>button-border-style</code> attribute.</li> </ul> <p>When <code>signature-button</code> is specified for the <code>button-type</code> attribute, one of the following:</p> <ul style="list-style-type: none"> <li><b>signature-button</b>—Use a drawn standard button shape.</li> <li><b>signature-box</b>—Use a drawn box. When using this setting, you should also specify <code>square</code> for the <code>button-border-style</code> attribute.</li> <li><b>signed</b>—Use a drawn box that is</li> </ul>	

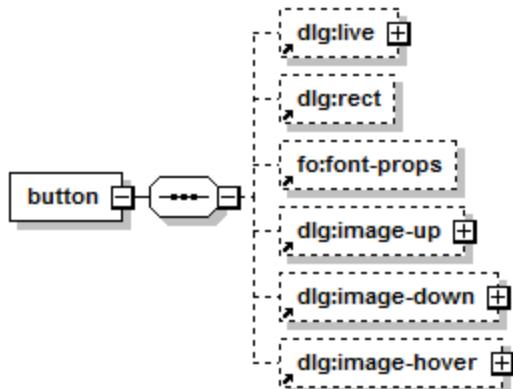
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<p>replaced with a digital signature image supplied by the variable specified by the <code>down-image-placeholder-variable</code> attribute when an end user clicks the signature box. When using this setting, you should also specify <code>square</code> for the <code>button-border-style</code> attribute.</p> <ul style="list-style-type: none"> <li>• <code>image</code>—Use images specified by <code>dlg:image-up</code>, <code>dlg:image-down</code>, and <code>dlg:image-hover</code> child elements. When using this setting, you should also specify <code>image</code> for the <code>button-border-style</code> attribute.</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <code>link</code></li> <li>• <code>radio-full</code></li> </ul>	
<code>button-type</code>	Enum	<p>The type of button defined by this element</p> <p>This attribute is required.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>custom-button</code>—The element defines a button.</li> <li>• <code>check-box</code>—The element defines a check box.</li> <li>• <code>signature-button</code>—The element defines a signature button.</li> <li>• <code>radio-button</code>—The element defines a radio button.</li> </ul>	
<code>caption</code>	Text	The text that appears on or beside the button	On the <b>Button</b> tab of the button properties, the <b>Caption</b> box
<code>caption-down</code>	Text	The text that appears on or beside the button when <code>true</code> is specified for the <code>toggle</code> attribute and an end user clicks the button	On the <b>Button</b> tab of the button properties, the <b>Down caption</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
click-on	Bool	When check-box or radio-button is specified for the button-type attribute, or when custom-button or signature-button is specified for the button-type attribute and true is specified for the toggle attribute, specifies whether the check box, radio button, or toggle button is selected  <b>Note:</b> This attribute is included in exported DXF and XML (composed) output to indicate the status of a toggle button, check box, or radio button, but this attribute is ignored in imported DXF.	
content-variable	Ref	A reference to the variable that stores the specified value when the end user selects the button. The value is either specified for the value-if-clicked attribute or stored by the variable referenced by the selections-variable attribute.	On the <b>Button</b> tab of the button properties, the <b>Variable</b> box
disabled	Bool	Not used  <b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but false is always specified.	
down-image-placeholder-variable	Ref	When signed is specified for the button-style attribute, a reference to the image placeholder variable that specifies a signature image	On the <b>Button</b> tab of the button properties, the <b>Down image placeholder variable</b> box
enabled-variable	Ref	A reference to the variable that determines whether the button is enabled for end users	On the <b>Interactive</b> tab of the button properties, the <b>Enable</b> box
frame-width	Int	The width, in logical units, of the frame around the button  <b>Note:</b> This attribute is included in XML (composed) output, but because the button frame width is fixed in Exstream, any value specified for this attribute is ignored when DXF is imported.	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
is-locked-on-sign	Bool	When <code>signature-button</code> is specified for the <code>button-type</code> attribute, specifies whether end users are prevented from removing an electronic signature and unlocking a Live document for further editing after it has been signed	On the <b>Button</b> tab of the button properties, the <b>Locked on sign</b> check box
local-version	Int	Specifies the internal Exstream version number that determines the supported properties for the button  <b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.	
selections-variable	Ref	A reference to the variable that provides the values that will be stored in the variable referenced by the <code>content-variable</code> attribute when the end user selects the button	On the <b>Button</b> tab of the button properties, the <b>Array containing selection values</b> box
signature-method	Enum	Not used	
signature-scope	Enum	When <code>signature-button</code> is specified for the <code>button-type</code> attribute, the portion of the document to lock after the end user adds an electronic signature  One of the following: <ul style="list-style-type: none"> <li>• <code>file</code>—Lock the entire Live document.</li> <li>• <code>customer</code>—Lock the active customer.</li> <li>• <code>document</code>—Lock the active document within the Live document.</li> <li>• <code>page</code>—Lock the active page.</li> <li>• <code>none</code>—Do not lock anything in the Live document.</li> </ul>	On the <b>Button</b> tab of the button properties, the <b>Signature scope</b> drop-down list
std-button-size	Int	Reports the standard button size  <b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.	
text-align	Text	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
toggle	Bool	When <code>custom-button</code> is specified for the <code>button-type</code> attribute, specifies whether the button can be toggled	On the <b>Button</b> tab of the button properties, the <b>Toggle</b> check box
tooltip	Text	Not used; use the <code>tooltip</code> attribute of the <code>dlg:live</code> element.	
value-if-clicked	Text	The value that will be stored in the variable referenced by the <code>content-variable</code> attribute when the end user selects the button	On the <b>Button</b> tab of the button properties, the <b>Array containing selection values</b> box
variable-index	Int	If the variable referenced by the <code>content-variable</code> attribute is an array, the index value of the array element that will be populated when an end user selects the button. If you want the array to be populated automatically in a table, specify 0 for this attribute.	On the <b>Button</b> tab of the button properties, the <b>Array element</b> box

## Structure



## Example

```
<dlg:button brush="true" brush-fill-color="rgb(192,192,192)"  
button-border-style="square" button-style="check-flat"  
button-type="check-box" caption="Sample Check Box"  
content-variable="Variable|622|CheckBoxTest" pen="true"  
pen-color="rgb(0,0,0)" pen-style="solid" pen-width="1lu"  
pos-rel-to-above="0" reference-name="sample_checkbox"  
selections-variable="Variable|421|CheckBoxSelection">  
    <dlg:live allow-form-insert="true" auto-size="true"  
    can-be-moved="false" can-be-resized="false"  
    can-be-rotated="false" can-change-format="false"  
    can-change-properties="false"  
    can-change-text-properties="false"  
    can-do-object-properties="0" can-type="false" comb-type="box"  
    content-pick-type="none" content-variable-index="0"  
    content-variable-oi="Variable|0|" editable-area-name=""  
    editing-change-type="optional"  
    enable-variable-oi="Variable|0|" exclude-from-outline="false"  
    fill-color="rgb(196,196,196)" form-field-library="Form  
Field|0|" form-field-source="application" form-height="200"  
    form-mask-name="" form-space="10" form-width="100"  
    function-call-button-end="Function|0|"  
    function-call-button-start="Function|0|" hidden-type="none"  
    line-color="rgb(0,0,0)" line-width="1" link-type="none"  
    list-can-multi-select="false" list-can-sort="false"  
    list-display-variable="Variable|0|"  
    list-return-variable="Variable|0|" list-type="dropdown"  
    live-caption-text="" live-inheritance-type="always"  
    live-validation="default" selection-prompt-type="object-name"  
    selector-value="" show-tab="true" static-hyperlink=""  
    tab-stop="true" text-field-minimum-width="100"  
    text-field-type="none" tooltip="" upload-prompt=""  
    variable-for-selector="Variable|0|"  
    variable-hyperlink="Variable|0|" want-fill="false"/>  
    <dlg:rect bottom="149.40pt" left="540.00pt" right="554.40pt"  
    top="135.00pt"/>  
    <fo:font-props font-family="Arial" font-size="10pt"/>  
</dlg:button>
```

## 4.3.2 dib (dlg:dib)

The `dlg:dib` element represents a bitmap image used for a button.

### Parents

`dlg:image-down`

`dlg:image-hover`

`dlg:image-up`

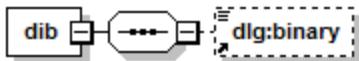
### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>angle</code>	Int	The amount to rotate the image, in hundredths of degrees, when importing	On the <b>Placement</b> tab of the image properties, the <b>Rotation</b> box
<code>black-color</code>	Color	The color to convert to black when converting the image to black-and-white	In the <b>Image Color Management</b> dialog box for the image, the <b>Color to convert to black</b> color well
<code>convert</code>	Enum	<p>The set of colors used for the converted image</p> <p>One of the following:</p> <ul style="list-style-type: none"><li><code>black-and-white</code>—The colors in the image are converted to black-and-white, converting the color specified for the <code>black-color</code> attribute to black.</li><li><code>color-and-white</code>—The colors in the image are converted to white and a highlight color determined by the output device, converting the color specified for the <code>hl-color</code> attribute to the highlight color.</li><li><code>highlight-color</code>—The colors in the image are converted to black and a highlight color determined by the output device, converting the color specified for the <code>black-color</code> attribute to black and the color specified for the <code>hl-color</code> attribute to the highlight color.</li></ul>	In the <b>Image Color Management</b> dialog box for the image, the <b>Highlight color</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
dither-method	Int	<p>The dithering method used for converting the colors in the image</p> <p>Must be in the range 0–8, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—None</li> <li>• 1—Floyd-Steinberg</li> <li>• 2—Stucki</li> <li>• 3—Burkes</li> <li>• 4—Sierra</li> <li>• 5—Stevenson Arche</li> <li>• 6—Jarvis</li> <li>• 7—Ordered</li> <li>• 8—Clustered</li> </ul>	In the <b>Image Color Management</b> dialog box for the image, the <b>Color conversion</b> drop-down list
filename	Text	The path and file name of the image if the binary data for the image is not included in a child <a href="#">dlg:binary</a> element	On the <b>Image</b> tab of the image properties, the <b>User-specified path</b> box. (The <b>Image path location</b> setting is assumed to be <b>Use specified URL/path</b> if a child <a href="#">dlg:binary</a> element is not included.)
halftone	Bool	Specifies whether a halftone screen is used for a black-and-white image	In the <b>Image Color Management</b> dialog box for the image, the <b>B/W halftone</b> check box
halftone-angle	Int	The rotation, in degrees, of the dots used for halftone in the image, when 0, 3, or 5 is specified for the <b>halftone-shape</b> attribute. Must be in the range 0–180.	In the <b>Image Color Management</b> dialog box for the image, the <b>Angle</b> box
halftone-grain	Int	The size, in pixels, of the dots used for halftone in the image, when 1–5 is specified for the <b>halftone-shape</b> attribute. Must be in the range 1–15.	In the <b>Image Color Management</b> dialog box for the image, the <b>Grain size</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
halftone-shape	Int	<p>The shape of the dots used for halftone in the image</p> <p>Must be in the range 0–5, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—Default</li> <li>• 1—Rectangular</li> <li>• 2—Circular</li> <li>• 3—Elliptical</li> <li>• 4—Random</li> <li>• 5—Linear</li> </ul>	In the <b>Image Color Management</b> dialog box for the image, the <b>Shape</b> box
hl-color	Color	The color to convert to the highlight color determined by the output device when <b>color-and-white</b> or <b>highlight-color</b> is specified for the <b>convert</b> attribute	In the <b>Image Color Management</b> dialog box for the image, the <b>Color to convert to highlight color</b> color well
original-stored	Bool	<p>Indicates whether the original image data has been stored</p> <p><b>Note:</b> This attribute is provided only for information in exported DXF and XML (composed) output and is ignored in imported DXF.</p>	In the <b>Image Color Management</b> dialog box for the image, the <b>Original full-color image data stored</b> check box
scale-x	Int	The percentage to horizontally scale the image when importing	On the <b>Placement</b> tab of the image properties, the <b>Scale width</b> box
scale-y	Int	The percentage to vertically scale the image when importing	On the <b>Placement</b> tab of the image properties, the <b>Scale height</b> box

## Structure



## Example

```
<dlg:button>
  ...
  <dlg:image-down>
    <dlg:dib filename="C:\images\buttonimagedown.jpg" scale-x="75"
      scale-y="75" />
  </dlg:image-down>
  <dlg:image-up>
    <dlg:dib filename="C:\images\buttonimageup.jpg" scale-x="75"
      scale-y="75" />
  </dlg:image-up>
  <dlg:image-hover>
    <dlg:dib filename="C:\images\buttonimagehover.jpg" scale-x="75"
      scale-y="75" />
  </dlg:image-hover>
</dlg:button>
```

### 4.3.3 font-props (fo:font-props)

The fo:font-props element specifies the font properties of a button or signature button object.

#### Parents

dlg:button

#### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
font	Text	Not used	
font-family	Text	The font face used for the button text	In the <b>Select Font</b> dialog box for the button (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Font</b> list
font-selection-strategy	Enum	Not used	
font-size	Int	The font size of the button text, in points	In the <b>Select Font</b> dialog box for the button (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Point size</b> drop-down list
font-size-adjust	Text	Not used	
font-stretch	Enum	Not used	
font-style	Enum	Not used	
font-variant	Enum	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
font-weight	Enum	<p>Specifies whether the button text is bold</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• normal</li><li>• bold</li></ul> <p>The following values are not used:</p> <ul style="list-style-type: none"><li>• bolder</li><li>• lighter</li><li>• 100</li><li>• 200</li><li>• 300</li><li>• 400</li><li>• 500</li><li>• 600</li><li>• 700</li><li>• 800</li><li>• 900</li></ul>	In the <b>Select Font</b> dialog box for the button (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Bold</b> check box

## Structure

font-props

## Example

```
<dlg:button ...>
  <dlg:live .../>
  <dlg:rect .../>
  <fo:font-props font-family="Times New Roman" font-size="10pt"/>
</dlg:button>
```

#### 4.3.4 image (dlg:image)

Although the `dlg:image` element is a standard Exstream Design and Production design object, it contains some Live-specific attributes. For a full description of the element and its attributes, see [“image \(dlg:image\)” on page 300](#).

### 4.3.5 image-down (dlg:image-down)

When `image` is specified for the `button-style` attribute of the parent `dlg:button` element, the `dlg:image-down` element represents the image shown on the button while the button is clicked, the check box or radio button is selected, or the signature button has been clicked.

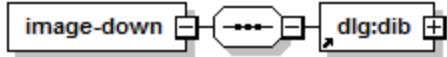
#### Parents

`dlg:button`

#### Attributes

None.

#### Structure



## Example

```
<dlg:button button-style="image" button-type="custom-button"
caption="Confirm" reference-name="Confirm_Button">
<dlg:live can-be-moved="false" can-be-resized="false"
can-be-rotated="false" can-change-format="false"
can-change-properties="false" can-change-text-properties="false"
can-type="false" editing-change-type="optional"
function-call-button-end="Function|1|Confirm" tooltip="Confirm your
entries"/>
  <dlg:rect bottom="291.60pt" left="284.11pt" right="338.11pt"
top="273.60pt"/>
  <fo:font-props font-family="Arial" font-size="10pt"/>
  <dlg:image-up>
    <dlg:dib>
      <dlg:binary encoding="base64">...</dlg:binary>
    </dlg:dib>
  </dlg:image-up>
  <dlg:image-down>
    <dlg:dib>
      <dlg:binary encoding="base64">...</dlg:binary>
    </dlg:dib>
  </dlg:image-down>
  <dlg:image-hover>
    <dlg:dib>
      <dlg:binary encoding="base64">...</dlg:binary>
    </dlg:dib>
  </dlg:image-hover>
</dlg:button>
```

## 4.3.6 image-element (dlg:image-element)

The `dlg:image-element` element represents an individual image within an image selector.

For more information about using an image selector, see *Designing for LiveEditor* in the Exstream Design and Production documentation.

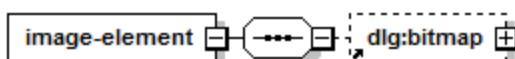
### Parents

`dlg:image`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>caption</code>	Text	The caption for the image	On the <b>Image</b> tab of the image properties, the <b>Caption</b> box associated with each image in the <b>Image selections</b> box
<code>draw-error-placeholder</code>	Bool		
<code>is-default</code>	Bool	Specifies whether this image is the default for the image selector. Only one <code>dlg:image-element</code> element within a <code>dlg:image</code> element should have <code>true</code> specified for this attribute, and the number of that element should be specified for the <code>selection</code> attribute of the parent <code>dlg:image</code> element.	On the <b>Image</b> tab of the image properties, the <b>Default selection</b> check box associated with each image in the <b>Image selections</b> box
<code>match</code>	Text	The value stored in the variable referenced by the <code>picker-variable</code> attribute of the parent <code>dlg:image</code> element when the image represented by this element is selected	On the <b>Image</b> tab of the image properties, the <b>Selection value</b> box associated with each image in the <b>Image selections</b> box
<code>uploaded</code>	Bool		

### Structure



## Example

```
<dlg:image height="750.00lu" image-path-location="use-output-dir"
picker-variable="Selection Variable|563|Test_selection_variable"
reference-name="Image 4" width="750.00lu">
<dlg:live allow-form-insert="true" auto-size="true" can-be-moved
=false" can-be-resized="false" can-be-rotated="false"
can-change-format="false" can-change-properties="false"
can-change-text-properties="false" can-do-object-properties="0"
can-type="false" comb-type="box" content-pick-type="built-in"
editing-change-type="optional" selection="1"
selection-prompt-type="object-name"/>
<dlg:rect bottom="607.32pt" left="135.00pt" right="380.74pt" top
="423.00pt"/>
<dlg:image-element is-default="false" match="first image" uploaded="false">
<dlg:bitmap>
<dlg:binary encoding="base64">...</dlg:binary>
</dlg:bitmap>
</dlg:image-element>
<dlg:image-element is-default="true" match="second image" uploaded="false">
<dlg:bitmap>
<dlg:binary encoding="base64">...</dlg:binary>
</dlg:bitmap>
</dlg:image-element>
<dlg:image-element is-default="false" match="third image" uploaded="false">
<dlg:bitmap>
<dlg:binary encoding="base64">...</dlg:binary>
</dlg:bitmap>
</dlg:image-element>
<dlg:image-element is-default="false" match="fourth image"
uploaded="false">
<dlg:bitmap>
<dlg:binary encoding="base64">...</dlg:binary>
</dlg:bitmap>
</dlg:image-element>
</dlg:image>
```

## 4.3.7 image-hover (dlg:image-hover)

When `image` is specified for the `button-style` attribute of the parent `dlg:button` element, the `dlg:image-hover` element represents the image shown on the button while the pointer is hovering over the button and the button is not being clicked.

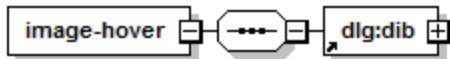
### Parents

`dlg:button`

### Attributes

None.

### Structure



## Example

```
<dlg:button button-style="image" button-type="custom-button"
caption="Confirm" reference-name="Confirm_Button">
<dlg:live can-be-moved="false" can-be-resized="false"
can-be-rotated="false" can-change-format="false"
can-change-properties="false" can-change-text-properties="false"
can-type="false" editing-change-type="optional"
function-call-button-end="Function|1|Confirm" tooltip="Confirm your
entries"/>
    <dlg:rect bottom="291.60pt" left="284.11pt" right="338.11pt"
top="273.60pt"/>
    <fo:font-props font-family="Arial" font-size="10pt"/>
    <dlg:image-up>
        <dlg:dib>
            <dlg:binary encoding="base64">...</dlg:binary>
        </dlg:dib>
    </dlg:image-up>
    <dlg:image-down>
        <dlg:dib>
            <dlg:binary encoding="base64">...</dlg:binary>
        </dlg:dib>
    </dlg:image-down>
    <dlg:image-hover>
        <dlg:dib>
            <dlg:binary encoding="base64">...</dlg:binary>
        </dlg:dib>
    </dlg:image-hover>
</dlg:button>
```

## 4.3.8 image-up (dlg:image-up)

When `image` is specified for the `button-style` attribute of the parent `dlg:button` element, the `dlg:image-up` element represents the image shown on the button while the button is not being clicked, the check box or radio button is not selected, or the signature button has not been clicked, and the pointer is not hovering over the object.

### Parents

`dlg:button`

### Attributes

None.

### Structure



## Example

```
<dlg:button button-style="image" button-type="custom-button"
caption="Confirm" reference-name="Confirm_Button">
<dlg:live can-be-moved="false" can-be-resized="false"
can-be-rotated="false" can-change-format="false"
can-change-properties="false" can-change-text-properties="false"
can-type="false" editing-change-type="optional"
function-call-button-end="Function|1|Confirm" tooltip="Confirm your
entries"/>
    <dlg:rect bottom="291.60pt" left="284.11pt" right="338.11pt"
top="273.60pt"/>
    <fo:font-props font-family="Arial" font-size="10pt"/>
    <dlg:image-up>
        <dlg:dib>
            <dlg:binary encoding="base64">...</dlg:binary>
        </dlg:dib>
    </dlg:image-up>
    <dlg:image-down>
        <dlg:dib>
            <dlg:binary encoding="base64">...</dlg:binary>
        </dlg:dib>
    </dlg:image-down>
    <dlg:image-hover>
        <dlg:dib>
            <dlg:binary encoding="base64">...</dlg:binary>
        </dlg:dib>
    </dlg:image-hover>
</dlg:button>
```

### 4.3.9 library-component-ref (dlg:library-component-ref)

Although the `dlg:library-component-ref` element is a standard Exstream Design and Production design object, it contains a Live-specific attribute. For a full description of the element and its attributes, see “[library-component-ref \(dlg:library-component-ref\)](#)” on page 316.

## 4.3.10 live (dlg:live)

The `dlg:live` element defines the Live properties of the object represented by the parent element of the `dlg:live` element and specifies how the object is customizable by end users in LiveEditor.

For more information about defining Live properties of objects, see *Designing for LiveEditor* in the Exstream Design and Production documentation.

### Parents

```
dlg:barcode-use
dlg:button
dlg:chart
dlg:document
dlg:image
dlg:index
dlg:library-component-ref
dlg:page
dlg:paragraph
dlg:section
dlg:shape
dlg:table
dlg:table-of-contents
dlg:text
dlg:text-frame
dlg:variable-use
fo:basic-link
fo:inline
wrapper (fo:wrapper)
```

The following parent elements are specified in the Exstream Object and Content DTD but do not have any Live settings defined by this element:

- [dlg:campaign](#)
- [dlg:chart-overlay](#)
- [dlg:message](#)
- [dlg:signature-field](#)

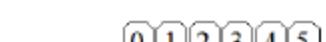
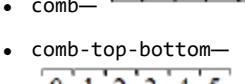
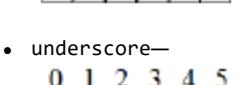
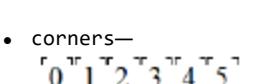
## Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
allow-form-insert	Bool	Not used  <b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but <code>true</code> is always specified.	
auto-size	Bool	When <code>local</code> is specified for the <code>form-field-source</code> attribute, specifies whether the size of the form field is determined automatically based on the contents  Valid for the following parent elements: <ul style="list-style-type: none"><li>• <a href="#">dlg:paragraph</a></li><li>• <a href="#">dlg:text</a></li><li>• <a href="#">dlg:variable-use</a></li><li>• <a href="#">fo:basic-link</a></li><li>• <a href="#">fo:inline</a></li></ul>	In the <b>Field Properties</b> dialog box for the text entry area, the <b>Autosize</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
can-be-moved	Bool	<p>Specifies whether the object can be moved by an end user in LiveEditor</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:barcode-use</a></li> <li>• <a href="#">dlg:button</a></li> <li>• <a href="#">dlg:chart</a></li> <li>• <a href="#">dlg:image</a></li> <li>• <a href="#">dlg:index</a></li> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:text</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Move</b> check box
can-be-resized	Bool	<p>Specifies whether the object can be resized by an end user in LiveEditor</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:barcode-use</a></li> <li>• <a href="#">dlg:button</a></li> <li>• <a href="#">dlg:chart</a></li> <li>• <a href="#">dlg:image</a></li> <li>• <a href="#">dlg:index</a></li> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:text</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Size</b> check box
can-be-rotated	Bool	<p>Specifies whether the object can be rotated by an end user in LiveEditor</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:text</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Rotate</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
can-change-format	Bool	<p>When optional or required is specified for the editing-change-type attribute, specifies whether the formatting of text (such as font face, font size, and font style) in an object can be changed by an end user in LiveEditor</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:chart</a></li> <li>• <a href="#">dlg:index</a></li> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:section</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Text format</b> check box
can-change-properties	Bool	<p>When optional or required is specified for the editing-change-type attribute, specifies whether the properties of an object (such as line and fill properties) can be changed by an end user in LiveEditor</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:barcode-use</a></li> <li>• <a href="#">dlg:image</a></li> <li>• <a href="#">dlg:index</a></li> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:table-of-contents</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Properties</b> check box
can-change-text-properties	Bool	<p>Not used</p> <p><b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but false is always specified.</p>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
can-do-object-properties	Int	Not used  <b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but 0 is always specified.	
can-type	Bool	When optional or required is specified for the editing-change-type attribute, specifies whether the text in an object can be edited  Valid for the following parent elements: <ul style="list-style-type: none"><li>• <a href="#">dlg:paragraph</a></li><li>• <a href="#">dlg:table</a></li><li>• <a href="#">dlg:text</a></li><li>• <a href="#">dlg:variable-use</a></li><li>• <a href="#">fo:basic-link</a></li><li>• <a href="#">fo:inline</a></li></ul>	On the <b>Interactive</b> tab of the object properties, the <b>Text edit</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
comb-type	Enum	<p>When <code>local</code> is specified for the <code>form-field-source</code> attribute, the type of border that appears around each character in the form field</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>— </li> <li>• <code>box</code>— </li> <li>• <code>bevel</code>— </li> <li>• <code>comb</code>— </li> <li>• <code>comb-top-bottom</code>— </li> <li>• <code>underline</code>— </li> <li>• <code>corners</code>— </li> </ul> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	In the <b>Field Properties</b> dialog box for the text entry area, the <b>Character frame</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
content-pick-type	Enum	<p>When optional or required is specified for the editing-change-type attribute, the type of control provided for the end user to select content in the object</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not use a control for content selection.</li> <li>• static-list—Use a drop-down list for content selection. List entries are specified using child <code>dlg:value-pair</code> elements. The end user's selection is stored in the variable referenced by the <code>list-return-variable</code> attribute. This value is invalid when the parent element is <code>dlg:image</code>.</li> <li>• variable-list—Use a drop-down list for content selection. List entries are provided by the variable referenced by the <code>list-display-variable</code> attribute. The end user's selection is stored in the variable referenced by the <code>list-return-variable</code> attribute. This value is invalid when the parent element is <code>dlg:image</code>.</li> <li>• calendar—Use a calendar to allow the end user to select a date. This value is invalid when the parent element is <code>dlg:image</code>.</li> <li>• built-in—Use an image selector to allow the end user to select from images specified by sibling <code>dlg:image-element</code> elements. This value is valid only when the parent element is <code>dlg:image</code>.</li> <li>• file-upload—Allow end users to upload a file. This value is valid only when the parent element is <code>dlg:image</code> or <code>dlg:text</code>.</li> </ul> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:image</code></li> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Use control to select content</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
content-variable-index	Int	<p>When the variable referenced by the <code>content-variable-oi</code> attribute is an array, the index used to store the content of the object</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:text</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	
content-variable-oi	Ref	<p>A reference to the variable that stores the content of the object</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:text</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Variable for content and validation</b> box
editable-area-name	Text	<p>The name of the object used for navigation or identification in a selection group</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:barcode-use</code></li> <li>• <code>dlg:button</code></li> <li>• <code>dlg:chart</code></li> <li>• <code>dlg:chart-overlay</code></li> <li>• <code>dlg:image</code></li> <li>• <code>dlg:index</code></li> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:section</code></li> <li>• <code>dlg:shape</code></li> <li>• <code>dlg:table</code></li> <li>• <code>dlg:table-of-contents</code></li> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	In the <b>Advanced properties</b> dialog box accessed from the <b>Interactive</b> tab of the object properties, the <b>Name</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
editing-change-type	Enum	<p>Specifies whether changes to the object by an end user in LiveEditor are possible or required</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—An end user cannot make changes to the object.</li> <li>• <b>optional</b>—An end user can optionally make changes to the object.</li> <li>• <b>required</b>—An end user is required to make changes to the object.</li> </ul> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:barcode-use</a></li> <li>• <a href="#">dlg:button</a></li> <li>• <a href="#">dlg:chart</a></li> <li>• <a href="#">dlg:image</a></li> <li>• <a href="#">dlg:index</a></li> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:section</a></li> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:table-of-contents</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Content change</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
enable-variable-oi	Ref	<p>A reference to a Boolean variable that determines when the object is enabled for end users in LiveEditor. Omit this attribute or use the value Variable 0  to specify that the object is always enabled.</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"><li>• <a href="#">dlg:barcode-use</a></li><li>• <a href="#">dlg:button</a></li><li>• <a href="#">dlg:chart</a></li><li>• <a href="#">dlg:chart-overlay</a></li><li>• <a href="#">dlg:document</a></li><li>• <a href="#">dlg:image</a></li><li>• <a href="#">dlg:index</a></li><li>• <a href="#">dlg:page</a></li><li>• <a href="#">dlg:paragraph</a></li><li>• <a href="#">dlg:section</a></li><li>• <a href="#">dlg:shape</a></li><li>• <a href="#">dlg:table</a></li><li>• <a href="#">dlg:table-of-contents</a></li><li>• <a href="#">dlg:text</a></li><li>• <a href="#">dlg:variable-use</a></li><li>• <a href="#">fo:basic-link</a></li><li>• <a href="#">fo:inline</a></li></ul>	On the <b>Interactive</b> tab of the object properties, the <b>Enable</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
exclude-from-outline	Bool	<p>Specifies whether the object represented by the parent element is excluded from the Outline Viewer in LiveEditor</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:barcode-use</a></li> <li>• <a href="#">dlg:button</a></li> <li>• <a href="#">dlg:chart</a></li> <li>• <a href="#">dlg:image</a></li> <li>• <a href="#">dlg:index</a></li> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:section</a></li> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:table-of-contents</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Exclude from outline viewer</b> check box
fill-color	Color	<p>When <code>local</code> is specified for the <code>form-field-source</code> attribute and <code>true</code> is specified for the <code>want-fill</code> attribute, the color of the background fill in the form field</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	In the <b>Field Properties</b> dialog box for the text entry area, the <b>Fill</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>form-field-library</code>	Ref	<p>When <code>library</code> is specified for the <code>form-field-source</code> attribute, a reference to an existing form field in the Library in Exstream Design and Production</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	In the <b>Field Properties</b> dialog box for the text entry area, the <b>Library form field</b> box
<code>form-field-source</code>	Enum	<p>When <code>form</code> is specified for the <code>text-field-type</code> attribute, the type of form field used for text entry</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>application</code>—Use the default form field for the application.</li> <li>• <code>library</code>—Use an existing form field from the Library, referenced by the <code>form-field-library</code> attribute.</li> <li>• <code>local</code>—Use a new form field defined by the <code>comb-type</code>, <code>line-color</code>, <code>line-width</code>, <code>fill-color</code>, <code>want-fill</code>, <code>auto-size</code>, <code>form-space</code>, <code>form-height</code>, and <code>form-width</code> attributes</li> </ul> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	In the <b>Field Properties</b> dialog box for the text entry area, the <b>Form field source</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
form-height	Int	<p>When <code>local</code> is specified for the <code>form-field-source</code> attribute and <code>false</code> is specified for the <code>auto-size</code> attribute, the height, in logical units, of the form field</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	In the <b>Field Properties</b> dialog box for the text entry area, the <b>Height</b> box
form-mask-name	Text	<p>The combination of characters and symbols that defines the type of data that can be entered in the form field</p> <p>The following symbols are used in a data entry mask:</p> <ul style="list-style-type: none"> <li>• *—Any character</li> <li>• #—A numeric character (0–9)</li> <li>• ?—An alphabetic character (A–Z, a–z)</li> <li>• A—An alphanumeric character (0–9, A–Z, a–z)</li> <li>• U—An uppercase alphabetic character (A–Z)</li> <li>• L—A lowercase alphabetic character (a–z)</li> <li>• H—A hexadecimal digit (0–9, A–F, a–f)</li> <li>• \—Escape the following character and use it as a literal.</li> </ul> <p>Other characters included in the value are used as literal characters included in the form field.</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	In the <b>Field Properties</b> dialog box for the text entry area, the <b>Data entry mask</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
form-space	Int	<p>When <code>local</code> is specified for the <code>form-field-source</code> attribute and <code>false</code> is specified for the <code>auto-size</code> attribute, the space, in logical units, between characters in the form field</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	In the <b>Field Properties</b> dialog box for the text entry area, the <b>Spacing</b> box
form-width	Int	<p>When <code>local</code> is specified for the <code>form-field-source</code> attribute and <code>false</code> is specified for the <code>auto-size</code> attribute, the width, in logical units, of the form field</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	In the <b>Field Properties</b> dialog box for the text entry area, the <b>Width</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
function-call-button-end	Ref	<p>A reference to the function that is triggered when an end user clicks a button or an object, or makes a selection in a list</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:barcode-use</a></li> <li>• <a href="#">dlg:button</a></li> <li>• <a href="#">dlg:chart</a></li> <li>• <a href="#">dlg:image</a> (when none is specified for the content-pick-type attribute)</li> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	In the <b>Advanced properties</b> dialog box accessed from the <b>Interactive</b> tab of the object properties, the <b>Button action</b> or <b>Completed button action</b> box
function-call-button-start	Ref	<p>When static-list, variable-list, calendar, or file-upload is specified for the content-pick-type attribute, a reference to the function that is triggered when an end user opens a list or activates a calendar or file upload control</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	In the <b>Advanced properties</b> dialog box accessed from the <b>Interactive</b> tab of the object properties, the <b>Start button action</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
hidden-type	Enum	<p>Specifies whether and how an object can be hidden by end users</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—The object cannot be hidden.</li> <li>• user-atomic—An end user can show or hide the object.</li> <li>• variable-user—The object is shown or hidden based on a selection group defined by the variable-for-selector and selector-value attributes, and the end user is allowed to control the group using a prompt defined by the selection-prompt-type attribute.</li> <li>• variable-auto—The object is shown or hidden based on a selection group defined by the variable-for-selector and selector-value attributes, and the group is controlled by customer data.</li> </ul> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:barcode-use</a></li> <li>• <a href="#">dlg:button</a></li> <li>• <a href="#">dlg:chart</a></li> <li>• <a href="#">dlg:chart-overlay</a></li> <li>• <a href="#">dlg:document</a></li> <li>• <a href="#">dlg:image</a></li> <li>• <a href="#">dlg:index</a></li> <li>• <a href="#">dlg:page</a></li> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:section</a></li> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:table-of-contents</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Show and hide</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
line-color	Color	<p>When <code>local</code> is specified for the <code>form-field-source</code> attribute, the color of the border that appears around each character in the form field</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	In the <b>Field Properties</b> dialog box for the text entry area, the <b>Line</b> color well
line-width	Int	<p>When <code>local</code> is specified for the <code>form-field-source</code> attribute, the line width, in logical units, of the border that appears around each character in the form field</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	In the <b>Field Properties</b> dialog box for the text entry area, the <b>Line</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
link-type	Enum	<p>Specifies whether a link is followed when the end user clicks the object, and specifies the source of the link</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—Do not follow a link when an end user clicks the object.</li> <li>• <b>static</b>—Follow a link specified by the <b>static-hyperlink</b> attribute when an end user clicks the object.</li> <li>• <b>variable</b>—Follow a link specified by the variable referenced by the <b>variable-hyperlink</b> attribute when an end user clicks the object.</li> </ul> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:barcode-use</a></li> <li>• <a href="#">dlg:button</a></li> <li>• <a href="#">dlg:chart</a></li> <li>• <a href="#">dlg:image</a></li> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:section</a></li> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	In the <b>Advanced properties</b> dialog box accessed from the <b>Interactive</b> tab of the object properties, the <b>Link</b> drop-down list
list-can-multi-select	Bool	<p>When <b>static-list</b> or <b>variable-list</b> is specified for the <b>content-pick-type</b> attribute, specifies whether the end user can select multiple items from the list</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Allow multiple select</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
list-can-sort	Bool	<p>When <code>static-list</code> or <code>variable-list</code> is specified for the <code>content-pick-type</code> attribute, specifies whether the list is sorted for display in LiveEditor</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Sort list items</b> check box
list-display-variable	Ref	<p>When <code>variable-list</code> is specified for the <code>content-pick-type</code> attribute, a reference to the variable that provides the content of the list</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Display values for list population</b> box
list-return-variable	Ref	<p>When <code>static-list</code> or <code>variable-list</code> is specified for the <code>content-pick-type</code> attribute, a reference to the variable that stores the index of the drop-down list item the end user selects. This variable must be an array if <code>true</code> is specified for the <code>list-can-multi-select</code> attribute.</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Selection index variable</b> box
list-type	Enum	<p>Not used</p> <p><b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but dropdown is always specified.</p>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
live-caption-text	Text	<p>The text that appears for the object in the Outline Viewer in LiveEditor</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"><li>• <a href="#">dlg:barcode-use</a></li><li>• <a href="#">dlg:button</a></li><li>• <a href="#">dlg:chart</a></li><li>• <a href="#">dlg:chart-overlay</a></li><li>• <a href="#">dlg:document</a></li><li>• <a href="#">dlg:image</a></li><li>• <a href="#">dlg:index</a></li><li>• <a href="#">dlg:page</a></li><li>• <a href="#">dlg:paragraph</a></li><li>• <a href="#">dlg:section</a></li><li>• <a href="#">dlg:shape</a></li><li>• <a href="#">dlg:table</a></li><li>• <a href="#">dlg:table-of-contents</a></li><li>• <a href="#">dlg:text</a></li><li>• <a href="#">dlg:variable-use</a></li><li>• <a href="#">fo:basic-link</a></li><li>• <a href="#">fo:inline</a></li></ul>	On the <b>Interactive</b> tab of the object properties, the <b>Live caption</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
live-inheritance-type	Enum	<p>Specifies how a section or paragraph inherits the Live settings of the parent section</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• always—Inherit all Live properties from the attributes of the <code>dlg:live</code> element for the parent <code>dlg:section</code> element.</li> <li>• honor-parent—Inherit Live properties from the attributes of the <code>dlg:live</code> element for the parent <code>dlg:section</code> element for attributes that have not been set in this <code>dlg:live</code> element.</li> <li>• never—Do not inherit Live properties from the parent section; use only properties specified by the attributes in this <code>dlg:live</code> element.</li> </ul> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:section</code></li> </ul>	On the <b>Interactive</b> tab of the paragraph or section properties, the <b>Honor parent's properties</b> drop-down list
live-validation	Enum	<p>Specifies how an end user is notified of an entry that is invalid based on the variable referenced by the <code>content-variable-oi</code> attribute</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• default—The default validation option from the Live setting object in Design Manager is used.</li> <li>• warn—The end user receives a warning message, but can choose to continue to edit the Live document. This option is the default.</li> <li>• require—The end user must correct the invalid data and cannot navigate away from the invalid field until it is corrected.</li> </ul> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:text</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	In the <b>Advanced properties</b> dialog box accessed from the <b>Interactive</b> tab of the object properties, the <b>Validation</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
selection-prompt-type	Enum	<p>When <code>variable-user</code> is specified for the <code>hidden-type</code> attribute, the text that appears in the dialog box when an end user clicks the content selection group</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>edit-area-name</code>—Use the text specified for the <code>editable-area-name</code> attribute.</li> <li>• <code>object-name</code>—Use the text specified for the <code>reference-name</code> attribute of the parent element.</li> <li>• <code>pickup-text</code>—Use the content of the area of text or variable. This value is valid only for the parent elements <code>dlg:text</code>, <code>dlg:variable-use</code>, <code>fo:basic-link</code>, and <code>fo:inline</code>.</li> <li>• <code>live-caption</code>—Use the text specified for the <code>live-caption-text</code> attribute.</li> </ul> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:barcode-use</code></li> <li>• <code>dlg:button</code></li> <li>• <code>dlg:chart</code></li> <li>• <code>dlg:chart-overlay</code></li> <li>• <code>dlg:document</code></li> <li>• <code>dlg:image</code></li> <li>• <code>dlg:index</code></li> <li>• <code>dlg:page</code></li> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:section</code></li> <li>• <code>dlg:shape</code></li> <li>• <code>dlg:table</code></li> <li>• <code>dlg:table-of-contents</code></li> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Selection prompt</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
selector-value	Text	<p>When <code>variable-auto</code> or <code>variable-user</code> is specified for the <code>hidden-type</code> attribute, the value associated with the parent object that is stored in the variable referenced by the <code>variable-for-selector</code> attribute</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"><li>• <code>dlg:barcode-use</code></li><li>• <code>dlg:button</code></li><li>• <code>dlg:chart</code></li><li>• <code>dlg:chart-overlay</code></li><li>• <code>dlg:document</code></li><li>• <code>dlg:image</code></li><li>• <code>dlg:index</code></li><li>• <code>dlg:page</code></li><li>• <code>dlg:paragraph</code></li><li>• <code>dlg:section</code></li><li>• <code>dlg:shape</code></li><li>• <code>dlg:table</code></li><li>• <code>dlg:table-of-contents</code></li><li>• <code>dlg:text</code></li><li>• <code>dlg:variable-use</code></li><li>• <code>fo:basic-link</code></li><li>• <code>fo:inline</code></li></ul>	On the <b>Interactive</b> tab of the object properties, the <b>Value</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
show-tab	Bool	<p>Specifies whether the tab order index of the object represented by the parent element is shown in LiveEditor</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:barcode-use</a></li> <li>• <a href="#">dlg:button</a></li> <li>• <a href="#">dlg:chart</a></li> <li>• <a href="#">dlg:image</a></li> <li>• <a href="#">dlg:index</a></li> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:table-of-contents</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Show tab index</b> check box
static-hyperlink	Text	<p>When static-hyperlink is specified for the link-type attribute, the link to follow when an end user clicks the object</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:barcode-use</a></li> <li>• <a href="#">dlg:button</a></li> <li>• <a href="#">dlg:chart</a></li> <li>• <a href="#">dlg:image</a></li> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:section</a></li> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	In the <b>Advanced properties</b> dialog box accessed from the <b>Interactive</b> tab of the object properties, the <b>Link</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
tab-stop	Bool	<p>Specifies whether the object represented by the parent element is a tab stop in LiveEditor</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:barcode-use</a></li> <li>• <a href="#">dlg:button</a></li> <li>• <a href="#">dlg:chart</a></li> <li>• <a href="#">dlg:image</a></li> <li>• <a href="#">dlg:index</a></li> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:table-of-contents</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Tab stop</b> check box
text-field-minimum-width	Int	<p>The minimum width, in logical units, of a text edit area</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	In the <b>Advanced properties</b> dialog box accessed from the <b>Interactive</b> tab of the object properties, the <b>Minimum width of edit area</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>text-field-type</b>	Enum	<p>When <code>true</code> is specified for the <code>can-type</code> attribute, the type of text entry provided for end users in LiveEditor</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>text</code>—Use standard text entry, and do not highlight the existing content when the end user initially places the cursor in the editable area.</li> <li>• <code>data</code>—Use standard text entry, and highlight the existing content when the end user initially places the cursor in the editable area. This value is invalid when the parent element is <a href="#">dlg:table</a>.</li> <li>• <code>form</code>—Use a form field for text entry. This value is invalid when the parent element is <a href="#">dlg:table</a>.</li> <li>• <code>none</code>—Do not use a text entry method. This value is valid only for non-textual parent elements and is equivalent to omitting this attribute.</li> </ul> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the drop-down list beside the <b>Text edit</b> check box

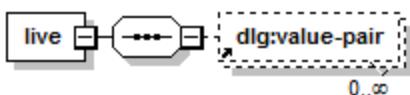
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
tool-tip	Text	<p>The tooltip that appears for the object in LiveEditor</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:barcode-use</a></li> <li>• <a href="#">dlg:button</a></li> <li>• <a href="#">dlg:chart</a></li> <li>• <a href="#">dlg:chart-overlay</a></li> <li>• <a href="#">dlg:image</a></li> <li>• <a href="#">dlg:index</a></li> <li>• <a href="#">dlg:paragraph</a></li> <li>• <a href="#">dlg:section</a></li> <li>• <a href="#">dlg:shape</a></li> <li>• <a href="#">dlg:table</a></li> <li>• <a href="#">dlg:table-of-contents</a></li> <li>• <a href="#">dlg:text</a></li> <li>• <a href="#">dlg:variable-use</a></li> <li>• <a href="#">fo:basic-link</a></li> <li>• <a href="#">fo:inline</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Tip and description</b> box
upload-prompt	Text	<p>When <code>file-upload</code> is specified for the <code>content-pick-type</code> attribute, the text that appears in the object before the end user uploads text or an image</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <a href="#">dlg:image</a></li> <li>• <a href="#">dlg:text</a></li> </ul>	On the <b>Interactive</b> tab of the object properties, the <b>Prompt to display when there is no image</b> box
use-variable-mask	Bool	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
user-hidden	Bool	<p>When <code>user-atomic</code> is specified for the <code>hidden-type</code> attribute, specifies whether the object or text area represented by the parent element is hidden by default in LiveEditor</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"><li>• <code>dlg:barcode-use</code></li><li>• <code>dlg:button</code></li><li>• <code>dlg:chart</code></li><li>• <code>dlg:chart-overlay</code></li><li>• <code>dlg:document</code></li><li>• <code>dlg:image</code></li><li>• <code>dlg:index</code></li><li>• <code>dlg:page</code></li><li>• <code>dlg:paragraph</code></li><li>• <code>dlg:section</code></li><li>• <code>dlg:shape</code></li><li>• <code>dlg:table</code></li><li>• <code>dlg:table-of-contents</code></li><li>• <code>dlg:text</code></li><li>• <code>dlg:variable-use</code></li><li>• <code>fo:basic-link</code></li><li>• <code>fo:inline</code></li></ul>	On the <b>Interactive</b> tab of the object properties, the <b>Initially hidden</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
variable-for-selector	Ref	<p>When variable-auto or variable-user is specified for the hidden-type attribute, a reference to the content selection group array variable that controls the content selection group</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"><li>• <a href="#">dlg:barcode-use</a></li><li>• <a href="#">dlg:button</a></li><li>• <a href="#">dlg:chart</a></li><li>• <a href="#">dlg:chart-overlay</a></li><li>• <a href="#">dlg:document</a></li><li>• <a href="#">dlg:image</a></li><li>• <a href="#">dlg:index</a></li><li>• <a href="#">dlg:page</a></li><li>• <a href="#">dlg:paragraph</a></li><li>• <a href="#">dlg:section</a></li><li>• <a href="#">dlg:shape</a></li><li>• <a href="#">dlg:table</a></li><li>• <a href="#">dlg:table-of-contents</a></li><li>• <a href="#">dlg:text</a></li><li>• <a href="#">dlg:variable-use</a></li><li>• <a href="#">fo:basic-link</a></li><li>• <a href="#">fo:inline</a></li></ul>	On the <b>Interactive</b> tab of the object properties, the <b>Selection group variable</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
variable-hyperlink	Ref	<p>When <code>variable-hyperlink</code> is specified for the <code>link-type</code> attribute, a reference to the variable that specifies the link to follow when an end user clicks the object</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:barcode-use</code></li> <li>• <code>dlg:button</code></li> <li>• <code>dlg:chart</code></li> <li>• <code>dlg:image</code></li> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:section</code></li> <li>• <code>dlg:shape</code></li> <li>• <code>dlg:table</code></li> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	In the <b>Advanced properties</b> dialog box accessed from the <b>Interactive</b> tab of the object properties, the <b>Link variable</b> box
want-fill	Bool	<p>When <code>local</code> is specified for the <code>form-field-source</code> attribute, specifies whether the form field background is filled. When <code>true</code> is specified for this attribute, the <code>fill-color</code> attribute is used to specify the color.</p> <p>Valid for the following parent elements:</p> <ul style="list-style-type: none"> <li>• <code>dlg:paragraph</code></li> <li>• <code>dlg:text</code></li> <li>• <code>dlg:variable-use</code></li> <li>• <code>fo:basic-link</code></li> <li>• <code>fo:inline</code></li> </ul>	In the <b>Field Properties</b> dialog box for the text entry area, the <b>Fill</b> color well. A value of <code>false</code> is equivalent to selecting <b>None</b> .

## Structure



## Example

```
<dlg:text>
  <dlg:live allow-form-insert="true" auto-size="true" can-be-moved=
    "false" can-be-resized="false" can-be-rotated="false"
    can-change-format="false" can-change-properties="false"
    can-change-text-properties="false" can-do-object-properties="0"
    can-type="true" comb-type="box" content-pick-type="static-list"
    content-variable-index="0" content-variable-oi=
    "Variable|560|Plan_Desc" editable-area-name="test name"
    editing-change-type="optional" enable-variable-oi="Variable|0|"
    exclude-from-outline="false" fill-color="rgb(196,196,196)"
    form-field-library="Form Field|0|" form-field-source="local"
    form-height="200" form-mask-name="" form-space="10" form-width=
    "100" function-call-button-end="Function|2|test_function_2"
    function-call-button-start="Function|0|" hidden-type="user-atomic"
    line-color="rgb(0,0,0)" line-width="1" link-type="none"
    list-can-multi-select="false" list-can-sort="true"
    list-display-variable="Variable|0|" list-return-variable=
    "Variable|531|Customer_Age" list-type="dropdown" live-caption-text=
    "test Live caption" live-inheritance-type="always" live-validation=
    "default" selection-prompt-type="pickup-text" selector-value="18"
    show-tab="true" static-hyperlink="" tab-stop="true"
    text-field-minimum-width="100" text-field-type="data" tooltip=
    "test tip and description" user-hidden="false"
    variable-for-selector="Variable|0|" variable-hyperlink=
    "Variable|0|" want-fill="false"/>
  <dlg:rect bottom="513.00pt" left="225.00pt" right="369.00pt" top=
    "468.00pt"/>
  <fo:flow display-align="auto" height="625.00lu" margin-bottom=
    "0.00lu" margin-left="0.00lu" margin-right="0.00lu" margin-top=
    "0.00lu" width="2000.00lu">
    <fo:block>
      <fo:inline color="" font-family="Times New Roman" font-size=
        "10.00pt" font-style="normal" letter-spacing="0.00pt">test text
    </fo:inline>
    </fo:block>
  </fo:flow>
</dlg:text>
```

### 4.3.11 value-pair (dlg:value-pair)

The `dlg:value-pair` element defines an entry in the drop-down list from which the end user selects content when `static-list` is specified for the `content-pick-type` attribute of the parent `dlg:live` element.

#### Parents

`dlg:live`

#### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>name</code>	Text	The name that appears in the content selection list	In the <b>List Items</b> dialog box, the <b>Text of selected item</b> box
<code>value</code>	Text	The value that is stored in the variable specified by the <code>list-return-variable</code> attribute of the parent <code>dlg:live</code> element when this item is selected in the content selection list	

#### Structure

**value-pair**

#### Example

```
<dlg:text>
  <dlg:live ... content-pick-type="static-list" ...
    editing-change-type="optional" ...
    list-return-variable="Variable|531|Customer_Age" ...
  <dlg:value-pair name="Joe Customer" value="customer,joe" />
  <dlg:value-pair name="Sally Customer" value="customer,sally" />
  <dlg:rect ...>
  <fo:flow ...>
    ...
  </fo:flow>
</dlg:text>
```

### 4.3.12 variable (dlg:variable)

Although the `dlg:variable` element is a standard Exstream Design and Production Library object, it contains some Live-specific attributes. For a full description of the element and its attributes, see “[variable \(dlg:variable\)](#)” on page 557.

### 4.3.13 variable-use (dlg:variable-use)

Although the `dlg:variable-use` element is a standard Exstream Design and Production Library object, it contains an attribute with Live-specific settings. For a full description of the element and its attributes, see “[variable-use \(dlg:variable-use\)](#)” on page 584.

## 4.4 Reference Elements

Reference elements represent the design objects that are used for the reference features typically found in documents, such as tables of contents, indexes, cross-references, hyperlinks, and footnotes.

For more information about the design objects that are represented by elements in this section, see *Designing Customer Communications* in the Exstream Design and Production documentation.

This section contains the following elements:

- “[back-toc-frames \(dlg:back-toc-frames\)](#)” on the next page
- “[basic-link \(fo:basic-link\)](#)” on page 475
- “[cross-reference \(fo:cross-reference\)](#)” on page 483
- “[footnote \(fo:footnote\)](#)” on page 485
- “[footnote-body \(fo:footnote-body\)](#)” on page 489
- “[front-toc-frames \(dlg:front-toc-frames\)](#)” on page 491
- “[hyperlink-anchor \(dlg:hyperlink-anchor\)](#)” on page 492
- “[index \(dlg:index\)](#)” on page 493
- “[index-entry \(dlg:index-entry\)](#)” on page 499
- “[index-entry-level \(dlg:index-entry-level\)](#)” on page 502
- “[index-level \(dlg:index-level\)](#)” on page 504
- “[internal-link \(dlg:internal-link\)](#)” on page 507
- “[table-of-contents \(dlg:table-of-contents\)](#)” on page 508
- “[table-of-contents-entry \(dlg:table-of-contents-entry\)](#)” on page 512
- “[table-of-contents-level \(dlg:table-of-contents-level\)](#)” on page 515

## 4.4.1 back-toc-frames (dlg:back-toc-frames)

The `dlg:back-toc-frame` element contains a flow frame (using a `dlg:frame` element) on the back of a page in XML (composed) output produced by the engine. The `dlg:back-toc-frames` element is not used in imported DXF.

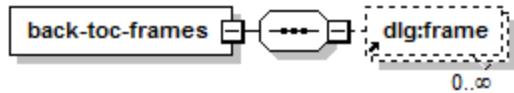
### Parents

`dlg:page`

### Attributes

None.

### Structure



## 4.4.2 basic-link (fo:basic-link)

The fo:basic-link element represents a hyperlink within a text box.

### Parents

fo:basic-link  
fo:block  
fo:inline  
leader (fo:leader)  
wrapper (fo:wrapper)

### Attributes

In addition to the following attributes, the fo:basic-link element uses one or more of the common attributes found in “[Shared XSL-FO Attributes](#)” on page 650.

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
destination-placement-offset	Text	Not used	
external-destination	Text	The destination URL for the hyperlink	In the <b>Hyperlink Properties</b> dialog box (accessed from the <b>Add text hyperlink</b> context menu selection), the <b>Static link</b> drop-down list and box
indicate-destination	Bool	Not used	
internal-destination	Text	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
link-type	Enum	<p>Specifies whether the object links to an external URL or to an internal hyperlink anchor</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—The object does not link to a URL or a hyperlink anchor.</li> <li>• <b>static</b>—The object links to the URL specified for the <b>static-hyperlink</b> attribute.</li> <li>• <b>dynamic</b>—The object links to the URL provided by the variable referenced by the <b>variable-hyperlink</b> attribute.</li> <li>• <b>internal</b>—The object links to the internal location specified for the <b>hyperlink-anchor</b> attribute.</li> </ul>	In the <b>Hyperlink Properties</b> dialog box for the object, the <b>Static link</b> , <b>Dynamic link</b> , and <b>Internal link</b> radio buttons
meta-props-alternate-text	Text	The text that an accessibility tool reads to represent the object when <b>read-alternate-text</b> is specified for the <b>meta-props-options</b> attribute	On the <b>Accessibility</b> tab of the object properties, the <b>Alternate text</b> box

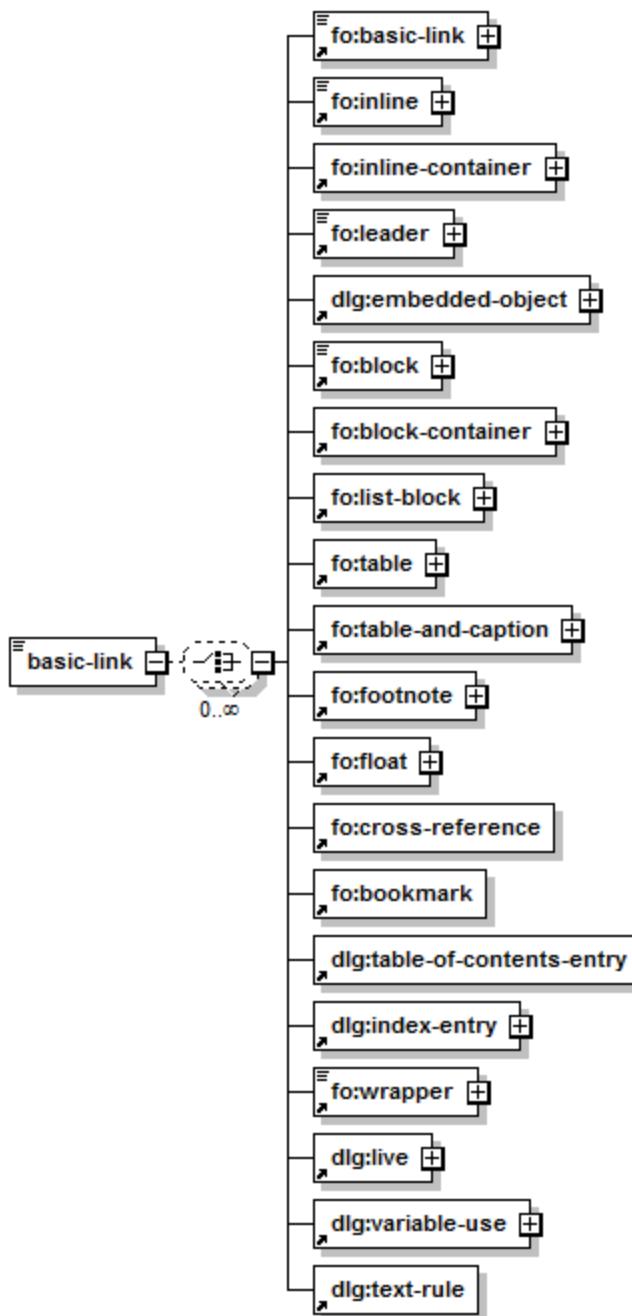
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-language	Enum	<p>The language used when the <code>meta-props-options</code> attribute is set to <code>read-alternate-text</code> or <code>read-object-text</code>. If this attribute is omitted and no other parent object has a language specified, the default customer language is used. If this attribute is omitted and a parent object has a language specified, the language on the parent object is inherited.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>default</code>—The default customer language</li> <li>• <code>amharic</code>—Amharic</li> <li>• <code>arabic</code>—Arabic</li> <li>• <code>armenian</code>—Armenian</li> <li>• <code>bengali</code>—Bengali</li> <li>• <code>catalan</code>—Catalan</li> <li>• <code>cebuano</code>—Cebuano</li> <li>• <code>chinese</code>—Chinese (PRC)</li> <li>• <code>chinese-tw</code>—Chinese (Taiwan)</li> <li>• <code>chinese-hk</code>—Chinese (Hong Kong SAR)</li> <li>• <code>chinese-sg</code>—Chinese (Singapore)</li> <li>• <code>czech</code>—Czech</li> <li>• <code>danish</code>—Danish</li> <li>• <code>dutch</code>—Dutch</li> <li>• <code>english-us</code>—English (American)</li> <li>• <code>english-au</code>—English (Australian)</li> <li>• <code>english-uk</code>—English (British)</li> <li>• <code>farsi</code>—Farsi (Persian)</li> <li>• <code>finnish</code>—Finnish</li> <li>• <code>french</code>—French</li> <li>• <code>french-creole</code>—French Creole</li> <li>• <code>french-ca</code>—French (Canadian)</li> <li>• <code>german</code>—German</li> <li>• <code>gujarati</code>—Gujarati</li> <li>• <code>hawaiian</code>—Hawaiian</li> <li>• <code>hindi</code>—Hindi</li> <li>• <code>hmong</code>—Hmong</li> </ul>	On the <b>Accessibility</b> tab of the object properties, the <b>Accessibility language</b> list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• hungarian—Hungarian</li> <li>• igbo—Igbo</li> <li>• ilokano—Ilokano</li> <li>• italian—Italian</li> <li>• japanese—Japanese</li> <li>• khmer—Khmer</li> <li>• korean—Korean</li> <li>• kru—Kru</li> <li>• lao—Lao</li> <li>• marshallese—Marshallese</li> <li>• navajo—Navajo</li> <li>• nepali—Nepali</li> <li>• norway—Norwegian</li> <li>• norway-bokmal—Norwegian (Bokmål)</li> <li>• newnorway—Norwegian (Nynorsk)</li> <li>• oromo—Oromo</li> <li>• pohnpeian—Pohnpeian</li> <li>• polish—Polish</li> <li>• portug—Portuguese</li> <li>• brazil—Portuguese (Brazilian)</li> <li>• punjabi—Punjabi</li> <li>• romanian—Romanian</li> <li>• russian—Russian</li> <li>• samoan—Samoan</li> <li>• spanish—Spanish</li> <li>• swedish—Swedish</li> <li>• tagalog—Tagalog</li> <li>• thai—Thai</li> <li>• tongan—Tongan</li> <li>• turkish—Turkish</li> <li>• ukranian—Ukrainian</li> <li>• urdu—Urdu</li> <li>• vietnamese—Vietnamese</li> <li>• yoruba—Yoruba</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-options	Enum	<p>Specifies whether object text or alternate text is read by accessibility tools</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• do-not-read—Do not read object text or alternate text for this object or for any of its child objects.</li> <li>• read-alternate-text—Read the alternate text specified for the meta-props-alternate-text attribute.</li> <li>• read-object-text—Read the text that is associated with a textual object.</li> </ul>	On the <b>Accessibility</b> tab of the object properties, the <b>Read options</b> list
meta-props-order	Int	The numerical order in which you want the text to be read by accessibility tools when the meta-props-option attribute is set to <b>read-alternate-text</b> or <b>read-object-text</b>	On the <b>Accessibility</b> tab of the object properties, the <b>Read order</b> box
show-destination	Text	Not used	
target-presentation-context	Text	Not used	
target-processing-context	Text	Not used	
target-stylesheet	Text	Not used	
variable-hyperlink	Ref	When variable is specified for the link-type attribute, a reference to the variable that provides the destination URL for the link	On the <b>Hyperlink Properties</b> dialog box for the object, the <b>Dynamic link</b> box
variable-hyperlink-ndx-value	Ref	<p>When an array variable is specified for the link-type attribute, the variable-hyperlink-ndx-value attribute defines the index of a destination URL stored in the variable referenced by the variable-hyperlink attribute.</p> <p>This attribute is available only for run-time imports.</p>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>variable-hyperlink-ndx-var</b>	Ref	<p>When an array variable is specified for the <code>link-type</code> attribute, the <code>variable-hyperlink-ndx-var</code> attribute defines a variable that is evaluated and then used as the index of a destination URL stored in the variable referenced by the <code>variable-hyperlink</code> attribute.</p> <p>This attribute is available only for run-time imports.</p>	

## Structure



## Example

```
<fo:basic-link color="" external-destination="http://www.opentext.com"
font-family="" font-size="1.00pt" font-style="normal" is-comment="false"
letter-spacing="0.00pt" linefeed-treatment="ignore">
    <fo:inline color="" font-family="Times New Roman" font-size="10.00pt"
font-style="normal" is-comment="false" letter-spacing="0.00pt"
page-break-before="auto">OpenText website</fo:inline>
</fo:basic-link>
```

### 4.4.3 cross-reference (fo:cross-reference)

The `fo:cross-reference` element represents a cross-reference target, associated with a cross-reference variable (represented in DXF by a `dlg:variable` element with `crossref` specified for the `var-calc-method` attribute) that stores the page or paragraph in which the target appears. The cross-reference variable that identifies the target can be used in cross-references in text elsewhere in the document.

#### Parents

```
fo:basic-link
fo:block
block-container (fo:block-container)
float (fo:float)
fo:flow
fo:footnote-body
fo:inline
inline-container (fo:inline-container)
list-item-body (fo:list-item-body)
list-item-label (fo:list-item-label)
table-caption (fo:table-caption)
fo:table-cell
wrapper (fo:wrapper)
```

## Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
populate	Enum	<p>Specifies whether the variable referenced by the <code>variable</code> attribute stores the page number or paragraph number of the target defined by this element</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <code>page-number</code>—Reference the page number.</li><li>• <code>paragraph-number</code>—Reference the paragraph number.</li></ul>	In the <b>Cross Reference Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Cross Reference</b> context menu selection), the <b>Populate the cross reference variable with</b> drop-down list
variable	Ref	A reference to a cross-reference variable used to store the page or paragraph number of the target	In the <b>Cross Reference Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Cross Reference</b> context menu selection), the <b>Specify the variable to set for this cross-reference ID</b> box

## Structure

**cross-reference**

## Example

```
<fo:block end-indent="0lu" is-comment="false" keep-together="auto"
keep-with-next="auto" line-height="0lu" line-spacing="single"
space-after="0lu" space-before="0lu" start-indent="0lu" tab-ruler="7"
text-align="left" text-indent="0lu" usage-rule="Rule|0|">
    <fo:cross-reference populate="page-number"
        variable="Variable|588|Teaser_Page_Cross_Ref"/>
    <fo:inline color="" font-family="Times New Roman" font-size="10.00pt"
        font-style="normal" is-comment="false" letter-spacing="0.00pt"
        page-break-before="auto">This text is the target of a
        cross-reference.</fo:inline>
</fo:block>
```

#### 4.4.4 footnote (fo:footnote)

The fo:footnote element specifies a footnote identifier within a block of text.

#### Parents

```
fo:basic-link
fo:block
block-container (fo:block-container)
float (fo:float)
fo:flow
fo:footnote-body
fo:inline
inline-container (fo:inline-container)
leader (fo:leader)
list-item-body (fo:list-item-body)
list-item-label (fo:list-item-label)
table-caption (fo:table-caption)
fo:table-cell
wrapper (fo:wrapper)
```

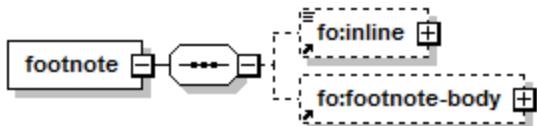
#### Attributes

In addition to the following attributes, the fo:footnote element uses one or more of the common attributes found in ["Shared XSL-FO Attributes" on page 650](#).

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
content	Enum	<p>The content source for the footnote</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>text</b>—Use a child <code>fo:footnote-body</code> element to specify the footnote text.</li> <li>• <b>variable</b>—Use the variable referenced by the <code>variable</code> attribute to provide the footnote text.</li> <li>• <b>text-message</b>—Use the message referenced by the <code>message</code> attribute to provide the footnote text.</li> </ul>	In the <b>Footnote Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Footnote</b> context menu selection), the <b>Content</b> drop-down list
identifier-placement	Enum	<p>The placement of the footnote identifier</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>current</b>—Place the footnote identifier within the body of the text.</li> <li>• <b>left</b>—Place the footnote identifier outside the left margin of the line containing the footnote reference.</li> </ul>	In the <b>Footnote Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Footnote</b> context menu selection), the <b>Identifier location</b> drop-down list
include	Enum	<p>Specifies the conditions under which the footnote is included</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>always</b>—Always include the footnote for all customers.</li> <li>• <b>var-gt-0</b>—Include the footnote if the variable referenced by the <code>include-variable</code> attribute has text content or a value greater than zero.</li> <li>• <b>var-ne-1</b>—Include the footnote if the variable does not have content or is equal to zero.</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <b>if-count-var</b></li> <li>• <b>if-not-count-var</b></li> </ul>	In the <b>Footnote Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Footnote</b> context menu selection), the <b>When to include</b> drop-down list
include-variable	Ref	When <code>var-gt-0</code> or <code>var-ne-1</code> is specified for the <code>include</code> attribute, a reference to the variable that determines whether the footnote is included	In the <b>Footnote Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Footnote</b> context menu selection), the <b>Reference variable</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
message	Ref	When <code>text-message</code> is specified for the <code>content</code> attribute, a reference to the message that provides the footnote text	In the <b>Footnote Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Footnote</b> context menu selection), the drop-down list that contains the available text messages
numbering-method	Enum	<p>Specifies whether the footnote is numbered or uses a specific marker, and whether duplicate footnotes share the specific marker</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>auto</code>—Allow the footnote to be numbered automatically according to its location in the document.</li> <li><code>specific</code>—Use a specific marker to identify the footnote. The marker is specified using a child <code>fo:inline</code> element.</li> <li><code>specific-collapse</code>—Use a specific marker to identify the footnote, and have duplicate footnotes use the same identifier automatically. The marker is specified using a child <code>fo:inline</code> element.</li> </ul>	In the <b>Footnote Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Footnote</b> context menu selection), the <b>Numbering</b> drop-down list
placement	Enum	<p>The location of the footnote within the customer documents</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>anywhere</code>—Place the footnote text anywhere within any of the documents for the customer.</li> <li><code>same-page</code>—Place the footnote text on the same page as the text it references.</li> <li><code>same-document</code>—Place the footnote text in the same document as the text it references, but not necessarily on the same page.</li> </ul>	In the <b>Footnote Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Footnote</b> context menu selection), the <b>Placement</b> drop-down list
variable	Ref	When <code>variable</code> is specified for the <code>content</code> attribute, a reference to the variable that provides the footnote text	In the <b>Footnote Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Footnote</b> context menu selection), the variable box below the <b>Identifier location</b> drop-down list

## Structure



## Example

```
<fo:block ...>
  <fo:inline ...>This text includes a footnote.</fo:inline>
  <fo:footnote content="text" identifier-placement="current" include=
  "always" numbering-method="specific" placement="anywhere">
    <fo:inline*></fo:inline>
    <fo:footnote-body>
      <fo:block>This is a note about the above text.</fo:block>
    </fo:footnote-body>
  </fo:footnote>
  <fo:inline ...> This text follows the footnote identifier.</fo:inline>
</fo:block>
```

## 4.4.5 footnote-body (fo:footnote-body)

The `fo:footnote-body` element represents static text in a footnote. This element is used when text is specified for the `content` attribute of the parent `fo:footnote` element.

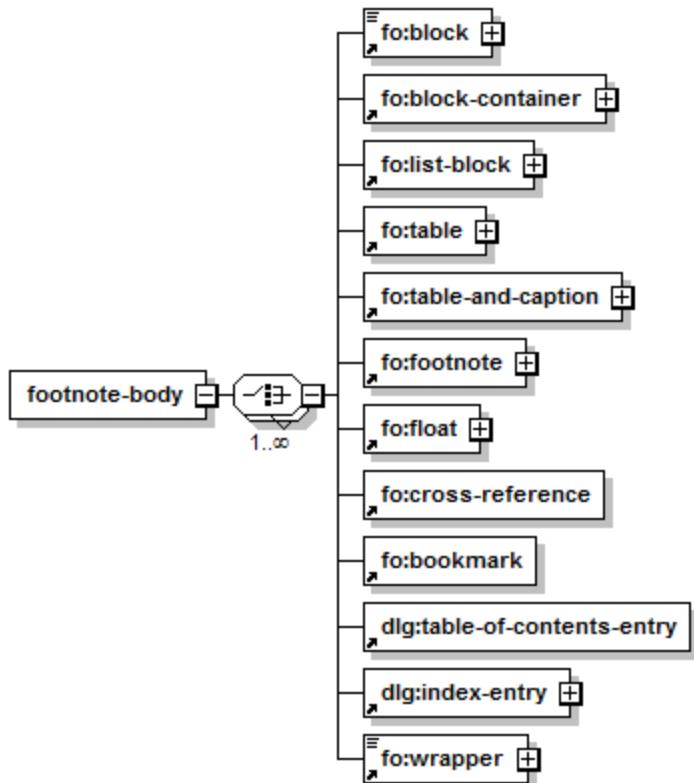
### Parents

`footnote (dlg:footnote)`

### Attributes

The `fo:footnote-body` element uses one or more of the common attributes found in “[Shared XSL-FO Attributes](#)” on page 650.

### Structure



## Example

```
<fo:block ...>
  <fo:inline ...>This text includes a footnote.</fo:inline>
  <fo:footnote content="text" identifier-placement="current" include=
  "always" numbering-method="specific" placement="anywhere">
    <fo:inline>*</fo:inline>
    <fo:footnote-body>
      <fo:block>This is a note about the above text.</fo:block>
    </fo:footnote-body>
  </fo:footnote>
  <fo:inline ...> This text follows the footnote identifier.</fo:inline>
</fo:block>
```

## 4.4.6 front-toc-frames (dlg:front-toc-frames)

The `dlg:front-toc-frame` element contains a flow frame (using a `dlg:frame` element) on the front of a page in XML (composed) output produced by the engine. The `dlg:front-toc-frames` element is not used in imported DXF.

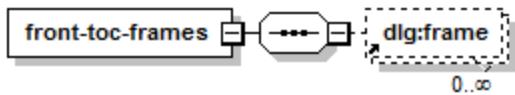
### Parents

`dlg:page`

### Attributes

None.

### Structure



## 4.4.7 hyperlink-anchor (dlg:hyperlink-anchor)

The `dlg:hyperlink-anchor` element represents a hyperlink anchor Library object in Exstream Design and Production. A hyperlink anchor object marks the destination of an internal hyperlink. If the `dlg:internal-link` element is present in the DXF, a hyperlink anchor element with the corresponding object identifier (OI) reference will also be in the DXF.

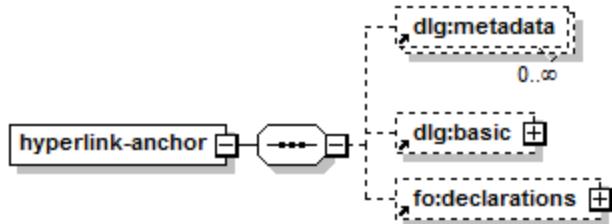
### Parents

`fo:declarations`

### Attributes

Attribute	Data type	Description
<code>schemaVersion</code>	Int	The schema version for this DXF document
<code>xmlns:dlg</code>	Text	The URI for the Exstream namespace
<code>xmlns:dxf</code>	Text	The URI for the DXF namespace
<code>xmlns:fo</code>	Text	The URI for the XSL-FO namespace

### Structure



### Example

```
<dlg:hyperlink-anchor>
  <dlg:basic folder="Folder|2000000000|Exstream" oid="16">
    <dlg:name>All_Accounts</dlg:name>
    <dlg:description>Summary of all accounts.</dlg:description>
  </dlg:basic>
</dlg:hyperlink-anchor>
```

## 4.4.8 index (dlg:index)

The `dlg:index` element represents an index placeholder design object.

### Parents

`dlg:embedded-object`

`dlg:object`

`dlg:objects`

### Attributes

In addition to the following attributes, the `dlg:index` element uses one or more of the common attributes found in “[Shared Design Object Attributes](#)” on page 635.

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>column-width</code>	Int	When <code>right</code> is specified for the <code>page-number-position</code> attribute, the width, in logical units, of the column that contains the page numbers	On the <b>Index</b> tab of the index properties, the <b>Column width</b> box
<code>custom-heading-order</code>	Enum	When any value except <code>none</code> is specified for the <code>custom-heading-position</code> attribute, the order of the custom headings  One of the following: <ul style="list-style-type: none"><li>• <code>alphabetical</code>—Arrange the headings alphabetically.</li><li>• <code>page-order</code>—Arrange the headings by the page numbers on which the entries within each heading appear.</li><li>• <code>current-locale</code>—Arrange the headings according to the current locale settings, taking language-specific characters into account.</li></ul>	On the <b>Index</b> tab of the index properties, the <b>Heading order</b> drop-down list for custom headings

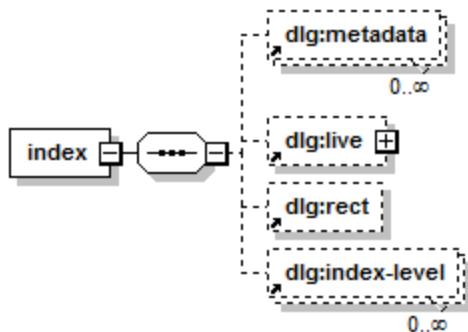
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
custom-heading-position	Enum	<p>Specifies whether custom index headings are displayed, and where they appear within the index</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not display custom headings.</li> <li>• inline—Display custom headings and arrange them in order along with the alphabetical headings.</li> <li>• before-alpha—Display custom headings before all the alphabetical headings.</li> <li>• after-alpha—Display custom headings after all the alphabetical headings.</li> </ul> <p>If <code>false</code> is specified for the <code>display-alphabetic-headings</code> attribute, specifying any value except <code>none</code> for the <code>custom-heading-position</code> attribute causes custom headings to be displayed.</p>	On the <b>Index</b> tab of the index properties, the <b>Display custom headings</b> check box and the <b>Heading position</b> drop-down list for custom headings
display-alphabetic-headings	Bool	Specifies whether alphabetical headings are displayed	On the <b>Index</b> tab of the index properties, the <b>Display alphabetic headings</b> check box
entry-order	Enum	<p>The order in which entries appear under each heading</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• alphabetical—Arrange the entries alphabetically.</li> <li>• page-order—Arrange the entries by the page numbers to which they refer.</li> <li>• current-locale—Arrange the entries according to the current locale settings, taking language-specific characters into account.</li> </ul>	On the <b>Index</b> tab of the index properties, the <b>Entry order</b> drop-down list
entry-wrap	Bool	Specifies whether index entries that are longer than a single line wrap to the next line. If <code>false</code> is specified for this attribute, entries that are longer than a single line are truncated.	On the <b>Index</b> tab of the index properties, the <b>Wrap entry text</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
heading-justification	Enum	<p>When true is specified for the <code>display-alphabetic-headings</code> attribute, or when any value except none is specified for the <code>custom-heading-position</code> attribute, the alignment of the index headings</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>left</code></li> <li>• <code>right</code></li> <li>• <code>center</code></li> <li>• <code>span</code></li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <code>both</code></li> <li>• <code>nil</code></li> <li>• <code>right-tab</code></li> </ul>	On the <b>Format</b> menu, the <b>Paragraph Alignment</b> selection for the headings in the index
heading-position	Enum	<p>When true is specified for the <code>display-alphabetic-headings</code> attribute, specifies whether a special index heading (specified by the <code>heading-text</code> attribute) is used for non-alphabetical entries and where the heading appears within the index</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Do not include a special heading for non-alphabetical entries.</li> <li>• <code>before-alpha</code>—Include a special heading for non-alphabetical entries and place it before all the alphabetical headings.</li> <li>• <code>after-alpha</code>—Include a special heading for non-alphabetical entries and place it after all the alphabetical headings.</li> </ul> <p>The following value is not used:</p> <ul style="list-style-type: none"> <li>• <code>inline</code></li> </ul>	On the <b>Index</b> tab of the index properties, the <b>Use special heading for non-alpha entries</b> check box and the <b>Heading position</b> drop-down list for the special heading
heading-text	Text	When <code>before-alpha</code> or <code>after-alpha</code> is specified for the <code>heading-position</code> attribute, the text of the special index heading used for non-alphabetical entries	On the <b>Index</b> tab of the index properties, the <b>Heading text</b> box for the special heading

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
justification	Enum	<p>When <code>right</code> is specified for the <code>page-number-position</code> attribute, the alignment of the page numbers in the column</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>left</code></li> <li>• <code>right</code></li> <li>• <code>center</code></li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <code>both</code></li> <li>• <code>nil</code></li> <li>• <code>right-tab</code></li> <li>• <code>span</code></li> </ul>	On the <b>Index</b> tab of the index properties, the <b>Column alignment</b> drop-down list
leader	Text	<p>When <code>right</code> is specified for the <code>page-number-position</code> attribute, the character used for the leader that appears before the page number</p> <p>Must be one of the following characters:</p> <ul style="list-style-type: none"> <li>• <code>.</code> (period)</li> <li>• <code>,</code> (comma)</li> <li>• <code>:</code> (colon)</li> <li>• <code>-</code> (hyphen)</li> <li>• <code>_</code> (underscore)</li> </ul>	On the <b>Index</b> tab of the index properties, the <b>Leader</b> drop-down list
level-indent	Int	The amount of space, in logical units, to indent each level of the index	On the <b>Index</b> tab of the index properties, the <b>Level indent</b> box
num-levels	Int	<p>The number of levels to include in the index, not including headings. To allow Exstream to automatically determine the levels to include in the index, specify <code>0</code> for this attribute. A child <code>dlg:index-level</code> element should be included for each level anticipated in the index, including headings.</p> <p>Must be in the range <code>0–3</code></p>	On the <b>Index</b> tab of the index properties, the <b>Levels to include</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
page-number-position	Enum	<p>Specifies whether page numbers appear in the index and where the page number appears in each index entry</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not show page numbers.</li> <li>• append—Show page numbers following the text in each entry.</li> <li>• right—Show page numbers in a separate column.</li> </ul>	On the <b>Index</b> tab of the index properties, the <b>Show page number of entries</b> check box and the <b>Position</b> drop-down list
show-duplicates	Bool	<p>Not used</p> <p><b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but <code>false</code> is always specified.</p>	
show-every-page	Bool	<p>When <code>append</code> or <code>right</code> is specified for the <code>page-number-position</code> attribute, specifies how multiple instances of the same index entry in a document are handled. If <code>true</code> is specified for this attribute, the page numbers are shown for every instance of the entry in the document. If <code>false</code> is specified for this attribute, only the page number of the first instance of the entry is shown.</p>	On the <b>Index</b> tab of the index properties, the <b>Duplicate entries</b> drop-down list

## Structure



## Example

```
<dlg:index can-split="false" column-width="500" current-angle="0"
custom-heading-position="none" delay-comp="none" design-var-ndx="0"
display-alphabetic-headings="true" entry-order="page-order" entry-wrap=
="true" flip-h="false" flip-v="false" flow-around="no" flow-break=
"auto" h-auto-size="false" heading-justification="left"
heading-position="before-alpha" heading-text="#" ignore-relative="no"
justification="right" language="Language|0|" level-indent="250"
lock-proportions="false" meta-props-language="default"
meta-props-options="read-object-text" meta-props-order="1" num-levels=
"3" page-number-position="right" pen="true" pen-color="rgb(0,0,0)"
pen-style="solid" pen-width="1lu" pos-rel-to-above="0" ref-id=
"5708590" reference-name="Index" shadow="none" show-duplicates="false"
show-every-page="false" v-auto-size="false">
    <dlg:rect bottom="747.00pt" left="135.00pt" right="495.00pt" top=
"351.00pt"/>
    <dlg:index-level color="rgb(116,116,116)" font-family="Times New Roman"
font-size="20.00pt" font-style="normal" font-weight="bold"
level-indent="0" space-above="100"/>
    <dlg:index-level color="rgb(0,0,0)" font-family="Times New Roman"
font-size="16.00pt" font-style="normal" level-indent="0"
space-above="200"/>
    <dlg:index-level color="rgb(0,0,0)" font-family="Times New Roman"
font-size="10.00pt" font-style="normal" level-indent="2"
space-above="100"/>
    <dlg:index-level color="rgb(0,0,0)" font-family="Times New Roman"
font-size="10.00pt" font-style="normal" level-indent="1"
space-above="100"/>
</dlg:index>
```

## 4.4.9 index-entry (dlg:index-entry)

The `dlg:index-entry` element represents an index entry for a selection of text. The custom heading properties of the index entry are defined by the attributes of this element, and the index entries themselves are defined by child `dlg:index-entry-level` elements.

A `dlg:index-entry` element and its child elements represent the structure below a single first-level entry. A separate `dlg:index-entry` element should be included for each first-level entry and the sub-entries below it.

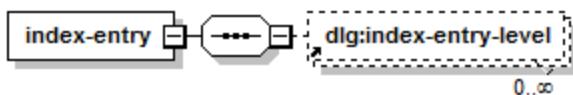
### Parents

```
fo:basic-link
fo:block
block-container (fo:block-container)
float (fo:float)
fo:flow
fo:footnote-body
fo:inline
inline-container (fo:inline-container)
list-item-body (fo:list-item-body)
list-item-label (fo:list-item-label)
table-caption (fo:table-caption)
fo:table-cell
wrapper (fo:wrapper)
```

## Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
custom-heading	Enum	<p>The source of the text that appears for the custom heading</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—Do not place this index entry under a custom heading.</li> <li>• <b>paragraph</b>—Place this index entry under a custom heading and use all of the text in the paragraph as the custom heading text. This value is valid only when the <code>dlg:index-entry</code> element is a child of an <code>fo:block</code> element.</li> <li>• <b>variable</b>—Place this index entry under a custom heading, and use the variable referenced by the <code>custom-heading-variable</code> attribute to provide custom heading text.</li> <li>• <b>text</b>—Place this index entry under a custom heading, and use the text specified for the <code>custom-heading-text</code> attribute as the custom heading text.</li> </ul>	In the <b>Index Entry Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Index Entries</b> context menu selection), the <b>Place this entry under a custom heading</b> check box and drop-down list
custom-heading-text	Text	When <code>text</code> is specified for the <code>custom-heading</code> attribute, the text to use as the custom heading text	In the <b>Index Entry Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Index Entries</b> context menu selection), the <b>Place this entry under a custom heading</b> box
custom-heading-variable	Ref	When <code>variable</code> is specified for the <code>custom-heading</code> attribute, a reference to the variable that contains the custom heading text	In the <b>Index Entry Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Index Entries</b> context menu selection), the <b>Place this entry under a custom heading</b> variable box

## Structure



## Example

```
<fo:block ...>
  <dlg:index-entry custom-heading="static" custom-heading-text="Custom
  index heading for first primary index entry">
    <dlg:index-entry-level source="static"
    text="First level 1 index entry"/>
    <dlg:index-entry-level source="static"
    text="Level 2 index entry for first primary entry"/>
    <dlg:index-entry-level source="static"
    text="Level 3 index entry for first primary entry"/>
  </dlg:index-entry>
  <dlg:index-entry custom-heading="static"
  custom-heading-text=
  "Custom index heading for second primary index entry">
    <dlg:index-entry-level source="static"
    text="Second level 1 index entry"/>
    <dlg:index-entry-level source="static"
    text="Level 2 index entry for second primary entry"/>
  </dlg:index-entry>
  <fo:inline ...>This is the text for an index entry</fo:inline>
</fo:block>
```

## 4.4.10 index-entry-level (dlg:index-entry-level)

The `dlg:index-entry-level` element defines the text for a single level in the structure of a single first-level index entry. A separate `dlg:index-entry-level` element should be included for the first-, second-, and third-level entries, as needed.

The order of `dlg:index-entry-level` elements determines the index level associated with each element. The first `dlg:index-entry-level` element is associated with the first-level entry, the second is associated with the second-level entry, and the third is associated with the third-level entry.

### Parents

`dlg:index-entry`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
source	Enum	<p>The source of the text that appears for the index entry</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <code>paragraph</code>—Use all of the text in the paragraph as the index entry text. This value is valid only when the parent <code>dlg:index-entry</code> element is a child of an <code>fo:block</code> element.</li><li>• <code>variable</code>—Use the variable referenced by the <code>variable</code> attribute to provide custom text for the index entry for each customer.</li><li>• <code>text</code>—Use the text specified for the <code>text</code> attribute as the index entry text.</li></ul> <p>The following value is not used:</p> <ul style="list-style-type: none"><li>• <code>none</code></li></ul>	In the <b>Index Entry Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Index Entry</b> context menu selection), the <b>Level 1</b> , <b>Level 2</b> , or <b>Level 3</b> drop-down list (depending on the relative position of this <code>dlg:index-entry-level</code> element)

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
text	Text	When <code>text</code> is specified for the <code>source</code> attribute, the text to use as the index entry text	In the <b>Index Entry Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Index Entry</b> context menu selection), the <b>Level 1</b> , <b>Level 2</b> , or <b>Level 3</b> box (depending on the relative position of this <code>dlg:index-entry-level</code> element)
variable	Ref	When <code>variable</code> is specified for the <code>source</code> attribute, a reference to the variable that contains the index entry text	In the <b>Index Entry Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add Index Entry</b> context menu selection), the <b>Level 1</b> , <b>Level 2</b> , or <b>Level 3</b> variable box (depending on the relative position of this <code>dlg:index-entry-level</code> element)

## Structure

**index-entry-level**

## Example

```
<dlg:index-entry custom-heading="static" custom-heading-text="Custom
index heading for first primary index entry">
    <dlg:index-entry-level source="static"
        text="First level 1 index entry"/>
    <dlg:index-entry-level source="static"
        text="Level 2 index entry for first primary entry"/>
    <dlg:index-entry-level source="static"
        text="Level 3 index entry for first primary entry"/>
</dlg:index-entry>
```

## 4.4.11 index-level (dlg:index-level)

The `dlg:index-level` element represents a level in an index and defines the font and spacing properties for the index level.

A `dlg:index-level` element should be included for each level anticipated in the index, including headings (even if both custom and alphabetical index headings are disabled). Since three index levels are supported, up to four `dlg:index-level` elements can be included. If the value specified for the `num-levels` attribute of the parent `dlg:index` element is greater than 0, there typically should be one more `dlg:index-level` element than that number, in order to account for headings and all specified levels.

The order of `dlg:index-level` elements determines the index level associated with each element. The first `dlg:index-level` element is always associated with headings, even if both custom and alphabetical index headings are disabled. The second is associated with first-level entries, the third is associated with second-level entries, and the fourth is associated with third-level entries.

### Parents

`dlg:index`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>color</code>	Color	The color of the text at the index level associated with this element	In the object properties or the <b>Select Font</b> dialog box for the index level (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Color</b> color well
<code>font</code>	Text	Not used	
<code>font-family</code>	Text	The font face of the text at the index level associated with this element	In the <b>Select Font</b> dialog box for the index level (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Font</b> box and list
<code>font-selection-strategy</code>	Enum	Not used	
<code>font-size</code>	Int	The font size, in points, of the text at the index level associated with this element	In the <b>Select Font</b> dialog box for the index level (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Point size</b> drop-down list
<code>font-size-adjust</code>	Text	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>font-stretch</code>	Enum	Not used	
<code>font-style</code>	Enum	<p>Specifies whether the text at the index level associated with this element is italic</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>normal</code></li> <li>• <code>italic</code></li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• <code>backslant</code></li> <li>• <code>oblique</code></li> </ul>	In the <b>Select Font</b> dialog box for the index level (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Italic</b> check box
<code>font-variant</code>	Enum	Not used	
<code>font-weight</code>	Enum	<p>Specifies whether the text at the index level associated with this element is bold</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>normal</code></li> <li>• <code>bold</code></li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• <code>bolder</code></li> <li>• <code>lighter</code></li> <li>• <code>100</code></li> <li>• <code>200</code></li> <li>• <code>300</code></li> <li>• <code>400</code></li> <li>• <code>500</code></li> <li>• <code>600</code></li> <li>• <code>700</code></li> <li>• <code>800</code></li> <li>• <code>900</code></li> </ul>	In the <b>Select Font</b> dialog box for the index level (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Bold</b> check box
<code>level-indent</code>	Int	The indentation level of the index level associated with this element, relative to the next higher level. The integer value specified for this attribute is multiplied by the value specified for the <code>level-indent</code> attribute of the parent <code>dlg:index</code> element in order to determine the actual distance to indent this level relative to the level above it.	On the Formatting toolbar, the  and  buttons

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
space-above	Int	The space, in logical units between the text in the index level associated with this element and text in the next higher level	

## Structure

index-level

## Example

```
<dlg:index ...>
  ...
  <dlg:index-level color="rgb(116,116,116)" font-family="Times New Roman"
    font-size="20.00pt" font-style="normal" font-weight="bold"
    level-indent="0" space-above="100"/>
  <dlg:index-level color="rgb(0,0,0)" font-family="Times New Roman"
    font-size="16.00pt" font-style="normal" level-indent="0"
    space-above="200"/>
  <dlg:index-level color="rgb(0,0,0)" font-family="Times New Roman"
    font-size="10.00pt" font-style="normal" level-indent="2"
    space-above="100"/>
  <dlg:index-level color="rgb(0,0,0)" font-family="Times New Roman"
    font-size="10.00pt" font-style="normal" level-indent="1"
    space-above="100"/>
</dlg:index>
```

## 4.4.12 internal-link (dlg:internal-link)

The `dlg:internal-link` element represents an internal hyperlink applied to a selection of text. If the internal link element is present in the DXF, a `dlg:hyperlink-anchor` element with the corresponding object identifier (OI) reference will also be in the DXF.

### Parents

`fo:block`

### Attribute

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>hyperlink-anchor</code>	Ref	A reference to the hyperlink anchor object that marks the internal destination for the link	In Designer, the <b>Choose Hyperlink Anchor</b> dialog box for the selected text to which the internal hyperlink is applied

### Structure



```
<internal-link>
```

### Example

```
<fo:block end-indent="0lu" is-comment="false" keep-together="auto" keep-with-next="auto" line-height="0lu" line-spacing="single" space-after="50lu" space-before="200lu" start-indent="0lu" tab-ruler="6" text-align="left" text-indent="0lu" usage-rule="Rule|0|">
  <dlg:internal-link hyperlink-anchor="Hyperlink Anchor|1|Declarations"/>
  <fo:inline color="rgb(0,128,255)">this is an internal
  hyperlink.</fo:inline>
</fo:block>
```

## 4.4.13 table-of-contents (dlg:table-of-contents)

The `dlg:table-of-contents` element represents a table of contents placeholder design object.

### Parents

`dlg:embedded-object`

`dlg:object`

`dlg:objects`

### Attributes

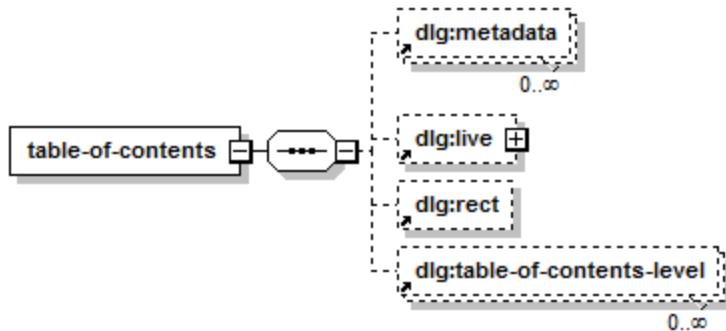
In addition to the following attributes, the `dlg:table-of-contents` element uses one or more of the common attributes found in ["Shared Design Object Attributes" on page 635](#).

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>column-width</code>	Int	When <code>right</code> is specified for the <code>page-number-position</code> attribute, the width, in logical units, of the column that contains the page numbers	On the <b>Table of Contents</b> tab of the table of contents properties, the <b>Column width</b> box
<code>entry-wrap</code>	Bool	Specifies whether table of contents entries that are longer than a single line wrap to the next line. If <code>false</code> is specified for this attribute, entries that are longer than a single line are truncated.	On the <b>Table of Contents</b> tab of the table of contents properties, the <b>Wrap entry text</b> check box
<code>justification</code>	Enum	When <code>right</code> is specified for the <code>page-number-position</code> attribute, the alignment of the page numbers in the column  One of the following: <ul style="list-style-type: none"><li>• <code>left</code></li><li>• <code>right</code></li><li>• <code>center</code></li></ul> The following values are not used: <ul style="list-style-type: none"><li>• <code>both</code></li><li>• <code>nil</code></li><li>• <code>right-tab</code></li><li>• <code>span</code></li></ul>	On the <b>Table of Contents</b> tab of the table of contents properties, the <b>Column alignment</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
leader	Text	<p>When <code>right</code> is specified for the <code>page-number-position</code> attribute, the character used for the leader that appears before the page number</p> <p>Must be one of the following characters:</p> <ul style="list-style-type: none"> <li>• . (period)</li> <li>• , (comma)</li> <li>• : (colon)</li> <li>• – (hyphen)</li> <li>• _ (underscore)</li> </ul>	On the <b>Table of Contents</b> tab of the table of contents properties, the <b>Leader string</b> check box and drop-down list
level-indent	Int	The amount of space, in logical units, to indent each level of the table of contents	On the <b>Table of Contents</b> tab of the table of contents properties, the <b>Tab size</b> box
num-levels	Int	<p>The number of levels to include in the table of contents. To allow Exstream to automatically determine the levels to include in the table of contents, specify <code>0</code> for this attribute. A child <code>dlg:index-level</code> element should be included for each level anticipated in the table of contents.</p> <p>Must be in the range <code>0–6</code></p>	On the <b>Table of Contents</b> tab of the table of contents properties, the <b>Levels to include</b> drop-down list
page-number-position	Enum	<p>Specifies whether page numbers appear in the table of contents and where the page number appears in each entry</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Do not show page numbers.</li> <li>• <code>append</code>—Show page numbers following the text in each entry.</li> <li>• <code>right</code>—Show page numbers in a separate column.</li> </ul>	On the <b>Table of Contents</b> tab of the table of contents properties, the <b>Page number position</b> drop-down list
toc-hyperlink	Bool	In PDF or HTML output, specifies whether the entries in the table of contents are hyperlinks that allow navigation to the associated locations in the document	On the <b>Table of Contents</b> tab of the table of contents properties, the <b>Hyperlink</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
toc-type	Enum	<p>Specifies the scope of the table of contents</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <b>complete</b>—The table of contents applies to all documents for each customer.</li><li>• <b>sub-document</b>—The table of contents applies only to the document in which it is located.</li></ul>	On the <b>Table of Contents</b> tab of the table of contents properties, the <b>Type</b> drop-down list

## Structure



## Example

```
<dlg:table-of-contents can-split="false" column-width="500"
current-angle="0" delay-comp="none" design-var-ndx="0" entry-wrap=
"true" flip-h="false" flip-v="false" flow-around="no" flow-break=
"auto" h-auto-size="false" ignore-relative="no" justification="right"
language="Language|0|" leader=".." level-indent="250" lock-proportions=
"false" meta-props-language="default" meta-props-options=
"read-object-text" meta-props-order="2" num-levels="4"
page-number-position="right-column" pen="true" pen-color="rgb(0,0,0)"
pen-style="solid" pen-width="1lu" pos-rel-to-above="0" ref-id="80001"
reference-name="TOC" shadow="none" toc-hyperlink="true" toc-type=
"complete" v-auto-size="false">
    <dlg:rect bottom="756.00pt" left="306.00pt" right="585.00pt" top=
"513.00pt"/>
    <dlg:table-of-contents-level color="rgb(0,0,0)" font-family="Times
New Roman" font-size="10.00pt" font-style="normal" include-leaders=
"false" level-indent="0" space-above="100"/>
    <dlg:table-of-contents-level color="rgb(0,0,0)" font-family="Times
New Roman" font-size="10.00pt" font-style="normal" include-leaders=
"false" level-indent="1" space-above="100"/>
    <dlg:table-of-contents-level color="rgb(0,0,0)" font-family="Times
New Roman" font-size="10.00pt" font-style="normal" include-leaders=
"false" level-indent="1" space-above="100"/>
    <dlg:table-of-contents-level color="rgb(0,0,0)" font-family="Times
New Roman" font-size="10.00pt" font-style="normal" include-leaders=
"false" level-indent="1" space-above="100"/>
</dlg:table-of-contents>
```

## 4.4.14 table-of-contents-entry (dlg:table-of-contents-entry)

The `dlg:table-of-contents-entry` element represents a table of contents entry within a selection of text.

### Parents

```
fo:basic-link
fo:block
block-container (fo:block-container)
float (fo:float)
fo:flow
fo:footnote-body
fo:inline
inline-container (fo:inline-container)
list-item-body (fo:list-item-body)
list-item-label (fo:list-item-label)
table-caption (fo:table-caption)
fo:table-cell
wrapper (fo:wrapper)
```

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
level	Int	The level at which the associated table of contents entry appears in the table of contents	In the <b>TOC Entry Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add TOC Entry</b> context menu selection), the <b>Entry</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
source	Enum	<p>The source of the text that appears for the table of contents entry</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>paragraph—Use all of the text in the paragraph as the table of contents entry text. This value is valid only when this element is a child of an <code>fo:block</code> element.</li> <li>variable—Use the variable referenced by the <code>variable</code> attribute to provide custom text for the table of contents entry for each customer.</li> <li>text—Use the text specified for the <code>text</code> attribute as the table of contents entry text.</li> </ul> <p>The following value is not used:</p> <ul style="list-style-type: none"> <li>none</li> </ul>	In the <b>TOC Entry Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add TOC Entry</b> context menu selection), the <b>Text source</b> drop-down list
text	Text	When <code>text</code> is specified for the <code>source</code> attribute, the text to use as the table of contents entry text	In the <b>TOC Entry Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add TOC Entry</b> context menu selection), the <b>Text source</b> box
variable	Ref	When <code>variable</code> is specified for the <code>source</code> attribute, a reference to the variable that contains the table of contents entry text	In the <b>TOC Entry Properties</b> dialog box (accessed from the <b>Paragraph &gt; Add TOC Entry</b> context menu selection), the <b>Text source</b> variable box

## Structure

table-of-contents-entry

## Example

```
<fo:block ...>
  <dlg:table-of-contents-entry level="1" source="static" text="Sample
  Level 1 TOC entry"/>
  <fo:inline ...>Sample Level 1 Heading</fo:inline>
</fo:block>
<fo:block ...>
  <fo:inline ...>This is the overview text under the level 1 heading.</fo:inline>
</fo:block>
<fo:block ...>
  <dlg:table-of-contents-entry level="2" source="static" text="Sample
  Level 2 TOC entry"/>
  <fo:inline ...>Sample Level 2 Heading</fo:inline>
</fo:block>
<fo:block ...>
  <fo:inline ...>This is the text under the level 2 heading.</fo:inline>
</fo:block>
```

## 4.4.15 table-of-contents-level (dlg:table-of-contents-level)

The `dlg:table-of-contents-level` element represents a level in a table of contents and defines the font and spacing properties for the table of contents level

A `dlg:table-of-contents-level` element should be included for each level anticipated in the table of contents. Since six index levels are supported, up to six `dlg:table-of-contents-level` elements can be included. If the value specified for the `num-levels` attribute of the parent `dlg:table-of-contents` element is greater than 0, the number of `dlg:table-of-contents-level` elements should typically match that value.

The order of `dlg:table-of-contents-level` elements determines the index level associated with each element. The first `dlg:table-of-contents-level` element is associated with first-level entries, the second is associated with second-level entries, and so on.

### Parents

`dlg:table-of-contents`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>color</code>	Color	The color of the text at the table of contents level associated with this element	In the <b>Select Font</b> dialog box for the table of contents level (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Color</b> color well
<code>font</code>	Text	Not used	
<code>font-family</code>	Text	The font face of the text at the table of contents level associated with this element	In the <b>Select Font</b> dialog box for the table of contents level (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Font</b> box and list
<code>font-selection-strategy</code>	Enum	Not used	
<code>font-size</code>	Int	The font size, in points, of the text at the table of contents level associated with this element	In the <b>Select Font</b> dialog box for the table of contents level (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Point size</b> drop-down list
<code>font-size-adjust</code>	Text	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>font-stretch</code>	Enum	Not used	
<code>font-style</code>	Enum	<p>Specifies whether the text at the table of contents level associated with this element is italic</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>normal</code></li> <li>• <code>italic</code></li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• <code>backslant</code></li> <li>• <code>oblique</code></li> </ul>	In the <b>Select Font</b> dialog box for the table of contents level (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Italic</b> check box
<code>font-variant</code>	Enum	Not used	
<code>font-weight</code>	Enum	<p>Specifies whether the text at the table of contents level associated with this element is bold</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>normal</code></li> <li>• <code>bold</code></li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• <code>bolder</code></li> <li>• <code>lighter</code></li> <li>• <code>100</code></li> <li>• <code>200</code></li> <li>• <code>300</code></li> <li>• <code>400</code></li> <li>• <code>500</code></li> <li>• <code>600</code></li> <li>• <code>700</code></li> <li>• <code>800</code></li> <li>• <code>900</code></li> </ul>	In the <b>Select Font</b> dialog box for the table of contents level (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Bold</b> check box
<code>include-leaders</code>	Bool	Not used	<p><b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but <code>false</code> is always specified.</p>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
level-indent	Int	The indentation level of the table of contents level associated with this element, relative to the next higher level. The integer value specified for this attribute is multiplied by the value specified for the <code>level-indent</code> attribute of the parent <code>dlg:table-of-contents</code> element in order to determine the actual distance to indent this level relative to the level above it.	On the Formatting toolbar, the  and  buttons
space-above	Int	The space, in logical units between the text in the table of contents level associated with this element and text in the next higher level	

## Structure

**table-of-contents-level**

## Example

```
<dlg:table-of-contents ...>
  ...
  <dlg:table-of-contents-level color="rgb(0,0,0)" font-family="Times New Roman" font-size="10.00pt" font-style="normal" include-leaders="false" level-indent="0" space-above="100"/>
  <dlg:table-of-contents-level color="rgb(0,0,0)" font-family="Times New Roman" font-size="10.00pt" font-style="normal" include-leaders="false" level-indent="1" space-above="100"/>
  <dlg:table-of-contents-level color="rgb(0,0,0)" font-family="Times New Roman" font-size="10.00pt" font-style="normal" include-leaders="false" level-indent="1" space-above="100"/>
  <dlg:table-of-contents-level color="rgb(0,0,0)" font-family="Times New Roman" font-size="10.00pt" font-style="normal" include-leaders="false" level-indent="1" space-above="100"/>
</dlg:table-of-contents>
```

## 4.5 Marketing Elements

Marketing elements represent campaigns and messages, which are used to manage distribution of marketing and informational messages to customers.

For more information about the marketing objects that are represented by elements in this section, see *Managing Marketing Messages* in the Exstream Design and Production documentation.

This section contains the following elements:

- “campaign (dlg:campaign)” on the next page
- “campaign-reference (dlg:campaign-reference)” on page 529
- “campaign-run (dlg:campaign-run)” on page 530
- “formula-text (dlg:formula-text)” on page 532
- “message (dlg:message)” on page 533
- “message-content (dlg:message-content)” on page 544
- “message-use (dlg:message-use)” on page 546
- “priority-formula (dlg:priority-formula)” on page 547
- “ref-many-jurisdiction (dlg:ref-many-jurisdiction)” on page 548
- “teaser-message (dlg:teaser-message)” on page 550

## 4.5.1 campaign (dlg:campaign)

The `dlg:campaign` element represents a campaign Library object.

The messages in the campaign can be fully defined using `dlg:message` child elements, or referenced using `dlg:message-use` child elements. The order of these elements determines the order of the messages used in the campaign.

Some of the attributes of this element limit the customers to whom the campaign is sent. Keep in mind that all of the conditions defined by those attributes apply at the same time. For example, if a rule is specified for the `usage-rule` attribute, and `if-respond` is specified for the `target-activity` attribute, and `true` is specified for the `in-file` attribute, then the campaign is sent only to customers for whom the specified rule is true, who responded to the previous campaign specified by the `campaign` attribute, and who are in the list in the reference file specified by the `if-in-file` attribute.

### Parents

`dlg:application`

Additionally, `dlg:campaign` can be a root element.

## Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
activity-delay-type	Enum	<p>When any value except none is specified for the <code>target-activity</code> attribute, specifies how to send the campaign if the criteria specified by the <code>target-activity</code> attribute are met for the previously-sent campaign</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Send the campaign immediately if the criteria specified by the <code>target-activity</code> attribute are met for the previous campaign.</li> <li>• <code>times</code>—Send the campaign if the criteria specified by the <code>target-activity</code> attribute are met for the previous campaign, and if the previous campaign has been sent the number of times specified by the <code>was-sent-times</code> attribute.</li> <li>• <code>days</code>—Send the campaign if the criteria specified by the <code>target-activity</code> attribute are met for the previous campaign, and if it has been the number of days specified by the <code>was-sent-times</code> attribute since the previous campaign was sent.</li> </ul>	On the <b>Targeting</b> tab of the campaign properties, the <b>Action</b> drop down list
all-msg-together	Bool	<p>Not used</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but <code>false</code> is always specified.         </div>	
always-first	Bool	<p>Not used</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but <code>false</code> is always specified.         </div>	
campaign	Ref	<p>When any value except none is specified for the <code>target-activity</code> attribute, a reference to the previously-sent campaign that determines the inclusion of this campaign for a customer</p>	On the <b>Targeting</b> tab of the campaign properties, the <b>Previous campaign</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
campaign-type	Enum	<p>Specifies the circumstances under which the campaign can force the document to add pages to fit the campaign</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>filler</b>—Do not force the document to add pages to fit the campaign.</li> <li>• <b>only-if-free</b>—Force the document to add pages to fit the campaign, only if doing so does not add any additional postage.</li> <li>• <b>always</b>—Force the document to add pages to fit the campaign, only if doing so does not exceed the marketing page limit set on the application object.</li> <li>• <b>must-go</b>—Force the document to add pages to fit the campaign, regardless of any other limitations.</li> <li>• <b>content-only</b>—Force the document to add pages to fit the campaign, only if the campaign was intended to be placed only in content flow frames.</li> <li>• <b>exclude-all-if-no-teaser</b>—Do not include the remaining campaign content if the document cannot fit the teaser message for the campaign.</li> <li>• <b>exclude-all-if-add-postage</b>—Do not include the remaining campaign content if additional pages would be necessary, and if their addition would add additional postage.</li> </ul>	On the <b>Targeting</b> tab of the campaign properties, the <b>Campaign-driven pages</b> drop-down list
can-be-used	Bool	Specifies whether the campaign can be used in production	
exclusivity	Enum	Not used	<p><b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but <b>non-exclusive</b> is always specified.</p>
frequency	Int	When <b>customer</b> is specified for the <b>tracking-level</b> attribute, and a value greater than 1 is specified for the <b>max-times-to-send</b> attribute, the number of days to wait before the campaign can be sent again	On the <b>Distribution</b> tab of the campaign properties, the <b>Minimum days between each time this is sent to same customer</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>if-in-file</code>	Ref	When <code>true</code> is specified for the <code>in-file</code> attribute, a reference to the reference file that specifies the list of customers to which the campaign is sent	On the <b>Targeting</b> tab of the campaign properties, the <b>Send to customers listed in reference file</b> box
<code>in-file</code>	Bool	Specifies whether the campaign is sent to a list of customers specified by the reference file referenced by the <code>if-in-file</code> attribute	On the <b>Targeting</b> tab of the campaign properties, the <b>Send to customers listed in reference file</b> check box
<code>max-job-times</code>	Int	When <code>summary</code> or <code>customer</code> is specified for the <code>tracking-level</code> attribute, the maximum number of times the campaign can be sent in a single engine run	On the <b>Distribution</b> tab of the campaign properties, the <b>Limit copies of this campaign sent in one Engine run</b> check box and box
<code>max-times-to-send</code>	Int	When <code>customer</code> is specified for the <code>tracking-level</code> attribute, the maximum number of times an individual customer can receive the campaign	On the <b>Distribution</b> tab of the campaign properties, the <b>Limit total copies of this campaign sent to a customer</b> check box and box
<code>max-total-times</code>	Int	When <code>summary</code> or <code>customer</code> is specified for the <code>tracking-level</code> attribute, the maximum number of times the campaign can be sent overall	On the <b>Distribution</b> tab of the campaign properties, the <b>Limit total copies of this campaign sent to all customer</b> check box and box
<code>priority</code>	Int	When <code>constant</code> is specified for the <code>priority-type</code> attribute, the priority level of the campaign	On the <b>Priority</b> tab of the campaign properties, the <b>Priority</b> box
<code>priority-type</code>	Enum	<p>Specifies how the priority for this campaign compared to other campaigns is determined</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>rules</code>—The priority level for each customer is determined by the rule specified within a <code>dlg:priority-formula</code> child element.</li> <li>• <code>constant</code>—The priority level specified for the <code>priority</code> attribute is used for all customers.</li> </ul>	On the <b>Priority</b> tab of the campaign properties, the <b>Method for specifying priority of this campaign compared to other campaigns</b> drop-down list

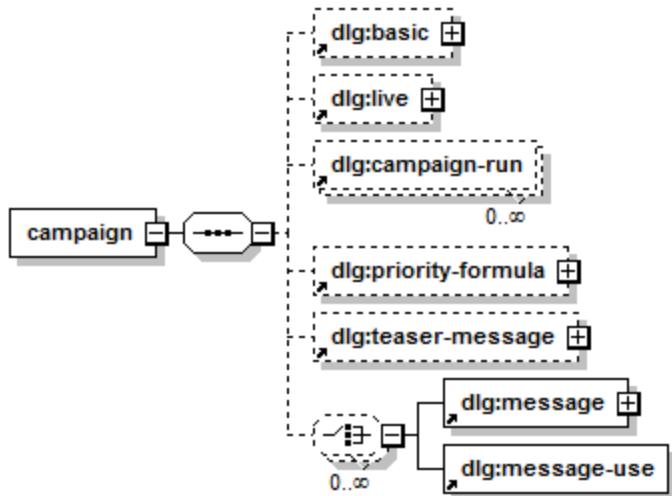
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
rule-timing	Enum	<p>Specifies when the rule referenced by the <code>usage-rule</code> attribute is applied to the campaign</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>end</code>—Run the rule once, after all customer data is available.</li> <li>• <code>beginning</code>—Run the rule once, after only the initial customer data is available.</li> <li>• <code>named-first</code>—Run the rule each time the section with the name specified for the <code>rule-timing-section</code> attribute is encountered, until all data sections have been read, or the campaign is included once for the customer.</li> <li>• <code>named-all</code>—Run the rule each time the section with the name specified for the <code>rule-timing-section</code> attribute is encountered, until all data sections have been read, and include the campaign each time the rule applies.</li> </ul>	On the <b>Targeting</b> tab of the campaign properties, the <b>When to run</b> drop-down list
rule-timing-section	Text	When <code>named-first</code> or <code>named-all</code> is specified for the <code>rule-timing</code> attribute, the name of the data section for which the rule is run	On the <b>Targeting</b> tab of the campaign properties, the box adjacent to the <b>When to run</b> drop-down list
run-plan	Enum	<p>Specifies how dates specified within <code>dlg:campaign-run</code> child elements apply to the campaign</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>always</code>—Deliver the campaign without any date restrictions.</li> <li>• <code>include-dates</code>—Deliver the campaign only within the date ranges specified within <code>dlg:campaign-run</code> child elements.</li> <li>• <code>exclude-dates</code>—Deliver the campaign at any date except within the date ranges specified within <code>dlg:campaign-run</code> child elements.</li> </ul>	On the <b>Dates</b> tab of the campaign properties, the <b>Active dates</b> drop down list
schemaVersion	Int	The schema version for this DXF document	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
target-activity	Enum	<p>Specifies how a customer response to the previous campaign (referenced by the <code>campaign</code> attribute) determines whether to send this campaign</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Send the campaign, regardless of whether any previous campaign was sent or received a response.</li> <li>• <code>if-sent</code>—Send the campaign (according to the action specified for the <code>activity-delay-type</code> attribute) if the campaign referenced by the <code>campaign</code> attribute was previously sent to the customer, regardless of whether the customer responded to that campaign.</li> <li>• <code>if-respond</code>—Send the campaign (according to the action specified for the <code>activity-delay-type</code> attribute) if the campaign referenced by the <code>campaign</code> attribute was previously sent to the customer and if the customer responded to that campaign.</li> <li>• <code>if-not-respond</code>—Send the campaign (according to the action specified for the <code>activity-delay-type</code> attribute) if the campaign referenced by the <code>campaign</code> attribute was previously sent to the customer and if the customer did not respond to that campaign.</li> </ul>	On the <b>Targeting</b> tab of the campaign properties, the <b>Send to customer based on previous campaign</b> drop-down list
target-method	Enum		
teaser	Ref	A reference to the teaser message used with the campaign	On the <b>Basic</b> tab of the campaign properties, the <b>Teaser message</b> box
track-begin	Date	The date on which tracking of the campaign begins	In the <b>Period</b> dialog box, accessed from the <b>Date Range</b> box on the <b>Distribution</b> tab of the campaign properties, the <b>From</b> boxes and drop-down list
track-end	Date	The date on which tracking of the campaign ends	In the <b>Period</b> dialog box, accessed from the <b>Date Range</b> box on the <b>Distribution</b> tab of the campaign properties, the <b>To</b> boxes and drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
tracking-level	Enum	The type of information to track for the campaign  One of the following: <ul style="list-style-type: none"><li>• <b>none</b>—Do not track the campaign.</li><li>• <b>summary</b>—Track a summary of information about the campaign, but do not track information about the customers who receive the campaign.</li><li>• <b>customer</b>—Track a summary of information about the campaign and track information about each of the customers who receives the campaign.</li></ul>	On the <b>Distribution</b> tab of the campaign properties, the <b>Customer</b> drop-down list
until-response	Bool	When <b>customer</b> is specified for the <b>tracking-level</b> attribute, specifies whether the campaign is no longer sent to each customer after receiving a response from the customer	On the <b>Distribution</b> tab of the campaign properties, the <b>Do not send to customers after response</b> check box
usage-rule	Ref	A reference to the rule that determines the inclusion of the campaign for a customer. If a rule is specified for this attribute, the rule timing should be specified for the <b>rule-timing</b> attribute.	On the <b>Targeting</b> tab of the campaign properties, the <b>Rule</b> box
user-sort1	Text		
user-sort2	Text		
user-sort3	Text		
version	Int	The version number of the campaign object	In the <b>Administration</b> dialog box for the campaign object, the <b>Version</b> box; or, in the history view for the campaign object, the <b>Version</b> column

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
was-sent-times	Int	<p>Specifies one of the following, based on the value of the <code>activity-delay-type</code> attribute:</p> <ul style="list-style-type: none"> <li>When <code>times</code> is specified for the <code>activity-delay-type</code> attribute, the number of times the campaign referenced by the <code>campaign</code> attribute must be sent before sending this campaign</li> <li>When <code>days</code> is specified for the <code>activity-delay-type</code> attribute, the number of days to wait after the campaign referenced by the <code>campaign</code> attribute is sent before sending this campaign</li> </ul>	On the <b>Targeting</b> tab of the campaign properties, the box adjacent to the <b>Action</b> drop down list
which-docs	Enum	<p>Specifies how campaigns are included across multiple documents received by the customer</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>once</code>—Include the campaign only once. If it is included in one document, it cannot be included in any remaining documents.</li> <li><code>copy</code>—Repeat the campaign in each document.</li> <li><code>current</code>—Repeat the campaign in qualified section documents. This option is valid only when <code>named-first</code> or <code>named-all</code> is specified for the <code>rule-timing</code> attribute.</li> </ul>	On the <b>Targeting</b> tab of the campaign properties, the <b>When customer receives multiple documents</b> drop-down list
<code>xmlns:dlg</code>	Text	The URI for the Exstream namespace	
<code>xmlns:dx</code>	Text	The URI for the DXF namespace	
<code>xmlns:fo</code>	Text	The URI for the XSL-FO namespace	

## Structure



## Example

```
<dlg:campaign xmlns:dlg=
"http://www.hpxstream.com/2009/XSL/HPEXstream" activity-delay-type=
"none" all-msg-together="false" always-first="false" campaign=
"Campaign|0|" campaign-type="always" can-be-used="true" exclusivity=
"non-exclusive" frequency="0" if-in-file="InputFile|0|" in-file=
"false" max-job-times="0" max-times-to-send="1" max-total-times="0"
priority="1" priority-type="constant" rule-timing="end"
rule-timing-section="" run-plan="always" schemaVersion="2.0"
target-activity="none" target-method="all" track-begin="" track-end=""
tracking-level="none" until-response="false" usage-rule=
"UsageRule|5|" user-sort1="0.10" user-sort2="123abc" user-sort3=""
was-sent-times="1" which-docs="once" xmlns:dxfs=
"http://www.hpxstream.com/2009/XSL/DXF" xmlns:fo=
"http://www.w3.org/1999/XSL/Format">
    <dlg:basic folder="Folder|2|Marketing" oid="3">
        <dlg:name>Q3 New Service Offers</dlg:name>
    </dlg:basic>
    <dlg:message ...>
        <dlg:basic folder="Folder|2|Marketing" oid="7">
            <dlg:name>Free Incoming Promo</dlg:name>
        </dlg:basic>
        <dlg:message-content xmlns:fo=
"http://www.hpxstream.com/2009/XSL/DXF">
            ...
        </dlg:message-content>
    </dlg:message>
    <dlg:message ...>
        <dlg:basic folder="Folder|2|Marketing" oid="7">
            <dlg:name>American Beauty $170 Promo</dlg:name>
        </dlg:basic>
        <dlg:message-content xmlns:fo=
"http://www.hpxstream.com/2009/XSL/DXF">
            ...
        </dlg:message-content>
    </dlg:message>
    <dlg:message ...>
        <dlg:basic folder="Folder|2|Marketing" oid="7">
            <dlg:name>DSL Offer</dlg:name>
        </dlg:basic>
        <dlg:message-content xmlns:fo=
"http://www.hpxstream.com/2009/XSL/DXF">
            ...
        </dlg:message-content>
    </dlg:message>
</dlg:campaign>
```

## 4.5.2 campaign-reference (dlg:campaign-reference)

The `dlg:campaign-reference` element represents a reference to an existing campaign in the Library.

### Parents

`dlg:application`

### Attribute

Attribute	Data type	Description
<code>campaign-ref</code>	Ref	A reference to an existing campaign in the Library

### Structure

`campaign-reference`

### Example

```
<dlg:application ...>
  ...
  <dlg:campaign-reference campaign-ref="Campaign|3|Q3 New Service Offers" />
</dlg:application>
```

### 4.5.3 campaign-run (dlg:campaign-run)

The `dlg:campaign-run` element represents one of the following, depending on the value of the `run-plan` attribute of the parent `dlg:campaign` element:

- When `include-dates` is specified for the `run-plan` attribute of the parent `dlg:campaign` element, the `dlg:campaign-run` element represents the dates during which the campaign represented by the parent `dlg:campaign` element is included.
- When `exclude-dates` is specified for the `run-plan` attribute of the parent `dlg:campaign` element, the `dlg:campaign-run` element represents the dates during which the campaign represented by the parent `dlg:campaign` element is excluded.

## Parents

`dlg:campaign`

## Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
end-date	Date	The end date of the period during which the campaign is included or excluded	In the <b>Period</b> dialog box, accessed from one of the <b>Data Range</b> boxes on the <b>Dates</b> tab of the campaign properties, the <b>To</b> boxes and drop-down list
start-date	Date	The start date of the period during which the campaign is included or excluded	In the <b>Period</b> dialog box, accessed from one of the <b>Data Range</b> boxes on the <b>Dates</b> tab of the campaign properties, the <b>From</b> boxes and drop-down list
tracking	Bool		

## Structure

`campaign-run`

## Example

```
<dlg:campaign ... run-plan="include-dates" ...>
  ...
  <dlg:campaign-run end-date="2025-04-01" start-date="2025-04-15"
    tracking="true"/>
  <dlg:campaign-run end-date="2025-05-01" start-date="2025-05-15"
    tracking="true"/>
  ...
</dlg:campaign>
```

## 4.5.4 formula-text (dlg:formula-text)

The `dlg:formula-text` element defines the rule logic for a priority rule in a campaign.

The character data of the element contains the rule logic, using the same syntax as that in the Code Panel for a rule in Design Manager or Designer. For best results, use a CDATA section for the rule logic.

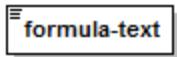
### Parents

`dlg:priority-formula`

### Attributes

None.

### Structure



### Example

```
<dlg:priority-formula>
  <dlg:formula-text><![CDATA[IF(Customer_Age >= 65) THEN
  VALUE = 4
  ELSE
  VALUE = 2
  ENDIF]]></dlg:formula-text>
</dlg:priority-formula>
```

## 4.5.5 message (dlg:message)

The `dlg:message` element represents a message Library object.

Some of the attributes of this element limit the customers for whom the message is included. Keep in mind that all of the conditions defined by those attributes apply at the same time. For example, if a rule is specified for the `usage-rule` attribute and `specified` is specified for the `jurisdiction-use` attribute, then the message is included only for customers for whom the specified rule is true and who are in an applicable jurisdiction as defined by a child `dlg:ref-many-jurisdiction` element.

### Parents

`dlg:campaign`  
`dlg:doc-message-use`  
`dlg:embedded-object`  
`dlg:object`  
`dlg:objects`  
`dlg:teaser-message`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>allow-doc-checksum</code>	Bool	Not used  <b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but <code>false</code> is always specified.	
<code>bottom-flow-margin</code>	Int	When <code>text</code> is specified for the <code>page-type</code> attribute, the minimum space, in logical units, required between the current message and the next message in the frame before the next message is forced to the next flow frame	On the <b>Basic</b> tab of the text message properties, the <b>Flow</b> box
<code>can-split-text</code>	Bool	When <code>text</code> is specified for the <code>page-type</code> attribute, specifies whether the message can split across multiple frames or must remain together in a single frame	On the <b>Basic</b> tab of the text message properties, the <b>Can split across frames</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
can-be-used	Bool	Specifies whether the message can be used in production	
default-as-background	Bool	Specifies whether objects common to all languages are placed on the default language layer	On the <b>Languages</b> tab of the properties of the containing page, the <b>Use default language as background for other languages</b> check box
design-resolution	Int	The resolution at which you want to design the page that contains the message	On the <b>Basic</b> tab of the properties of the containing page, the <b>Design resolution</b> box
flow-to-page	Ref	When <code>text</code> is specified for the <code>page-type</code> attribute, a reference to the page that will contain overflow content when <code>specific</code> is specified for the <code>flow-type</code> attribute	On the <b>Flow</b> tab of the properties of the containing page, the <b>Page</b> box
flow-type	Enum	<p>When <code>text</code> is specified for the <code>page-type</code> attribute, specifies how to handle overflow content from the message</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Discard overflow content from the page and continue processing without a warning message.</li> <li>• <code>repeat</code>—Duplicate the page that contains the message to contain the overflow content.</li> <li>• <code>specific</code>—Use the page specified for the <code>flow-to-page</code> attribute to contain the overflow content.</li> <li>• <code>warning</code>—Discard overflow content but continue processing with a warning message.</li> <li>• <code>error</code>—Discard overflow content and stop processing with an error message.</li> </ul>	On the <b>Flow</b> tab of the properties of the containing page, the <b>Destination of overflow from this page</b> list
hyperlink	Text	When <code>static</code> is specified for the <code>link-type</code> attribute, the destination URL of the link	On the <b>Hyperlink Properties</b> dialog box for the object, the <b>Static link</b> list and box
hyperlink-new-window	Bool	When a URL is specified for the <code>hyperlink</code> attribute, specifies whether the link opens in a new window	On the <b>Hyperlink Properties</b> dialog box for the object, the <b>Open in new window</b> check box
internet	Bool	Deprecated. Previously specified whether the message was a clickable link in electronic output. Now use the <code>link-type</code> attribute.	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>jurisdiction-use</code>	Enum	<p>Specifies how jurisdictional effectivity applies to the message</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>all</code>—Use the effectivity dates defined for the object for all jurisdictions.</li> <li><code>specified</code>—Include the message for the jurisdictional effectivity dates specified by the <code>dlg:ref-many-jurisdiction</code> element.</li> <li><code>except</code>—Exclude the message for the jurisdictional effectivity dates specified by the <code>dlg:ref-many-jurisdiction</code> element.</li> </ul>	On the <b>Regulatory</b> tab of the message properties, the <b>Enable jurisdictional effectivity</b> list
<code>link-type</code>	Enum	<p>When <code>text</code>, <code>graphic</code>, or <code>both</code> is specified for the <code>page-type</code> attribute, specifies whether the object links to a URL and whether the URL is static or provided by a variable</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>none</code>—The object does not link to a URL.</li> <li><code>static</code>—The object links to the URL specified for the <code>hyperlink</code> attribute.</li> <li><code>dynamic</code>—The object links to the URL provided by the variable referenced by the <code>variable-hyperlink</code> attribute.</li> </ul>	On the <b>Basic</b> tab of the message properties, the <b>Link to URL (when included in electronic output)</b> list
<code>message-template</code>	Ref	When <code>graphic</code> or <code>both</code> is specified for the <code>page-type</code> attribute, a reference to the message template associated with the message	On the <b>Basic</b> tab of the graphic or graphic/insert message properties, the <b>Template</b> box
<code>message-type</code>	Ref	When <code>text</code> is specified for the <code>page-type</code> attribute, a reference to the message type associated with the message	On the <b>Basic</b> tab of the text message properties, the <b>Message type</b> box
<code>meta-order</code>	Int	Not used	
<code>meta-props-alternate-text</code>	Text	The text that an accessibility tool reads to represent the object when <code>read-alternate-text</code> is specified for the <code>meta-props-options</code> attribute	On the <b>Accessibility</b> tab of the message properties, the <b>Alternate text</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-language	Enum	<p>The language used when the <code>meta-props-options</code> attribute is set to <code>read-alternate-text</code> or <code>read-object-text</code>. If this attribute is omitted and no other parent object has a language, the default customer language is used. If this attribute is omitted and a parent object has a language, the language specified on the parent object is inherited.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>default</code>—The default customer language</li> <li>• <code>amharic</code>—Amharic</li> <li>• <code>arabic</code>—Arabic</li> <li>• <code>armenian</code>—Armenian</li> <li>• <code>bengali</code>—Bengali</li> <li>• <code>catalan</code>—Catalan</li> <li>• <code>cebuano</code>—Cebuano</li> <li>• <code>chinese</code>—Chinese (PRC)</li> <li>• <code>chinese-tw</code>—Chinese (Taiwan)</li> <li>• <code>chinese-hk</code>—Chinese (Hong Kong SAR)</li> <li>• <code>chinese-sg</code>—Chinese (Singapore)</li> <li>• <code>czech</code>—Czech</li> <li>• <code>danish</code>—Danish</li> <li>• <code>dutch</code>—Dutch</li> <li>• <code>english-us</code>—English (American)</li> <li>• <code>english-au</code>—English (Australian)</li> <li>• <code>english-uk</code>—English (British)</li> <li>• <code>farsi</code>—Farsi (Persian)</li> <li>• <code>finnish</code>—Finnish</li> <li>• <code>french</code>—French</li> <li>• <code>french-creole</code>—French Creole</li> <li>• <code>french-ca</code>—French (Canadian)</li> <li>• <code>german</code>—German</li> <li>• <code>gujarati</code>—Gujarati</li> <li>• <code>hawaiian</code>—Hawaiian</li> <li>• <code>hindi</code>—Hindi</li> <li>• <code>hmong</code>—Hmong</li> </ul>	On the <b>Accessibility</b> tab of the message properties, the <b>Accessibility language</b> list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• hungarian—Hungarian</li> <li>• igbo—Igbo</li> <li>• ilokano—Ilokano</li> <li>• italian—Italian</li> <li>• japanese—Japanese</li> <li>• khmer—Khmer</li> <li>• korean—Korean</li> <li>• kru—Kru</li> <li>• lao—Lao</li> <li>• marshallese—Marshallese</li> <li>• navajo—Navajo</li> <li>• nepali—Nepali</li> <li>• norway—Norwegian</li> <li>• norway-bokmal—Norwegian (Bokmål)</li> <li>• newnorway—Norwegian (Nynorsk)</li> <li>• oromo—Oromo</li> <li>• pohnpeian—Pohnpeian</li> <li>• polish—Polish</li> <li>• portug—Portuguese</li> <li>• brazil—Portuguese (Brazilian)</li> <li>• punjabi—Punjabi</li> <li>• romanian—Romanian</li> <li>• russian—Russian</li> <li>• samoan—Samoan</li> <li>• spanish—Spanish</li> <li>• swedish—Swedish</li> <li>• tagalog—Tagalog</li> <li>• thai—Thai</li> <li>• tongan—Tongan</li> <li>• turkish—Turkish</li> <li>• ukranian—Ukrainian</li> <li>• urdu—Urdu</li> <li>• vietnamese—Vietnamese</li> <li>• yoruba—Yoruba</li> </ul>	

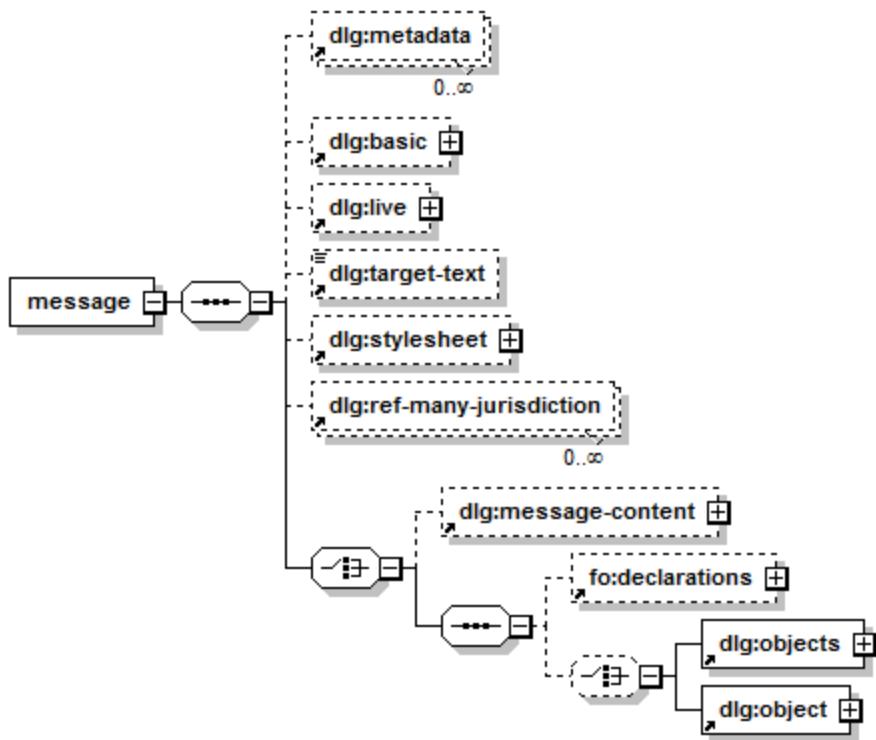
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-options	Enum	<p>Specifies whether object text or alternate text is read by accessibility tools</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• do-not-read—Do not read object text or alternate text for this object or for any of its child objects.</li> <li>• read-alternate-text—Read the alternate text specified for the meta-props-alternate-text attribute.</li> <li>• read-object-text—Read the text that is associated with a textual object.</li> </ul>	On the <b>Accessibility</b> tab of the message properties, the <b>Read options</b> list
meta-props-order	Int	The numerical order in which you want the text to be read by accessibility tools when the meta-props-option attribute is set to <code>read-alternate-text</code> or <code>read-object-text</code>	On the <b>Accessibility</b> tab of the message properties, the <b>Read order</b> box
page-duplex	Bool	Not used	
page-orientation	Enum	Not used	
page-placement	Enum	Not used	<p><b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but any is always specified.</p>
page-template	Ref	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
page-type	Enum	<p>The type of message</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>text</b>—The message is a text message.</li> <li>• <b>graphic</b>—The message is a graphic message.</li> <li>• <b>insert</b>—The message is an insert message.</li> <li>• <b>both</b>—The message is a graphic/insert message.</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <b>form</b></li> <li>• <b>msg-analysis</b></li> <li>• <b>multipleup</b></li> <li>• <b>page</b></li> <li>• <b>paragraph</b></li> </ul>	In the second step of the <b>New Message</b> dialog box when creating a new message, the <b>Type of message</b> list
paper-type	Ref	Not used	<p><b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but PaperType   0   is always specified.</p>
preprint-weight	Text	When <b>static</b> is specified for the <b>weight-selection-type</b> attribute, the weight, in ounces or grams, of the insert. The appropriate units must be specified.	On the <b>Basic</b> tab of the insert or graphic/insert message properties, the <b>Weight</b> box
renumber-text	Bool	When <b>text</b> is specified for the <b>page-type</b> attribute, specifies whether numbering in the message is continued from the previous message	On the <b>Basic</b> tab of the text message properties, the <b>Renumber this text when placed in frame</b> check box
schemaVersion	Int	The schema version for this DXF document	
send-default	Bool	When <b>text</b> , <b>graphic</b> , or <b>both</b> is specified for the <b>page-type</b> attribute, specifies whether to use the default language for a customer when the 'SYS_LanguageCustomer' variable is not defined	On the <b>Content</b> tab of the text, graphic, or graphic/insert message properties, the <b>Send default language if customer language does not exist</b> check box
size	Coord	When <b>insert</b> or <b>both</b> is specified for the <b>page-type</b> attribute, the size of the insert	On the <b>Basic</b> tab of the insert or graphic/insert message properties, the <b>Width</b> and <b>Height</b> boxes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
stylesheet	Ref	A reference to the default style sheet ( <code>stylesheet (dlg:stylesheet)</code> ) to use for the message	In Designer, the <b>Select Style Sheet</b> dialog box for the message
top-flow-margin	Int	The minimum space, in logical units, required between the current message and the previous message in the frame before the current message is forced to the next flow frame	
track-begin	Date	The date on which tracking of the message begins	In the <b>Period</b> dialog box, accessed from the <b>Date Range</b> box on the <b>Targeting</b> tab of the message properties, the <b>From</b> boxes and list
track-end	Date	The date on which tracking of the message ends	In the <b>Period</b> dialog box, accessed from the <b>Date Range</b> box on the <b>Targeting</b> tab of the message properties, the <b>To</b> boxes and list
tracking-level	Enum	<p>The type of information to track for the message</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—Do not track the message.</li> <li>• <b>summary</b>—Track a summary of information about the message, but do not track information about the customers who receive the message.</li> <li>• <b>customer</b>—Track a summary of information about the message and track information about each of the customers who receives the message.</li> </ul>	On the <b>Targeting</b> tab of the message properties, the <b>Customer</b> list
type	Text	Not used	
url	Text	Deprecated. Previously specified the static URL to which you wanted the message to link. Now use <b>hyperlink</b> .	
usage-rule	Ref	A reference to the rule that determines whether the message is included for a customer	On the <b>Targeting</b> tab of the message properties, the <b>Rule</b> box
user-identifier	Text	The identifier used in the print stream to specify actions to be performed by post-processing equipment when encountering the message	On the <b>Basic</b> tab of the message properties, the <b>External message identifier</b>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
variable-hyperlink	Ref	When <code>variable</code> is specified for the <code>link-type</code> attribute, a reference to the variable that provides the destination URL for the link	On the <b>Basic</b> tab of the text, graphic, or graphic/insert message properties, the <b>Link to URL (when included in electronic output)</b> variable box
version	Int	The version number of the message	In the <b>Administration</b> dialog box for the object, the <b>Version</b> box; or, in the history view for the object, the <b>Version</b> column
weight-selection-type	Enum	<p>When <code>insert</code> or <code>both</code> is specified for the <code>page-type</code> attribute, specifies how the weight of the insert is defined</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>static</code>—The weight of the insert is specified by the <code>preprint-weight</code> attribute.</li> <li>• <code>variable-oz</code>—The weight of the insert is specified, in ounces, by the variable referenced by the <code>weight-variable</code> attribute.</li> <li>• <code>variable-grams</code>—The weight of the insert is specified, in grams, by the variable referenced by the <code>weight-variable</code> attribute.</li> </ul>	On the <b>Basic</b> tab of the insert or graphic/insert message properties, the <b>Weight selection method</b> list
weight-variable	Ref	When <code>variable-oz</code> or <code>variable-grams</code> is specified for the <code>weight-selection-type</code> attribute, a reference to the variable that specifies the weight of the insert	On the <b>Basic</b> tab of the insert or graphic/insert message properties, the <b>Weight</b> variable box
widow-orphan	Int	When <code>true</code> is specified for the <code>can-split-text</code> attribute, the number of lines of text that must be able to appear before and after a split in order for the message to be split	On the <b>Basic</b> tab of the text message properties, the <b>Widow/orphan control</b> box
xmlns:dlg	Text	The URI for the Exstream namespace	
xmlns:dxf	Text	The URI for the DXF namespace	
xmlns:fo	Text	The URI for the XSL-FO namespace	

## Structure



## Example

```
<dlg:message xmlns:dlg="http://www.hplexstream.com/2009/XSL/HPEXstream"
allow-doc-checksum="false" bottom-flow-margin="315" can-be-used=
"true" can-split-text="false" default-as-background="true"
design-resolution="300" flow-to-page="Page|0|" flow-type="none"
internet="false" jurisdiction-use="all" link-type="none"
message-template="MessageTemplate|0|" message-type=
"MessageType|2|Whitespace Message" meta-props-language="default"
meta-props-options="read-object-text" meta-props-order="0" page-duplex
="false" page-orientation="portrait" page-placement="any"
page-template="PageTemplate|0|" page-type="text" paper-type=
"PaperType|0|" renumber-text="false" schemaVersion="2.0" send-default=
"true" size="8500.00 460.00" stylesheet="StyleSheet|0|"
top-flow-margin="0" track-begin="" track-end="" tracking-level="none"
type="" url=" " usage-rule="UsageRule|0|" user-identifier=""
variable-hyperlink="Variable|0|" widow-orphan="2" xmlns:dxf=
"http://www.hplexstream.com/2009/XSL/DXF" xmlns:fo=
"http://www.w3.org/1999/XSL/Format">
  <dlg:basic folder="Folder|2|Marketing" oid="13">
    <dlg:name>TXT Trivia Giveaway</dlg:name>
  </dlg:basic>
  <dlg:message-content xmlns:fo=
"http://www.hplexstream.com/2009/XSL/DXF">
    <fo:declarations>
      ...
    </fo:declarations>
    <dlg:objects>
      ...
    </dlg:objects>
  </dlg:message-content>
</dlg:message>
```

## 4.5.6 message-content (dlg:message-content)

The `dlg:message-content` element contains the objects, such as text or images, that make up a message or paragraph.

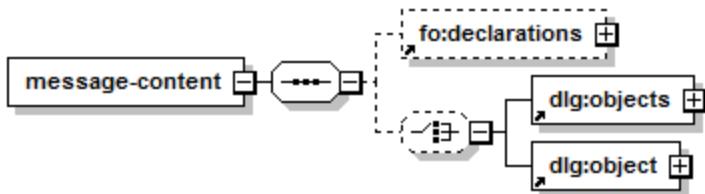
### Parents

`dlg:message`  
`dlg:paragraph`

### Attribute

Attribute	Data type	Description
<code>schemaVersion</code>	Int	The schema version for this DXF document

### Structure



## Example

```
<dlg:message ...>
  <dlg:basic folder="Folder|2|Marketing" oid="13">
    <dlg:name>TXT Trivia Giveaway</dlg:name>
  </dlg:basic>
  <dlg:message-content xmlns:fo="http://www.hplexstream.com/2009/XSL/DXF">
    <fo:declarations>
      <dlg:tab-ruler .../>
    </fo:declarations>
    <dlg:objects>
      <dlg:text ...>
        <dlg:rect .../>
        <fo:flow ...>
          <fo:block ...>
            <fo:inline ...>This is text in a message.</fo:inline>
          </fo:block>
        </fo:flow>
      </dlg:text>
    </dlg:objects>
  </dlg:message-content>
</dlg:message>
```

## 4.5.7 message-use (dlg:message-use)

The `dlg:message-use` element represents a reference to an existing message in the Library.

### Parents

`dlg:campaign`  
`dlg:doc-message-use`  
`dlg:teaser-message`

### Attribute

Attribute	Data type	Description
<code>message</code>	Ref	A reference to an existing message in the Library

### Structure

`message-use`

### Example

```
<dlg:doc-message-use ...>
  ...
  <dlg:message-use message="Message|13|TXT Trivia Giveaway" />
</dlg:doc-message-use>
```

## 4.5.8 priority-formula (dlg:priority-formula)

When rules is specified for the priority-type attribute of the parent `dlg:campaign`, the `dlg:priority-formula` element contains the priority rule that determines the priority of the campaign for each customer (using a `dlg:formula-text` element to define the rule logic).

### Parents

`dlg:campaign`

### Attributes

None.

### Structure



### Example

```
<dlg:priority-formula>
  <dlg:formula-text><![CDATA[ IF(Customer_Age >= 65) THEN
    VALUE = 4
  ELSE
    VALUE = 2
  ENDIF]]></dlg:formula-text>
</dlg:priority-formula>
```

## 4.5.9 ref-many-jurisdiction (dlg:ref-many-jurisdiction)

The `dlg:ref-many-jurisdiction` element specifies the jurisdictional effectiveness dates for the parent document, message, or section.

### Parents

`dlg:document`  
`dlg:message`  
`dlg:section`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
approved	Date	The date on which the jurisdictional effectiveness entry was last modified	In the <b>Jurisdiction Version</b> dialog box (accessed by adding or editing an item in the list on the <b>Regulatory</b> tab of the object properties), the <b>Date</b> box
approver	Text	The user who last modified the jurisdictional effectiveness entry	In the <b>Jurisdiction Version</b> dialog box (accessed by adding or editing an item in the list on the <b>Regulatory</b> tab of the object properties), the <b>Modified by</b> box
approver-oi	Int	The internal ID of the user who last modified the jurisdictional effectiveness entry	
effective	Date	The date on which the document, message, or section becomes effective for the jurisdiction referenced by the <code>jurisdiction</code> attribute	In the <b>Jurisdiction Version</b> dialog box (accessed by adding or editing an item in the list on the <b>Regulatory</b> tab of the object properties), the <b>Effective date</b> boxes and drop-down list
expires	Date	The date on which the document, message, or section expires for the jurisdiction referenced by the <code>jurisdiction</code> attribute	In the <b>Jurisdiction Version</b> dialog box (accessed by adding or editing an item in the list on the <b>Regulatory</b> tab of the object properties), the <b>Expires</b> boxes and drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
jurisdiction	Ref	A reference to the jurisdiction in the Library to which the dates specified for the <code>effective</code> and <code>expires</code> attributes apply	In the <b>Jurisdiction Version</b> dialog box (accessed by adding or editing an item in the list on the <b>Regulatory</b> tab of the object properties), the <b>Jurisdiction</b> drop-down list

## Structure

**ref-many-jurisdiction**

## Example

```
<dlg:message ...>
  <dlg:basic folder="Folder|2000000000|Exstream" oid="40">
    <dlg:name>Test text message</dlg:name>
  </dlg:basic>
  <dlg:ref-many-jurisdiction approved="2013-04-05T14:42:50" approver=
    "admin" approver-oi="1" effective="2025-01-01" expires="2025-12-31"
    jurisdiction="Jurisdiction|1|Test Jurisdiction 1"/>
  <dlg:ref-many-jurisdiction approved="2013-04-05T14:43:09" approver=
    "admin" approver-oi="1" effective="2020-01-01" expires="2020-12-31"
    jurisdiction="Jurisdiction|2|Test Jurisdiction 2"/>
  <dlg:message-content xmlns:fo=
    "http://www.hplexstream.com/2009/XSL/DXF">
    ...
  </dlg:message-content>
</dlg:message>
```

## 4.5.10 teaser-message (dlg:teaser-message)

The `dlg:teaser-message` element represents the teaser message used by a campaign.

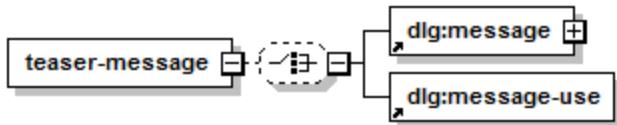
### Parents

`dlg:campaign`

### Attributes

None.

### Structure



### Example

```
<dlg:campaign ...>
...
<dlg:teaser-message>
    <dlg:message ...>
        <dlg:basic folder="Folder|2|Marketing" oid="27">
            <dlg:name>Sample Teaser Message</dlg:name>
        </dlg:basic>
        <dlg:message-content xmlns:fo=
            "http://www.hplexstream.com/2009/XSL/DXF">
            ...
        </dlg:message-content>
    </dlg:message>
</dlg:teaser-message>
...
</dlg:campaign>
```

## 4.6 Variable Elements

Variable elements represent variable objects and their properties.

For more information about using variables in an application, see *Using Data to Drive an Application* in the Exstream Design and Production documentation.

This section contains the following elements:

- “[default-value \(dlg:default-value\)](#)” on the next page
- “[dxf-text \(dlg:dxf-text\)](#)” on page 553
- “[lookup-string \(dlg:lookup-string\)](#)” on page 555
- “[variable \(dlg:variable\)](#)” on page 557
- “[variable \(dxf:variable\)](#)” on page 578
- “[variables \(dlg:variables\)](#)” on page 583
- “[variable-use \(dlg:variable-use\)](#)” on page 584

## 4.6.1 default-value (dlg:default-value)

The `dlg:default-value` element represents the default value of a variable, optionally for a specific language. When `false` is specified for the `language-dependent` attribute of the parent `dlg:variable` element, only one `dlg:default-value` can be included, and `Language|0|` should be specified for the `language` attribute. When `true` is specified for the `language-dependent` attribute of the parent `dlg:variable` element, a `dlg:default-value` can be included for each language, along with the default language.

**Note:** Importing variable-related elements is supported only at run time. This element is ignored in DXF imported at design time.

### Parents

`dlg:variable`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>language</code>	Ref	A reference to the language object in the Library to which the default value specified for the <code>value</code> attribute applies. To specify the default language, specify <code>Language 0 </code> for this attribute.	On the <b>Values</b> tab of the variable properties, the <b>Set initial values for each language</b> drop-down list
<code>value</code>	Text	The default value of the variable for the language referenced by the <code>language</code> attribute	On the <b>Values</b> tab of the variable properties, the <b>Initial value</b> box

### Structure

`default-value`

### Example

```
<dlg:default-value language="Language|0|" value="This is the  
initial value."/>
```

## 4.6.2 dxf-text (dlg:dxf-text)

The `dlg:dxf-text` element contains formatted text in DXF format (using an `fo:flow` element). The `dlg:dxf-text` element is used only when using a variable to import formatted text at run time.

**Note:** Importing variable-related elements is supported only at run time. This element is ignored in DXF imported at design time.

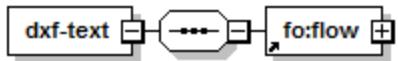
### Parents

None; `dlg:dxf-text` is always a root element.

### Attribute

Attribute	Data type	Description
<code>schemaVersion</code>	Int	The schema version for this DXF document

### Structure



## Example

```
<dlg:dxftext>
  <fo:flow height="755.00pt" margin-bottom="0.00pt"
    margin-left="0.00pt" margin-right="0.00pt" margin-top="0.00pt"
    width="570.00pt">
    <fo:block line-height="10.08pt" space-before="0.00pt"
      start-indent="0.72pt" text-align="justify">
      <dlg:tab-ruler id="1" list-type="none">
        <dlg:tab-stop tab-align="left" tab-char="0"
          tab-indent="36.00pt" />
        <dlg:tab-stop tab-align="left" tab-char="0"
          tab-indent="100.00pt" />
        <dlg:tab-stop tab-align="left" tab-char="0"
          tab-indent="144.00pt" />
      </dlg:tab-ruler>
      <fo:inline font-family="Arial" font-size="9.00pt"
        text-decoration="underline">OWNERSHIP OF PROPERTY:
      </fo:inline>
      <fo:inline font-family="Arial" font-size="9.00pt">Borrower
        represents that the Property is owned by Borrower free and
        clear of all liens and encumbrances except those of which
        Borrower has informed Lender in writing. Prior to any
        default, Borrower may keep and use the Property at
        Borrower's own risk, subject to the provisions of the
        Uniform Commercial Code.</fo:inline>
    </fo:block>
    <fo:block line-height="10.08pt" space-before="5.04pt"
      start-indent="0.72pt" text-align="left">
      <fo:inline font-family="Arial" font-size="9.00pt"
        text-decoration="underline">USE OF PROPERTY: </fo:inline>
      <fo:inline font-family="Arial" font-size="9.00pt">Borrower
        will not sell, lease, encumber, or otherwise dispose of the
        Property without Lender's prior written consent. Borrower
        will keep the Property at Borrower's address (as shown on
        page 1) unless Lender has granted permission in writing for
        the Property to be located elsewhere. The Property
        will be used only in the state in which Borrower lives
        unless the Property is a motor vehicle, in which case it
        will be used outside the state only in the course of
        Borrower's normal use of the Property.</fo:inline>
    </fo:block>
  </fo:flow>
</dlg:dxftext>
```

### 4.6.3 lookup-string (dlg:lookup-string)

The `dlg:lookup-string` element represents an entry in the static string lookup table that is used when `static` is specified for the `lookup-type` attribute of the parent `dlg:variable` element.

**Note:** Importing variable-related elements is supported only at run time. This element is ignored in DXF imported at design time.

## Parents

`dlg:variable`

## Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>abbrev</code>	Text	The identifier used for the string lookup	In the <b>Lookup String</b> dialog box (accessed from the <b>String Lookup</b> tab of the variable properties), the <b>Identifier</b> box
<code>language</code>	Ref	A reference to the language object in the Library to which the lookup values apply. To specify the default language, specify <code>Language   0  </code> for this attribute.	
<code>string-value</code>	Text	The value that replaces the identifier during string lookup	In the <b>Lookup String</b> dialog box (accessed from the <b>String Lookup</b> tab of the variable properties), the <b>Value</b> box

## Structure

`lookup-string`

## Example

```
<dlg:lookup-string abbrev="KY" language="Language|0|"  
string-value="Kentucky"/>  
<dlg:lookup-string abbrev="US" language="Language|0|"  
string-value="United States"/>
```

## 4.6.4 variable (dlg:variable)

The `dlg:variable` element represents a variable.

**Note:** Importing variable-related elements is supported only at run time. This element is ignored in DXF imported at design time.

To specify a placeholder variable, specify `placeholder` for the `data-type` attribute, and use the applicable attributes that begin with `import-` as well as the `production-placeholder-connector` and `test-placeholder-connector` attributes to configure the placeholder settings.

For more information about using placeholder variables to import content, see *Importing External Content* in the Exstream Design and Production documentation.

To configure a variable for use with Live documents, use the applicable attributes that begin with `live-` and the appropriate setting for the `varuse-substitution-time` attribute.

For more information about using variables with Live documents, see *Designing for LiveEditor* in the Exstream Design and Production documentation.

### Parents

`dlg:variables`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>application</code>	Ref	Not used	
<code>array-max</code>	Int	When <code>static</code> is specified for the <code>array-type</code> attribute, the number of elements in the array	On the <b>Basic</b> tab of the variable properties, the box beside the <b>Array</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
array-reset	Enum	<p>When any value except <code>counter</code> is specified for the <code>var-calc-method</code> attribute, specifies the time within the engine run at which a variable reinitializes or a growing array variable resets to zero elements</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>auto</code>—The variable is reset before each customer, or if the variable is mapped to a section-based data file, the engine resets the value before it reads any sections.</li> <li>• <code>customer</code>—The variable is reset only before each customer is read, regardless of section-based data.</li> <li>• <code>none</code>—The variable is reset only at the beginning of each engine run.</li> <li>• <code>section-name</code>—The variable is reset before the engine reads the section specified for the <code>reset-name</code> attribute.</li> <li>• <code>all-sections</code>—The variable is reset before each section.</li> </ul>	On the <b>Basic</b> tab of the variable properties, the <b>Reset</b> drop-down list
array-type	Enum	<p>When <code>true</code> is specified for the <code>multi-valued</code> attribute, specifies whether the array variable is static or growing</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>static</code>—The array has a fixed number of values per customer, which is specified for the <code>array-max</code> attribute.</li> <li>• <code>growing</code>—The array grows to accommodate a varying number of values for each customer.</li> </ul>	On the <b>Basic</b> tab of the variable properties, the <b>Array</b> drop-down list
auto-lookup	Bool	Specifies whether codes and abbreviations are replaced with full strings during the engine run. The replacement is performed using a lookup table or an array variable, depending on the value specified for the <code>lookup-type</code> attribute.	On the <b>String Lookup</b> tab of the variable properties, the <b>Automatically convert to string values from</b> check box
can-set-system-var	Bool	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
code-trace-level	Enum	<p>When <code>formula</code> is specified for the <code>var-calc-method</code> attribute, specifies what information, if any, is written to the debug file during execution of the formula when running a code trace</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Do not write information to the debug file during execution of the rule.</li> <li>• <code>sourceline</code>—Write each code statement during execution of the rule to the debug file.</li> <li>• <code>assigned</code>—Write each code statement during execution of the rule to the debug file, along with the names of variables as they are used.</li> <li>• <code>all</code>—Write each code statement during execution of the rule to the debug file, along with the values of variables as they are used.</li> </ul>	On the <b>Values</b> tab of the variable properties, the <b>Code trace</b> drop-down list
compute-section-name	Text	When <code>named-section</code> is specified for the <code>compute-time</code> attribute, the name of the data section that determines when the engine computes the formula. The formula is computed after the engine reads this section.	On the <b>Values</b> tab of the variable properties, the box below the <b>Compute time</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
compute-time	Enum	<p>When <code>formula</code> or <code>counter</code> is specified for the <code>var-calc-method</code> attribute, the time at which the engine computes the formula</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>as-needed</code>—Compute the variable when it is referenced in other objects. Note that the <code>as-needed</code> setting should not be specified for variables on late compose objects. Also, if you specify <code>as-needed</code>, the formula cannot contain references to itself.</li> <li>• <code>subaccount</code>—Compute the variable for each section as it is encountered in the data.</li> <li>• <code>complete</code>—Compute the variable after processing the last customer.</li> <li>• <code>document</code>—Compute the variable for each customer, before any section data.</li> <li>• <code>initialize</code>—Compute the variable before processing the first customer.</li> <li>• <code>named-section</code>—Compute the variable after the engine reads the named section specified for the <code>compute-section-name</code> attribute.</li> <li>• <code>data-aggregation</code>—Compute the variable after the data aggregation event.</li> <li>• <code>do-not-compute</code>—Do not compute the variable. Specify this setting if the variable is computed only in a post-sort processing run.</li> <li>• <code>page</code>—Compute the variable for each page. When this setting is specified, <code>page</code> must also be specified for the <code>compute-time-post-sort</code> attribute.</li> <li>• <code>post-customer</code>—Compute the variable for each customer, after all section data.</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <code>init-post-sort</code></li> <li>• <code>row</code></li> </ul>	<p>On the <b>Values</b> tab of the variable properties, the <b>Compute time</b> drop-down list</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>Note:</b> XML node settings are not supported in DXF files.</p> <p><b>Compute time</b> for XML nodes does not have a corresponding attribute in the DXF elements.</p> </div>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
compute-time-post-sort	Enum	<p>When <code>formula</code> or <code>counter</code> is specified for the <code>var-calc-method</code> attribute, and when you are creating a formula that computes during a post-sort processing run, the time at which the engine computes the formula during the post-sort processing run.</p> <p>When <code>page</code> is specified for the <code>compute-time</code> attribute, <code>page</code> must also be specified for this attribute.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>as-needed</code>—Compute the variable when it is referenced in other objects. Note that the <code>as-needed</code> setting should not be specified for variables on late compose objects. Also, if you specify <code>as-needed</code>, the formula cannot contain references to itself.</li> <li>• <code>complete</code>—Compute the variable after processing the last customer.</li> <li>• <code>initialize</code>—Compute the variable before processing the first customer.</li> <li>• <code>do-not-compute</code>—Do not compute the variable. Specify this setting if the variable is computed only in a post-sort processing run.</li> <li>• <code>post-customer</code>—Compute the variable for each customer, after all section data.</li> <li>• <code>page</code>—Compute the variable for each page. This setting is valid only when <code>page</code> is specified for the <code>compute-time</code> attribute.</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <code>data-aggregation</code></li> <li>• <code>document</code></li> <li>• <code>init-post-sort</code></li> <li>• <code>named-section</code></li> <li>• <code>row</code></li> <li>• <code>subaccount</code></li> </ul>	<p>On the <b>Values</b> tab of the variable properties, the <b>Post-sort compute time</b> drop-down list</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>Note:</b> XML node settings are not supported in DXF files.</p> <p><b>Compute time</b> for XML nodes does not have a corresponding attribute in the DXF elements.</p> </div>
const	Bool	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>data-type</code>	Enum	<p>The type of data that the variable contains</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>boolean</code>—A value of <code>true</code> or <code>false</code></li> <li>• <code>currency</code>—A monetary amount with units and language-dependent formatting</li> <li>• <code>date</code>—A date, time, or both, with language-dependent formatting</li> <li>• <code>float</code>—A floating-point numeric value</li> <li>• <code>integer</code>—An integer value</li> <li>• <code>placeholder</code>—Content from an external source that is accessed during an engine run</li> <li>• <code>string</code>—A text value</li> <li>• <code>tagged-text</code>—Text that includes formatting tags</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <code>none</code></li> <li>• <code>unknown</code></li> </ul>	On the <b>Basic</b> tab of the variable properties, the <b>Data type</b> drop-down list
<code>decimal</code>	Text	When a decimal format is specified for the <code>format</code> attribute, the symbol used to denote the decimal	On the <b>Output Format</b> tab of the variable properties, the <b>Decimal symbol</b> drop-down list
<code>display-string</code>	Text	The text that appears when the variable is used in Designer	On the <b>Basic</b> tab of the variable properties, the <b>Design sample</b> box
<code>file-only-ref</code>	Bool	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
format	Int	<p>The output format of the variable</p> <p>Must be one of the following values, corresponding to the listed settings:</p> <ul style="list-style-type: none"> <li>• 0—Custom format, specified for the <code>format-string</code> attribute</li> <li>• 1—Keep Blanks</li> <li>• 2—Trim Blanks</li> <li>• 3—Trim Leading Blanks</li> <li>• 4—Trim Trailing Blanks</li> <li>• 5—General Number</li> <li>• 6—Fixed Decimal</li> <li>• 7—T/F</li> <li>• 8—Y/N</li> <li>• 9—I/O</li> <li>• 10—TRUE/FALSE</li> <li>• 11—Yes/No</li> <li>• 12—Use Locale Specification</li> <li>• 13—Packed (Left to Right)</li> <li>• 14—Packed (Right to Left)</li> <li>• 15—Binary Integer</li> <li>• 16—Binary Float</li> <li>• 17—Binary Double</li> <li>• 18—Locale Currency</li> <li>• 19—Significant Decimal</li> <li>• 20—Fixed or Integer</li> <li>• 21—Lower, Keep Blanks</li> <li>• 22—Lower, Trim Blanks</li> <li>• 23—Lower, Trim Leading</li> <li>• 24—Lower, Trim Trailing</li> <li>• 25—InitCap, Keep Blanks</li> <li>• 26—InitCap, Trim Blanks</li> <li>• 27—InitCap, Trim Leading</li> <li>• 28—InitCap, Trim Trailing</li> <li>• 29—Packed (Left to Left)</li> <li>• 30—Packed (Right to Left)</li> <li>• 31—Zoned</li> <li>• 32—Alpha Upper (A, B, C)</li> </ul>	On the <b>Output Format</b> tab of the variable properties, the <b>Output format</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• 33—Alpha Lower (a, b, c)</li> <li>• 34—Roman Upper (I, II, III)</li> <li>• 35—Roman Lower (i, ii, iii)</li> <li>• 36—Text Upper (ONE, TWO)</li> <li>• 37—Text Mixed (One, Two)</li> <li>• 38—Text Lower (one, two)</li> <li>• 39—Hexadecimal String</li> <li>• 40—COBOL Signed (Trailing)</li> <li>• 41—Binary Unsigned Short</li> <li>• 42—Binary Short</li> <li>• 43—Percentage</li> <li>• 44—Percentage x 100</li> <li>• 45—Fixed Decimal with Currency</li> <li>• 46—Upper, Keep Blanks</li> <li>• 47—Upper, Trim Blanks</li> <li>• 48—Upper, Trim Leading</li> <li>• 49—Upper, Trim Trailing</li> <li>• 50—COBOL Signed (Leading)</li> <li>• 51—COBOL Sep-Leading Sign</li> <li>• 52—COBOL Separate Sign</li> <li>• 53—COBOL PHASE3 Signed</li> <li>• 54—COBOL PHASE3 Signed Trailing</li> <li>• 56—InitCap + Exceptions, Keep Blanks</li> <li>• 57—InitCap + Exceptions, Trim Blanks</li> <li>• 58—InitCap + Exceptions, Trim Leading</li> <li>• 59—InitCap + Exceptions, Trim Trailing</li> <li>• 60—Binary Byte</li> <li>• 61—Binary Unsigned Byte</li> <li>• 62—Absolute Value</li> <li>• 63—Phone Number (999) 999-9999</li> <li>• 64—Phone Number (999) 999 9999</li> <li>• 65—Phone Number 999 999-9999</li> <li>• 66—Phone Number 999 999 9999</li> <li>• 67—Exceptions Only, Keep Blanks</li> <li>• 68—Exceptions Only, Trim Blanks</li> <li>• 69—Exceptions Only, Trim Leading</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• 70—Exceptions Only, Trim Trailing</li> <li>• 71—Lower + Exceptions, Keep Blanks</li> <li>• 72—Lower + Exceptions, Trim Blanks</li> <li>• 73—Lower + Exceptions, Trim Leading</li> <li>• 74—Lower + Exceptions, Trim Trailing</li> <li>• 75—Upper + Exceptions, Keep Blanks</li> <li>• 76—Upper + Exceptions, Trim Blanks</li> <li>• 77—Upper + Exceptions, Trim Leading</li> <li>• 78—Upper + Exceptions, Trim Trailing</li> <li>• 79—Sentence, Keep Blanks</li> <li>• 80—Sentence, Trim Blanks</li> <li>• 81—Sentence, Trim Leading</li> <li>• 82—Sentence, Trim Trailing</li> <li>• 83—Sentence + Exceptions, Keep Blanks</li> <li>• 84—Sentence + Exceptions, Trim Blanks</li> <li>• 85—Sentence + Exceptions, Trim Leading</li> <li>• 86—Sentence + Exceptions, Trim Trailing</li> <li>• 87—COBOL Signed (Trailing ASCII)</li> <li>• 88—Binary 64-bit Integer</li> <li>• 89—Reverse, Keep Blanks</li> <li>• 90—Reverse, Trim Blanks</li> <li>• 91—Reverse, Trim Leading</li> <li>• 92—Reverse, Trim Trailing</li> <li>• 193—Raw Content</li> <li>• 194—Base-64 Encoded Content</li> <li>• 195—Ascii85 Encoded Content</li> <li>• 196—Fixed or Integer with Currency</li> <li>• 197—RTF Content</li> <li>• 198—Plain Text Content</li> <li>• 199—Composed XML (DXF) Content</li> <li>• 200—Placeholder Content</li> </ul>	
format-string	Text	When 0 is specified for the <code>format</code> attribute, the custom format of the variable	On the <b>Output Format</b> tab of the variable properties, the <b>Custom format string</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
format-zero	Bool	Specifies whether a variable value of 0 is replaced with the text specified for the zero-string attribute	On the <b>Output Format</b> tab of the variable properties, the <b>Replace zero</b> check box
formula	Text	When formula or counter is specified for the var-calc-method attribute, the formula logic that determines the value of the variable. The formula uses the same syntax as that shown in the Code Panel for a rule in Design Manager or Designer. For best results, use a CDATA section for the formula logic.	On the <b>Values</b> tab of the variable properties, the <b>Formula</b> box
full-name	Text	Not used	
import-has-vars	Bool	Not used	
import-keep	Int	When false is specified for the import-unique attribute, the number of files to keep in memory so they are not read for each customer	On the <b>Placeholder</b> tab of the variable properties, the <b>Maximum number of files to hold in memory</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<b>import-type</b>	Enum	<p>When <code>placeholder</code> is specified for the <code>data-type</code> attribute, the type of content that will be imported at run time</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>afpf-pseg-passthrough</code>—AFP page segment image file</li> <li>• <code>afpf-s45-passthrough</code>—AFP FS45, FS10, or FS11 IOCA image</li> <li>• <code>ascii</code>—Plain text file</li> <li>• <code>epspassthrough</code>—EPS image file</li> <li>• <code>imageresource</code>—Images from a printer resource (such as PostScript TIFF images or Metacode IMGs)</li> <li>• <code>jpegpassthrough</code>—JPEG image file</li> <li>• <code>live</code>—Text from a Live application</li> <li>• <code>overlayresource</code>—Overlays from a printer resource (such as Metacode forms (FRMs), AFP overlays, PostScript forms, and page segments)</li> <li>• <code>pdfpassthrough</code>—PDF file</li> <li>• <code>pngpassthrough</code>—PNG image file</li> <li>• <code>rtf</code>—RTF text file</li> <li>• <code>tiff-g4</code>—Black and white TIFF image file with CCITT Group4 compression, or uncompressed</li> <li>• <code>tiffpassthrough</code>—Color TIFF image file</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <code>formattedtext</code></li> <li>• <code>none</code></li> <li>• <code>pdf</code></li> <li>• <code>png</code></li> <li>• <code>taggedtext</code></li> <li>• <code>webverse</code></li> </ul>	On the <b>Placeholder</b> tab of the variable properties, the <b>Placeholder</b> drop-down list
<b>import-unique</b>	Bool	When <code>placeholder</code> is specified for the <code>data-type</code> attribute, specifies whether a different file is imported for each customer in the run	On the <b>Placeholder</b> tab of the variable properties, the <b>The file for each customer is unique</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
is-a-formula	Bool	Not used	
language-dependent	Bool	Specifies whether a separate initial value is specified for each language	On the <b>Values</b> tab of the variable properties, the <b>Set initial values for each language</b> check box
late-compose	Bool		
leading-zero	Bool		
live-caption-text	Text	The text that appears for the variable in the Outline Viewer in LiveEditor, and, when a value other than none is specified for the <b>live-selection</b> attribute, and <b>live-caption</b> is specified for the <b>selection-prompt-type</b> attribute of the <a href="#">dlg:live</a> element for the content selection group, the text that appears in the dialog box when an end user clicks the content selection group	On the <b>Interactive</b> tab of the variable properties, the left-hand <b>Live caption</b> box
live-custom-options	Int	Not used	
live-exclude-data-sheet	Bool	Not used	
live-form-mask	Text	The mask string used to specify the format of the data entry in a Live document	On the <b>Interactive</b> tab of the variable properties, the left-hand <b>Default data entry mask</b> box
live-interview	Bool	Specifies whether the variable is a Live interview variable, which is set on an interview page in a Live document and retains the same value for each customer	On the <b>Interactive</b> tab of the variable properties, the <b>Interview variable (unchanged across customers)</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
live-selection	Enum	<p>Specifies whether the variable controls a content selection group in a Live document and how many items end users can select in the group</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—The variable is not used to control a content selection group.</li> <li>• pick-0-or-1—The variable controls a content selection group, and end users are allowed to select one or zero items.</li> <li>• pick-1—The variable controls a content selection group, and end users are required to select exactly one item.</li> <li>• pick-n—The variable controls a content selection group, and end users are required to select the number of items specified for the live-select-min attribute.</li> <li>• pick-n-to-m—The variable controls a content selection group, and end users are required to select at least the number of items specified for the live-select-min attribute, and allowed to select up to the number of items specified for the live-select-max attribute.</li> </ul> <p>The following value is not used:</p> <ul style="list-style-type: none"> <li>• overlayresource</li> </ul>	On the <b>Interactive</b> tab of the variable properties, the <b>Controls Live selection group</b> drop-down list
live-select-max	Int	When pick-n-to-m is specified for the live-selection attribute, the maximum number of items that the end user is allowed to select from the content selection group	On the <b>Interactive</b> tab of the variable properties, the left-hand <b>Number of selections</b> box
live-select-min	Int	When pick-n or pick-n-to-m is specified for the live-selection attribute, the minimum number of items that the end user is required to select from the content selection group	On the <b>Interactive</b> tab of the variable properties, the right-hand <b>Number of selections</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
lookup-action	Enum	<p>When <code>true</code> is specified for the <code>auto-lookup</code> attribute, the action that occurs if an identifier is not found in the lookup table or array</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>clear</code>—The engine discards the value and continues processing.</li> <li>• <code>keep</code>—The engine retains the value and continues processing.</li> <li>• <code>clearmsg</code>—The engine discards the value, issues an engine message, and continues processing.</li> <li>• <code>keepmsg</code>—The engine retains the value, issues an engine message, and continues processing.</li> <li>• <code>clearerr</code>—The engine discards the value and stops processing.</li> <li>• <code>keeperr</code>—The engine retains the value and stops processing.</li> </ul>	On the <b>String Lookup</b> tab of the variable properties, the <b>Action if not found</b> drop-down list
lookup-key	Ref	When <code>array</code> or <code>arraysorted</code> is specified for the <code>lookup-type</code> attribute, a reference to the array variable that contains the identifiers used for the string lookup	On the <b>String Lookup</b> tab of the variable properties, the <b>Array containing match values</b> box
lookup-out	Ref	When <code>array</code> or <code>arraysorted</code> is specified for the <code>lookup-type</code> attribute, a reference to the array variable that contains the string values that replace the identifiers during the string lookup	On the <b>String Lookup</b> tab of the variable properties, the <b>Array containing new values</b> box
lookups-sorted	Bool		

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
lookup-type	Enum	<p>When <code>true</code> is specified for the <code>auto-lookup</code> attribute, the source of the lookup for string values</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>static</code>—Perform the lookup within a static lookup table defined by child <code>dlg:lookup-string</code> elements.</li> <li>• <code>array</code>—Perform the lookup using a linear search in an array variable referenced by the <code>lookup-key</code> attribute, and replace with the corresponding value from the array variable referenced by the <code>lookup-out</code> attribute.</li> <li>• <code>arraysorted</code>—Perform the lookup in a sorted array variable referenced by the <code>lookup-key</code> attribute, and replace with the corresponding value from the array variable referenced by the <code>lookup-out</code> attribute.</li> </ul>	On the <b>String Lookup</b> tab of the variable properties, the <b>Automatically convert to string values from</b> drop-down list
multi-valued	Bool	Specifies whether the variable is an array	On the <b>Basic</b> tab of the variable properties, the <b>Array</b> check box
neg-format	Enum	<p>When a numeric format is specified for the <code>format</code> attribute, the format of negative numbers</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>minus—xxx.xxx</code></li> <li>• <code>minussp— xxx.xxx</code></li> <li>• <code>minusafter—xxx.xxx-</code></li> <li>• <code>minusaftersp—xxx.xxx -</code></li> <li>• <code>paren—(xxx.xxx)</code></li> <li>• <code>parenspace—( xxx.xxx )</code></li> <li>• <code>brace—&lt;xxx.xxx&gt;</code></li> <li>• <code>braceasp—&lt; xxx.xxx &gt;</code></li> <li>• <code>c-rafter—xxx.xxx CR</code></li> </ul>	On the <b>Output Format</b> tab of the variable properties, the <b>Negative format</b> drop-down list
no-break	Bool	Specifies whether the variable value is prevented from splitting across multiple lines when it is substituted into a paragraph	On the <b>Output Format</b> tab of the variable properties, the <b>Do not break within variable</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
num-digits	Int	When a fixed decimal format is specified for the <code>format</code> attribute, the number of digits that appear after the decimal point	On the <b>Output Format</b> tab of the variable properties, the <b>Number of digits</b> box
pdf-page-num	Text		
production-placeholder-connector	Ref	<p>When <code>placeholder</code> is specified for the <code>data-type</code> attribute, a reference to the connector you want to assign to the variable during production runs</p> <p>For more information about assigning a connector to a placeholder variable, see <i>Configuring Connectors</i> in the Exstream Design and Production documentation.</p>	On the <b>Placeholder</b> tab of the variable properties, the <b>Production Import connector</b> box
reset-name	Text	When <code>section-name</code> is specified for the <code>array-reset</code> attribute, the name of the data section that determines when the variable is reset. The variable is reset after the engine reads this section.	On the <b>Basic</b> tab of the variable properties, the <b>Named section</b> box
show-to-users	Enum	<p>Specifies when the variable is available for use</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—The variable is unavailable for use in rules or design objects and is not included in variable lists.</li> <li>• <code>personalize</code>—The variable can be used only for personalizing design objects directly in a design. It cannot be used in rules.</li> <li>• <code>rule</code>—The variable can be used only to create rules on design objects. It cannot be used directly in a design.</li> <li>• <code>any</code>—The variable can be used for both personalization and in rules.</li> </ul>	On the <b>Basic</b> tab of the variable properties, the <b>Design use</b> drop-down list
test-placeholder-connector	Ref	<p>When <code>placeholder</code> is specified for the <code>data-type</code> attribute, a reference to the connector you want to assign to the variable during test runs</p> <p>For more information about assigning a connector to a placeholder variable, see <i>Configuring Connectors</i> in the Exstream Design and Production documentation.</p>	On the <b>Placeholder</b> tab of the variable properties, the <b>Test Import connector</b> box

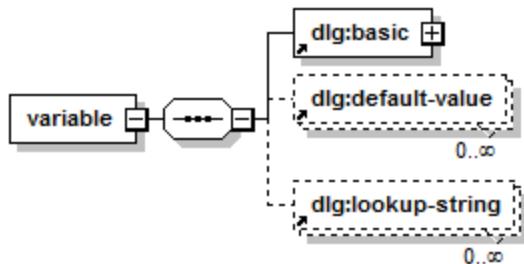
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
thousands	Text	When a numeric format is specified for the <code>format</code> attribute, the thousands separator character. If you want to omit the thousands separator, omit this attribute.	On the <b>Output Format</b> tab of the variable properties, the <b>Thousands</b> check box and box
uses-checksum-system-vars	Bool		
validate1	Text	When any value except none or function is specified for the <code>validate-type</code> attribute, the value (or minimum value of the range, when <code>value-range</code> or <code>length-range</code> is specified for the <code>validate-type</code> attribute) used to validate the variable	On the <b>Basic</b> tab of the variable properties, the left-hand <b>Valid values</b> box
validate2	Text	When <code>value-range</code> or <code>length-range</code> is specified for the <code>validate-type</code> attribute, the maximum value of the range used to validate the variable	On the <b>Basic</b> tab of the variable properties, the right-hand <b>Valid values</b> box
validate-action	Enum	<p>When any value except none is specified for the <code>validate-type</code> attribute, the action that the engine performs when a value is invalid</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>continue</code>—The engine issues a message and continues processing.</li> <li>• <code>setdefault</code>—The engine issues a message, resets the variable to its default value, and continues processing.</li> <li>• <code>error</code>—The engine issues a message and stops processing.</li> <li>• <code>skip</code>—The engine issues a message and skips the document.</li> </ul>	On the <b>Basic</b> tab of the variable properties, the <b>Action if</b> drop-down list
validate-function	Ref	When <code>function</code> is specified for the <code>validate-type</code> attribute, a reference to the function used to validate the variable. The 'SYS_ValidationVariable' system variable should be used within the function to access the data to be validated. If the function cannot be located or returns an error, the validation fails.	On the <b>Basic</b> tab of the variable properties, the <b>Validation function</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
validate-type	Enum	<p>When <code>currency</code>, <code>date</code>, <code>float</code>, <code>integer</code>, or <code>string</code> is specified for the <code>data-type</code> attribute, the validation method for the variable</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—Do not validate the variable value.</li> <li>• <code>value-range</code>—Validate that the variable value is within the range specified for the <code>validate1</code> and <code>validate2</code> attributes.</li> <li>• <code>length-range</code>—Validate that the length of the variable is within the range specified for the <code>validate1</code> and <code>validate2</code> attributes.</li> <li>• <code>eq</code>—Validate that the variable is equal to the value specified for the <code>validate1</code> attribute.</li> <li>• <code>gt</code>—Validate that the variable is greater than the value specified for the <code>validate1</code> attribute.</li> <li>• <code>gteq</code>—Validate that the variable is greater than or equal to the value specified for the <code>validate1</code> attribute.</li> <li>• <code>lt</code>—Validate that the variable is less than the value specified for the <code>validate1</code> attribute.</li> <li>• <code>lteq</code>—Validate that the variable is less than or equal to the value specified for the <code>validate1</code> attribute.</li> <li>• <code>ne</code>—Validate that the variable is not equal to the value specified for the <code>validate1</code> attribute.</li> <li>• <code>function</code>—Validate the variable using the function referenced by the <code>validate-function</code> attribute.</li> </ul>	On the <b>Basic</b> tab of the variable properties, the <b>Validation method</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
var-calc-method	Enum	<p>Specifies how the values of the variable are generated</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>constant—The value of the variable is specified by a child <code>dlg:default-value</code> element.</li> <li>formula—The value of the variable is determined by a formula specified by the <code>formula</code> attribute.</li> <li>counter—The value of the variable increments each time the value of the formula specified by the <code>formula</code> attribute changes.</li> <li>fileonly—The value of the variable is read from a data file.</li> <li>crossref—The value of the variable is the page number on which the cross-reference target that references this variable (represented in DXF by an <code>fo:cross-reference</code> element with a reference to this variable specified for the <code>variable</code> attribute) is used in the document. This value is valid only when <code>integer</code> is specified for the <code>datatype</code> attribute.</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>system</li> <li>systemtable</li> </ul>	On the <b>Basic</b> tab of the variable properties, the <b>Source</b> drop-down list
watch-level	Enum	<p>For debugging, specifies whether debug information is added to the debug file when the variable is set or changed</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>none—The variable is not watched, and no information is added to the debug file when the variable is set or changed.</li> <li>set—The variable is watched, and information is added to the debug file when the variable is set.</li> <li>changed—The variable is watched, and information is added to the debug file each time the variable changes.</li> </ul>	On the <b>Basic</b> tab of the variable properties, the <b>Watch level</b> drop-down list
web-verse-placeholder-type	Enum	Not used	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
web-verse-scope	Enum	Not used	
zero-string	Text	When true is specified for the format-zero attribute, the text that replaces a variable value of 0	On the <b>Output Format</b> tab of the variable properties, the <b>Replace zero</b> box

## Structure



## Example

```
<dlg:variable application="Application|0|" array-max="1"
array-reset="auto" array-type="growing" auto-lookup="true"
can-set-system-var="false" code-trace-level="none"
compute-section-name="" compute-time="as-needed"
compute-time-post-sort="as-needed" const="false" data-type="string"
decimal=".," display-string="Test variable value"
file-only-ref="false" format="1" format-string=""
format-zero="false" formula="" full-name="" import-has-vars="false"
import-keep="5" import-type="none" import-unique="false"
is-a-formula="false" language-dependent="false" late-compose="false"
leading-zero="true" live-caption-text="" live-custom-options="0"
live-form-mask="" live-interview="false" live-select-max="1"
live-select-min="1" live-selection="none" lookup-action="clearmsg"
lookup-key="Variable|0|" lookup-out="Variable|0|"
lookup-type="static" lookups-sorted="false" multi-valued="false"
neg-format="c-rafter" no-break="false" num-digits="2"
pdf-page-num="" production-placeholder-connector="InputFile|1|Test
connector" reset-name="" show-to-users="personalize"
test-placeholder-connector="InputFile|1|Test connector" thousands=""
uses-checksum-system-vars="false" validate-action="continue"
validate-function="Function|0|" validate-type="none" validate1=""
validate2="" var-calc-method="fileonly" watch-level="none"
zero-string="">
  <dlg:basic folder="Folder|2000000000|Exstream" oid="634">
    <dlg:name>Test_variable</dlg:name>
    <dlg:description></dlg:description>
  </dlg:basic>
  <dlg:default-value language="Language|0|" value="This is the
initial value."/>
  <dlg:lookup-string abbrev="KY" language="Language|0|"
string-value="Kentucky"/>
  <dlg:lookup-string abbrev="US" language="Language|0|"
string-value="United States"/>
</dlg:variable>
```

## 4.6.5 variable (dxf:variable)

**Deprecated.** Use [dlg:variable](#).

The dxf:variable element represents a variable object.

### Parents

[dlg:variables](#)

### Attributes

Attribute	Data type	Description
array	Bool	Specifies whether the variable is an array
default-value	Text	The default value of the variable
description	Text	The description of the variable
design	Text	The text that appears when the variable is used in Designer

Attribute	Data type	Description
format	Int	<p>The output format of the variable</p> <p>Must be one of the following values, corresponding to the listed settings:</p> <ul style="list-style-type: none"> <li>• 0—Custom format, specified for the <code>format-string</code> attribute</li> <li>• 1—Keep Blanks</li> <li>• 2—Trim Blanks</li> <li>• 3—Trim Leading Blanks</li> <li>• 4—Trim Trailing Blanks</li> <li>• 5—General Number</li> <li>• 6—Fixed Decimal</li> <li>• 7—T/F</li> <li>• 8—Y/N</li> <li>• 9—I/O</li> <li>• 10—TRUE/FALSE</li> <li>• 11—Yes/No</li> <li>• 12—Use Locale Specification</li> <li>• 13—Packed (Left to Right)</li> <li>• 14—Packed (Right to Left)</li> <li>• 15—Binary Integer</li> <li>• 16—Binary Float</li> <li>• 17—Binary Double</li> <li>• 18—Locale Currency</li> <li>• 19—Significant Decimal</li> <li>• 20—Fixed or Integer</li> <li>• 21—Lower, Keep Blanks</li> <li>• 22—Lower, Trim Blanks</li> <li>• 23—Lower, Trim Leading</li> <li>• 24—Lower, Trim Trailing</li> <li>• 25—InitCap, Keep Blanks</li> <li>• 26—InitCap, Trim Blanks</li> <li>• 27—InitCap, Trim Leading</li> <li>• 28—InitCap, Trim Trailing</li> <li>• 29—Packed (Left to Left)</li> <li>• 30—Packed (Right to Left)</li> <li>• 31—Zoned</li> <li>• 32—Alpha Upper (A, B, C)</li> <li>• 33—Alpha Lower (a, b, c)</li> </ul>

Attribute	Data type	Description
		<ul style="list-style-type: none"><li>• 34—Roman Upper (I, II, III)</li><li>• 35—Roman Lower (i, ii, iii)</li><li>• 36—Text Upper (ONE, TWO)</li><li>• 37—Text Mixed (One, Two)</li><li>• 38—Text Lower (one, two)</li><li>• 39—Hexadecimal String</li><li>• 40—COBOL Signed (Trailing)</li><li>• 41—Binary Unsigned Short</li><li>• 42—Binary Short</li><li>• 43—Percentage</li><li>• 44—Percentage x 100</li><li>• 45—Fixed Decimal with Currency</li><li>• 46—Upper, Keep Blanks</li><li>• 47—Upper, Trim Blanks</li><li>• 48—Upper, Trim Leading</li><li>• 49—Upper, Trim Trailing</li><li>• 50—COBOL Signed (Leading)</li><li>• 51—COBOL Sep-Leading Sign</li><li>• 52—COBOL Separate Sign</li><li>• 53—COBOL PHASE3 Signed</li><li>• 54—COBOL PHASE3 Signed Trailing</li><li>• 56—InitCap + Exceptions, Keep Blanks</li><li>• 57—InitCap + Exceptions, Trim Blanks</li><li>• 58—InitCap + Exceptions, Trim Leading</li><li>• 59—InitCap + Exceptions, Trim Trailing</li><li>• 60—Binary Byte</li><li>• 61—Binary Unsigned Byte</li><li>• 62—Absolute Value</li><li>• 63—Phone Number (999) 999-9999</li><li>• 64—Phone Number (999) 999 9999</li><li>• 65—Phone Number 999 999-9999</li><li>• 66—Phone Number 999 999 9999</li><li>• 67—Exceptions Only, Keep Blanks</li><li>• 68—Exceptions Only, Trim Blanks</li><li>• 69—Exceptions Only, Trim Leading</li><li>• 70—Exceptions Only, Trim Trailing</li><li>• 71—Lower + Exceptions, Keep Blanks</li><li>• 72—Lower + Exceptions, Trim Blanks</li></ul>

Attribute	Data type	Description
		<ul style="list-style-type: none"> <li>• 73—Lower + Exceptions, Trim Leading</li> <li>• 74—Lower + Exceptions, Trim Trailing</li> <li>• 75—Upper + Exceptions, Keep Blanks</li> <li>• 76—Upper + Exceptions, Trim Blanks</li> <li>• 77—Upper + Exceptions, Trim Leading</li> <li>• 78—Upper + Exceptions, Trim Trailing</li> <li>• 79—Sentence, Keep Blanks</li> <li>• 80—Sentence, Trim Blanks</li> <li>• 81—Sentence, Trim Leading</li> <li>• 82—Sentence, Trim Trailing</li> <li>• 83—Sentence + Exceptions, Keep Blanks</li> <li>• 84—Sentence + Exceptions, Trim Blanks</li> <li>• 85—Sentence + Exceptions, Trim Leading</li> <li>• 86—Sentence + Exceptions, Trim Trailing</li> <li>• 87—COBOL Signed (Trailing ASCII)</li> <li>• 88—Binary 64-bit Integer</li> <li>• 89—Reverse, Keep Blanks</li> <li>• 90—Reverse, Trim Blanks</li> <li>• 91—Reverse, Trim Leading</li> <li>• 92—Reverse, Trim Trailing</li> <li>• 193—Raw Content</li> <li>• 194—Base-64 Encoded Content</li> <li>• 195—Ascii85 Encoded Content</li> <li>• 196—Fixed or Integer with Currency</li> <li>• 197—RTF Content</li> <li>• 198—Plain Text Content</li> <li>• 199—Composed XML (DXF) Content</li> <li>• 200—Placeholder Content</li> </ul>
<code>name</code>	Text	The name of the variable
<code>oid</code>	Int	The internal object ID of the variable

Attribute	Data type	Description
type	Enum	<p>The type of data that the variable contains</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <code>boolean</code>—A value of <code>true</code> or <code>false</code></li><li>• <code>currency</code>—A monetary amount with units and language-dependent formatting</li><li>• <code>date</code>—A date, time, or both, with language-dependent formatting</li><li>• <code>float</code>—A floating-point numeric value</li><li>• <code>integer</code>—An integer value</li><li>• <code>placeholder</code>—Content from an external source that is accessed during an engine run</li><li>• <code>string</code>—A text value</li><li>• <code>tagged-text</code>—Text that includes formatting tags</li></ul>

## Structure

variable

## 4.6.6 variables (dlg:variables)

The `dlg:variables` element contains the variables used in an application (using `dlg:variable` elements).

**Note:** Importing variable-related elements is supported only at run time. This element is ignored in DXF imported at design time.

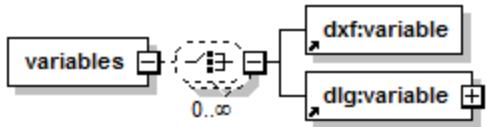
### Parents

`fo:declarations`

### Attributes

None.

### Structure



### Example

```
<dlg:variables>
  <dlg:variable ...>
    ...
  </dlg:variable>
  <dlg:variable ...>
    ...
  </dlg:variable>
</dlg:variables>
```

## 4.6.7 variable-use (dlg:variable-use)

The `dlg:variable-use` element defines the use of a variable in a design.

For more information about using a variable in a design, see *Designing Customer Communications* in the Exstream Design and Production documentation.

For more information about using a variable in a Live document, see *Designing for LiveEditor* in the Exstream Design and Production documentation.

### Parents

```
fo:basic-link  
fo:inline  
wrapper (fo:wrapper)
```

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>varuse-aggregation</code>	Enum	<p>When the variable is an array, specifies whether array elements are combined during data aggregation. When the variable is not an array, specifies whether duplicate paragraphs are removed when the variable values match during data aggregation.</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <code>none</code>—When the variable is an array, do not combine array elements during data aggregation. When the variable is not an array, do not remove duplicate paragraphs when the variable values match.</li><li>• <code>combine</code>—Combine array elements during data aggregation. The <code>combine</code> setting is valid only when the variable is an array.</li><li>• <code>must-match</code>—When the variable values match, remove duplicate paragraphs. The <code>must-match</code> setting is valid only when the variable is not an array.</li></ul>	On the <b>Variable Use</b> tab of the variable properties in Designer, the <b>Combine array elements during data aggregation</b> and <b>Must match during data aggregation</b> check boxes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>varuse-array-index</code>	Int	When <code>specified</code> is specified for the <code>varuse-array-use</code> attribute, the index of the array element to use for this instance of the variable	On the <b>Variable Use</b> tab of the variable properties in Designer, the box beside the <b>Array element to use</b> list
<code>varuse-array-use</code>	Enum	<p>When the variable is an array, specifies how the array elements are used in the document</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>automatic</code>—Automatically use an element of the array for each occurrence of the variable.</li> <li><code>specified</code>—Use the specific element of the array specified by the <code>varuse-array-index</code> attribute.</li> <li><code>all-with-blank-separator</code>—Use all elements of the array for this instance of the variable, including blank spaces.</li> <li><code>all-with-line-breaks</code>—Use all elements of the array for this instance of the variable, separated by line breaks (soft return).</li> <li><code>all-as-paragraphs</code>—Use all elements of the array for this instance of the variable, separated by paragraph breaks (hard return).</li> <li><code>all-as-list</code>—Use all elements of the array in list form for this instance of the variable.</li> </ul>	On the <b>Variable Use</b> tab of the variable properties in Designer, the <b>Array element to use</b> list
<code>varuse-custom-format</code>	Text	When <code>0</code> is specified for the <code>varuse-format</code> attribute, the custom format of the variable	On the <b>Variable Use</b> tab of the variable properties in Designer, the box below the <b>Special Formatting</b> list
<code>varuse-display-string</code>	Text	The text that appears for this instance of the variable in Designer	On the <b>Variable Use</b> tab of the variable properties in Designer, the <b>Design string</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
varuse-format	Int	<p>The output format of this instance of the variable</p> <p>Must be one of the following values, corresponding to the listed settings:</p> <ul style="list-style-type: none"> <li>• 0—Custom format, specified for the varuse-custom-format attribute</li> <li>• 1—Keep Blanks</li> <li>• 2—Trim Blanks</li> <li>• 3—Trim Leading Blanks</li> <li>• 4—Trim Trailing Blanks</li> <li>• 5—General Number</li> <li>• 6—Fixed Decimal</li> <li>• 7—T/F</li> <li>• 8—Y/N</li> <li>• 9—1/0</li> <li>• 10—TRUE/FALSE</li> <li>• 11—Yes/No</li> <li>• 12—Use Locale Specification</li> <li>• 13—Packed (Left to Right)</li> <li>• 14—Packed (Right to Left)</li> <li>• 15—Binary Integer</li> <li>• 16—Binary Float</li> <li>• 17—Binary Double</li> <li>• 18—Locale Currency</li> <li>• 19—Significant Decimal</li> <li>• 20—Fixed or Integer</li> <li>• 21—Lower, Keep Blanks</li> <li>• 22—Lower, Trim Blanks</li> <li>• 23—Lower, Trim Leading</li> <li>• 24—Lower, Trim Trailing</li> <li>• 25—InitCap, Keep Blanks</li> <li>• 26—InitCap, Trim Blanks</li> <li>• 27—InitCap, Trim Leading</li> <li>• 28—InitCap, Trim Trailing</li> <li>• 29—Packed (Left to Left)</li> <li>• 30—Packed (Right to Left)</li> <li>• 31—Zoned</li> </ul>	On the <b>Variable Use</b> tab of the variable properties in Designer, the <b>Special Formatting</b> list

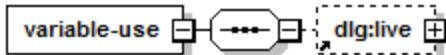
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• 32—Alpha Upper (A, B, C)</li> <li>• 33—Alpha Lower (a, b, c)</li> <li>• 34—Roman Upper (I, II, III)</li> <li>• 35—Roman Lower (i, ii, iii)</li> <li>• 36—Text Upper (ONE, TWO)</li> <li>• 37—Text Mixed (One, Two)</li> <li>• 38—Text Lower (one, two)</li> <li>• 39—Hexadecimal String</li> <li>• 40—COBOL Signed (Trailing)</li> <li>• 41—Binary Unsigned Short</li> <li>• 42—Binary Short</li> <li>• 43—Percentage</li> <li>• 44—Percentage x 100</li> <li>• 45—Fixed Decimal with Currency</li> <li>• 46—Upper, Keep Blanks</li> <li>• 47—Upper, Trim Blanks</li> <li>• 48—Upper, Trim Leading</li> <li>• 49—Upper, Trim Trailing</li> <li>• 50—COBOL Signed (Leading)</li> <li>• 51—COBOL Sep-Leading Sign</li> <li>• 52—COBOL Separate Sign</li> <li>• 53—COBOL PHASE3 Signed</li> <li>• 54—COBOL PHASE3 Signed Trailing</li> <li>• 56—InitCap + Exceptions, Keep Blanks</li> <li>• 57—InitCap + Exceptions, Trim Blanks</li> <li>• 58—InitCap + Exceptions, Trim Leading</li> <li>• 59—InitCap + Exceptions, Trim Trailing</li> <li>• 60—Binary Byte</li> <li>• 61—Binary Unsigned Byte</li> <li>• 62—Absolute Value</li> <li>• 63—Phone Number (999) 999-9999</li> <li>• 64—Phone Number (999) 999 9999</li> <li>• 65—Phone Number 999 999-9999</li> <li>• 66—Phone Number 999 999 9999</li> <li>• 67—Exceptions Only, Keep Blanks</li> <li>• 68—Exceptions Only, Trim Blanks</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• 69—Exceptions Only, Trim Leading</li> <li>• 70—Exceptions Only, Trim Trailing</li> <li>• 71—Lower + Exceptions, Keep Blanks</li> <li>• 72—Lower + Exceptions, Trim Blanks</li> <li>• 73—Lower + Exceptions, Trim Leading</li> <li>• 74—Lower + Exceptions, Trim Trailing</li> <li>• 75—Upper + Exceptions, Keep Blanks</li> <li>• 76—Upper + Exceptions, Trim Blanks</li> <li>• 77—Upper + Exceptions, Trim Leading</li> <li>• 78—Upper + Exceptions, Trim Trailing</li> <li>• 79—Sentence, Keep Blanks</li> <li>• 80—Sentence, Trim Blanks</li> <li>• 81—Sentence, Trim Leading</li> <li>• 82—Sentence, Trim Trailing</li> <li>• 83—Sentence + Exceptions, Keep Blanks</li> <li>• 84—Sentence + Exceptions, Trim Blanks</li> <li>• 85—Sentence + Exceptions, Trim Leading</li> <li>• 86—Sentence + Exceptions, Trim Trailing</li> <li>• 87—COBOL Signed (Trailing ASCII)</li> <li>• 88—Binary 64-bit Integer</li> <li>• 89—Reverse, Keep Blanks</li> <li>• 90—Reverse, Trim Blanks</li> <li>• 91—Reverse, Trim Leading</li> <li>• 92—Reverse, Trim Trailing</li> <li>• 193—Raw Content</li> <li>• 194—Base-64 Encoded Content</li> <li>• 195—Ascii85 Encoded Content</li> <li>• 196—Fixed or Integer with Currency</li> <li>• 197—RTF Content</li> <li>• 198—Plain Text Content</li> <li>• 199—Composed XML (DXF) Content</li> <li>• 200—Placeholder Content</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
varuse-justification	Enum	<p>Specifies whether fixed-length output is created for this instance of the variable and in which direction the value is justified</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>none</b>—Do not create fixed-length output for this instance of the variable.</li> <li>• <b>left</b>—Left-justify the value, and pad with the character specified for the varuse-pad-character attribute to reach the length specified for the varuse-length attribute.</li> <li>• <b>right</b>—Right-justify the value, and pad with the character specified for the varuse-pad-character attribute to reach the length specified for the varuse-length attribute.</li> </ul>	On the <b>Variable Use</b> tab of the variable properties in Designer, when the <b>Create fixed length output</b> check box is selected, the <b>Justification</b> radio buttons
varuse-length	Int	When left or right is specified for the varuse-justification attribute, the fixed length of the value. The value is padded with the character specified for the varuse-pad-character attribute to reach the specified length.	On the <b>Variable Use</b> tab of the variable properties in Designer, when the <b>Create fixed length output</b> check box is selected, the <b>Length</b> box
varuse-locator-search-key	Ref	A reference to the search key Library object that is applied for this instance of the variable	On the <b>Variable Use</b> tab of the variable properties in Designer, the <b>Search key</b> list
varuse-number-of-digits	Int		
varuse-offset	Int	When left or right is specified for the varuse-justification attribute, the offset for the fixed-length output	On the <b>Variable Use</b> tab of the variable properties in Designer, when the <b>Create fixed length output</b> check box is selected, the <b>Offset</b> box
varuse-pad-character	Enum	<p>When left or right is specified for the varuse-justification attribute, the character to use to pad the variable value to reach the length specified for the varuse-length attribute</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>space</b></li> <li>• <b>zero</b></li> </ul>	On the <b>Variable Use</b> tab of the variable properties in Designer, when the <b>Create fixed length output</b> check box is selected, the <b>Pad</b> radio buttons

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
varuse-substitution-time	Int	<p>When using the variable in a Live document, the time at which the variable is substituted</p> <p>Must be one of the following values, corresponding to the listed settings:</p> <ul style="list-style-type: none"> <li>• 0— <b>Initial engine run only.</b> Read data only during the first engine run when the Live document is produced.</li> <li>• 1— <b>Initial engine run and LiveEditor.</b> Read data during the first engine run and when end users upload distribution lists in LiveEditor.</li> <li>• 2— <b>Initial Engine, Interactive Editor, and Final Engine.</b> Read data during the first engine run, last (fulfillment) engine run, and when end users upload distribution lists in LiveEditor.</li> </ul>	On the <b>Variable Use</b> tab of the variable properties in Designer, the <b>When to substitute</b> list
varuse-variable	Ref	A reference to the variable Library object used in the design	

## Structure



## Example

```
<dlg:variable-use varuse-aggregation="none" varuse-array-index="1"
varuse-array-use="automatic" varuse-custom-format=""
varuse-display-string="" varuse-format="1"
varuse-justification="right" varuse-length="40"
varuse-locator-search-key="Search Key|0|" varuse-number-of-digits="2"
varuse-offset="0" varuse-pad-character="space"
varuse-substitution-time="1"
varuse-variable="Variable|634|Test_variable"/>
```

## 4.7 Logic Elements

Logic elements represent the rules that determine whether certain documents, pages, design objects, and text are included for each customer.

For more information about the rules that are represented by elements in this section, see *Using Logic to Drive an Application* in the Exstream Design and Production documentation.

This section contains the following elements:

- “[content \(dlg:content\)](#)” [on the next page](#)
- “[text-rule \(dlg:text-rule\)](#)” [on page 593](#)
- “[usage-rule \(dlg:usage-rule\)](#)” [on page 594](#)

## 4.7.1 content (dlg:content)

The `dlg:content` element defines the rule logic for a rule defined by the `dlg:usage-rule` parent element.

The character data of the element contains the rule logic, using the same syntax as the Code Panel for a rule in Design Manager or Designer. For best results, use a CDATA section for the rule logic.

### Parents

`dlg:usage-rule`

### Attributes

None.

### Structure



### Example

```
<dlg:content><! [CDATA[IF(Customer_Age >= 13) THEN  
INCLUDE  
ENDIF]]></dlg:content>
```

## 4.7.2 text-rule (dlg:text-rule)

The `dlg:text-rule` element identifies a rule that applies to a hyperlink or a segment of text.

### Parents

```
fo:basic-link
fo:inline
wrapper (fo:wrapper)
```

### Attribute

Attribute	Data type	Description
<code>usage-rule</code>	Ref	A reference to the rule (either in the Library or defined by a <code>dlg:usage-rule</code> element) that determines the inclusion of the text for a customer

### Structure



### Example

```
<fo:inline ...>This text depends on a rule.
<dlg:text-rule usage-rule="Rule|21|Test rule"/>
</fo:inline>
```

### 4.7.3 usage-rule (dlg:usage-rule)

The `dlg:usage-rule` element represents a rule that controls the inclusion of an object that references it using a `usage-rule` attribute. Use the `dlg:content` child element to define the rule logic.

#### Parents

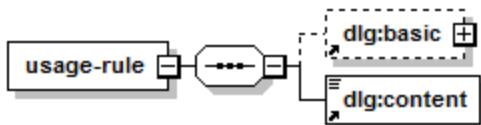
`fo:declarations`

#### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
advanced	Bool	Not used  <b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but <code>false</code> is always specified.	
code-trace	Enum	Specifies what information, if any, is written to the debug file during execution of the rule when running a code trace  One of the following: <ul style="list-style-type: none"><li>• <code>none</code>—Do not write information to the debug file during execution of the rule.</li><li>• <code>sourceline</code>—Write each code statement during execution of the rule to the debug file.</li><li>• <code>assigned</code>—Write each code statement during execution of the rule to the debug file, along with the names of variables as they are used.</li><li>• <code>all</code>—Write each code statement during execution of the rule to the debug file, along with the values of variables as they are used.</li></ul>	On the <b>Rule</b> tab of the <b>Rule</b> dialog box for a rule or object, the <b>Code trace</b> drop-down list
default-include	Bool	Specifies whether the object is included when the rule is true. When <code>false</code> is specified for this attribute, the object is excluded when the rule is true and included otherwise.	On the <b>Rule</b> tab of the <b>Rule</b> dialog box for a rule or object, the <b>Include</b> check box, or, when using the logic code view, the <b>Include by default</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
in-library	Bool	Specifies whether the rule is stored separately as a Library object. When <code>false</code> is specified for this attribute, the rule is associated only with the object represented by the parent element. When <code>true</code> is specified for this attribute, use a <code>dlg:basic</code> child element to define the Library properties of the rule.	On the <b>Rule</b> tab of the <b>Rule</b> dialog box for a rule or object, the  and  buttons
max-copies	Int	In instances where a Library object can be included multiple times, the number of times it can be included when the rule conditions are met	On the <b>Rule</b> tab of the <b>Rule</b> dialog box for a rule or object, the box beside the <b>Include</b> check box
watch-level	Enum	When debugging, specifies whether debug information is added to the debug file when the rule is run  One of the following: <ul style="list-style-type: none"><li>• <code>none</code>—The rule is not watched, and no information is added to the debug file when the rule is run.</li><li>• <code>fired</code>—Information is added to the debug file each time the rule is run.</li></ul>	On the <b>Rule</b> tab of the <b>Rule</b> dialog box for a rule or object, the <b>Watch level</b> drop-down list

## Structure



## Example

```

<dlg:usage-rule advanced="false" code-trace="none"
default-include="false" in-library="true" max-copies="1"
watch-level="none">
    <dlg:basic folder="Folder|2000000000|Exstream" oid="21">
        <dlg:name>Age check</dlg:name>
        <dlg:description>Age check for parent/guardian
        consent</dlg:description>
    </dlg:basic>
    <dlg:content><![CDATA[IF(Customer_Age >= 13) THEN
INCLUDE
ENDIF]]></dlg:content>
</dlg:usage-rule>

```

## 4.8 Multiple-Channel Delivery Elements

Multiple-channel delivery elements represent the objects used in high-volume production, such as barcodes and inserters.

For more information about the design objects that are represented by elements in this section, see *Creating Output* in the Exstream Design and Production documentation.

This section contains the following elements:

- “[barcode \(dlg:barcode\)](#)” on the next page
- “[barcode-use \(dlg:barcode-use\)](#)” on page 616
- “[bin-content \(dlg:bin-content\)](#)” on page 618
- “[build-part \(dlg:build-part\)](#)” on page 620
- “[inserter \(dlg:inserter\)](#)” on page 627
- “[page-side \(dlg:page-side\)](#)” on page 631

## 4.8.1 barcode (dlg:barcode)

The `dlg:barcode` element represents a barcode Library object.

### Parents

`dlg:barcode-use`

`dlg:inserter`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
barcode-type	Enum	<p>The type of barcode defined by the element</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• 2of5</li><li>• 3of9</li><li>• code128</li><li>• data-matrix</li><li>• ean128</li><li>• ean8</li><li>• four-state</li><li>• gbr-omr</li><li>• general</li><li>• japanese-postal</li><li>• modified-plessey</li><li>• omr</li><li>• pdf417</li><li>• postnet</li><li>• qr-code</li><li>• upc</li></ul>	On the <b>Basic</b> tab of the barcode properties, the <b>Barcode type</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
bar-size1	Int	<p>When <code>true</code> is specified for the <code>draw-lines</code> attribute, the width, in dots, of the narrowest bars in the barcode</p> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>2of5</code></li> <li>• <code>3of9</code></li> <li>• <code>code128</code></li> <li>• <code>ean128</code></li> <li>• <code>ean8</code></li> <li>• <code>modified-plessey</code></li> <li>• <code>upc</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>Barcode sizes in dots</b> area, in the <b>Bars</b> column, the <b>Size 1</b> box
bar-size2	Int	<p>When <code>true</code> is specified for the <code>draw-lines</code> attribute, the width, in dots, of the second-narrowest bars in the barcode</p> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>2of5</code></li> <li>• <code>3of9</code></li> <li>• <code>code128</code></li> <li>• <code>ean128</code></li> <li>• <code>ean8</code></li> <li>• <code>modified-plessey</code></li> <li>• <code>upc</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>Barcode sizes in dots</b> area, in the <b>Bars</b> column, the <b>Size 2</b> box
bar-size3	Int	<p>When <code>true</code> is specified for the <code>draw-lines</code> attribute, the width, in dots, of the second-widest bars in the barcode</p> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>code128</code></li> <li>• <code>ean128</code></li> <li>• <code>ean8</code></li> <li>• <code>upc</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>Barcode sizes in dots</b> area, in the <b>Bars</b> column, the <b>Size 3</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
bar-size4	Int	<p>When <code>true</code> is specified for the <code>draw-lines</code> attribute, the width, in dots, of the widest bars in the barcode</p> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>code128</code></li> <li>• <code>ean128</code></li> <li>• <code>ean8</code></li> <li>• <code>upc</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>Barcode sizes in dots</b> area, in the <b>Bars</b> column, the <b>Size 4</b> box
bcoca-check-digit	Bool	<p>When <code>bcoca</code> is specified for the <code>output-type</code> attribute, specifies whether Bar Code Object Content Architecture (BCOCA) objects are used to generate a check digit in the barcode in AFP output</p> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>2of5</code></li> <li>• <code>3of9</code></li> <li>• <code>japanese-postal</code></li> <li>• <code>modified-plessey</code></li> </ul> <p>Because a check digit is required and is automatically included, this attribute does not need to be defined when the following values are specified for the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>code128</code></li> <li>• <code>ean128</code></li> <li>• <code>ean8</code></li> <li>• <code>postnet</code></li> <li>• <code>upc</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, the <b>Use BCOCA check digit</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
bcoca-hri	Bool	<p>When bcoca is specified for the output-type attribute, specifies whether Bar Code Object Content Architecture (BCOCA) objects are used to generate a human-readable identifier (HRI) for the barcode in AFP output. Use the hri-placement attribute to specify the location of the BCOCA-generated HRI.</p> <p>Valid for the following values of the barcode-type attribute:</p> <ul style="list-style-type: none"> <li>• 2of5</li> <li>• 3of9</li> <li>• code128</li> <li>• ean128</li> <li>• ean8</li> <li>• four-state</li> <li>• japanese-postal</li> <li>• modified-plessey</li> <li>• upc</li> </ul>	On the <b>Basic</b> tab of the barcode properties, the <b>Use BCOCA check digit</b> check box
bcoca-no-asterisk	Bool	When bcoca is specified for the output-type attribute; true is specified for the bcoca-hri attribute; and 3of9 is specified for the barcode-type attribute, specifies whether the asterisks at the beginning and end of the human-readable identifier are omitted	On the <b>Basic</b> tab of the barcode properties, in the <b>Human readable (HRI)</b> area, the <b>Do not include asterisk</b> check box
bcoca-width	Int	<p>When bcoca is specified for the output-type attribute, the approximate width, in logical units, of the barcode in AFP output. The actual printed width might vary, depending on the specifications for spacing and bar thickness for the barcode type.</p> <p>Valid for the following values of the barcode-type attribute:</p> <ul style="list-style-type: none"> <li>• 2of5</li> <li>• 3of9</li> <li>• code128</li> <li>• ean128</li> <li>• ean8</li> <li>• japanese-postal</li> <li>• modified-plessey</li> <li>• upc</li> </ul>	On the <b>Basic</b> tab of the barcode properties, the <b>BCOCA width</b> box
bottom	Int	The distance, in logical units, from the top of the page (using the reference specified for the placement attribute) to the bottom of the barcode	On the <b>Basic</b> tab of the barcode properties, the <b>Bottom</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
design-sample	Text	The characters displayed when the barcode is used in Designer	On the <b>Basic</b> tab of the barcode properties, the <b>Design sample</b> box
dm-data-type	Enum	<p>When <code>data-matrix</code> is specified for the <code>barcode-type</code> attribute, and any value except <code>200</code> is specified for the <code>dm-error-level</code> attribute, the character set that can be encoded by the barcode</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>full</code>—Allow the full 128-character ASCII set to be encoded.</li> <li>• <code>numeric</code>—Allow only numeric characters to be encoded.</li> <li>• <code>upper-alpha</code>—Allow only uppercase alphabetic characters to be encoded.</li> <li>• <code>upper-alpha-num</code>—Allow only uppercase alphabetic characters and numeric characters to be encoded.</li> <li>• <code>upper-alpha-punc</code>—Allow only uppercase alphabetic characters and punctuation characters to be encoded.</li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Data type</b> drop-down list
dm-error-level	Enum	<p>When <code>data-matrix</code> is specified for the <code>barcode-type</code> attribute, the error correction level for the barcode. When <code>bcoса</code> is specified for the <code>output-type</code> attribute, you must specify <code>200</code> for this attribute.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code></li> <li>• <code>10</code></li> <li>• <code>40</code></li> <li>• <code>50</code></li> <li>• <code>60</code></li> <li>• <code>70</code></li> <li>• <code>80</code></li> <li>• <code>90</code></li> <li>• <code>100</code></li> <li>• <code>110</code></li> <li>• <code>120</code></li> <li>• <code>130</code></li> <li>• <code>140</code></li> <li>• <code>200</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Error correction level</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
dm-height	Int	When <code>data-matrix</code> is specified for the <code>barcode-type</code> attribute, the number of squares that make up the barcode vertically. To allow Exstream to determine the most efficient height automatically, specify 0 for this attribute.	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Dimension HxW</b> drop-down list
dm-pixel-size	Int	When <code>data-matrix</code> is specified for the <code>barcode-type</code> attribute, the size of each of the squares in the barcode	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Pixel block size</b> box
dm-width	Int	When <code>data-matrix</code> is specified for the <code>barcode-type</code> attribute, the number of squares that make up the barcode horizontally. To allow Exstream to determine the most efficient width automatically, specify 0 for this attribute.	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Dimension HxW</b> drop-down list
draw-lines	Bool	<p>Specifies whether the barcode is generated in the output by drawing lines. When <code>false</code> is specified for this attribute, the barcode is generated using a barcode font. When <code>true</code> is specified for this attribute, the sizes of the bars and spaces are determined by the <code>bar-size1</code>, <code>bar-size2</code>, <code>bar-size3</code>, <code>bar-size4</code>, <code>space-size1</code>, <code>space-size2</code>, <code>space-size3</code>, and <code>space-size4</code> attributes.</p> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>2of5</code></li> <li>• <code>3of9</code></li> <li>• <code>code128</code></li> <li>• <code>ean128</code></li> <li>• <code>ean8</code></li> <li>• <code>japanese-postal</code></li> <li>• <code>modified-plessey</code></li> <li>• <code>upc</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, the <b>Draw lines</b> check box
font-face	Text	When <code>false</code> is specified for the <code>draw-lines</code> attribute, the font face used to generate the barcode	On the <b>Basic</b> tab of the barcode properties, the <b>Barcode font (size is based on barcode height)</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
height	Int	The height, in logical units, of the barcode	On the <b>Basic</b> tab of the barcode properties, the <b>Height</b> box
hri-bottom	Int	When <b>position</b> is specified for the <b>hri-placement</b> attribute, specifies one of the following, based on the value specified for the <b>hri-relative</b> attribute: <ul style="list-style-type: none"> <li>• When <b>true</b> is specified for the <b>hri-relative</b> attribute, the distance, in logical units, between the bottom of the barcode and the bottom of the human-readable identifier (HRI)</li> <li>• When <b>false</b> is specified for the <b>hri-relative</b> attribute, the distance, in logical units, between the top of the page and the bottom of the HRI</li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>Human readable (HRI)</b> area, the <b>Bottom</b> box
hri-font-bold	Bool	When any value except <b>none</b> is specified for the <b>hri-placement</b> attribute, specifies whether the human-readable identifier font is bold	On the <b>Basic</b> tab of the barcode properties, in the <b>Human readable (HRI)</b> area, the <b>Bold</b> check box
hri-font-face	Text	When any value except <b>none</b> is specified for the <b>hri-placement</b> attribute, the font face used for the human-readable identifier	On the <b>Basic</b> tab of the barcode properties, in the <b>Human readable (HRI)</b> area, the <b>Font</b> box
hri-font-italic	Bool	When any value except <b>none</b> is specified for the <b>hri-placement</b> attribute, specifies whether the human-readable identifier font is italic	On the <b>Basic</b> tab of the barcode properties, in the <b>Human readable (HRI)</b> area, the <b>Italic</b> check box
hri-font-size	Int	When any value except <b>none</b> is specified for the <b>hri-placement</b> attribute, the font size used for the human-readable identifier	On the <b>Basic</b> tab of the barcode properties, in the <b>Human readable (HRI)</b> area, the <b>Size</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>hri-left</code>	Int	<p>When <code>position</code> is specified for the <code>hri-placement</code> attribute, specifies one of the following, based on the value specified for the <code>hri-relative</code> attribute:</p> <ul style="list-style-type: none"> <li>• When <code>true</code> is specified for the <code>hri-relative</code> attribute, the distance, in logical units, between the left side of the barcode and the left side of the human-readable identifier (HRI)</li> <li>• When <code>false</code> is specified for the <code>hri-relative</code> attribute, the distance, in logical units, between the left side of the page and the left side of the HRI</li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>Human readable (HRI)</b> area, the <b>Left</b> box
<code>hri-orientation</code>	Enum	<p>When any value except <code>none</code> is specified for the <code>hri-placement</code> attribute, the rotation of the human-readable identifier (HRI)</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>portrait</code>—The bottom of the HRI faces the left side of the page. (The HRI is rotated 90 degrees.)</li> <li>• <code>landscape</code>—The bottom of the HRI faces the bottom of the page. (The HRI is not rotated.)</li> <li>• <code>portrait-reversed</code>—The bottom of the HRI faces the right side of the page. (The HRI is rotated 270 degrees.)</li> <li>• <code>landscape-reversed</code>—The bottom of the HRI faces the top of the page. (The HRI is rotated 180 degrees.)</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• <code>any</code></li> <li>• <code>none</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>Human readable (HRI)</b> area, the <b>Orientation</b> dropdown list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>hri-placement</code>	Enum	<p>The placement of the human-readable identifier (HRI)</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>above</code>—Place the HRI above the barcode.</li> <li>• <code>below</code>—Place the HRI below the barcode.</li> <li>• <code>none</code>—When <code>false</code> is specified for the <code>bcoca-hri</code> attribute, do not show an HRI with the barcode. When <code>true</code> is specified for the <code>bcoca-hri</code> attribute, place the HRI in the default position determined by the settings of the AFP output device.</li> <li>• <code>position</code>—Position the HRI using the coordinates specified for the <code>hri-bottom</code> and <code>hri-left</code> attributes, relative to the origin determined by the <code>hri-relative</code> attribute. This setting is valid only when <code>false</code> is specified for the <code>bcoca-hri</code> attribute.</li> </ul> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>2of5</code></li> <li>• <code>3of9</code></li> <li>• <code>code128</code></li> <li>• <code>ean128</code></li> <li>• <code>ean8</code></li> <li>• <code>four-state</code></li> <li>• <code>japanese-postal</code></li> <li>• <code>modified-plessey</code></li> <li>• <code>upc</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>Human readable (HRI)</b> area, the <b>Placement</b> box
<code>hri-relative</code>	Bool	When <code>position</code> is specified for the <code>hri-placement</code> attribute, specifies whether the human-readable identifier (HRI) is positioned relative to the barcode. When <code>false</code> is specified for this attribute, the HRI is positioned absolutely on the page.	On the <b>Basic</b> tab of the barcode properties, in the <b>Human readable (HRI)</b> area, the <b>Relative</b> check box
<code>left</code>	Int	The distance, in logical units, from the left side of the page (using the reference specified for the <code>placement</code> attribute) to the left side of the barcode	On the <b>Basic</b> tab of the barcode properties, the <b>Left</b> box
<code>map-base</code>	Int	When <code>3of9</code> is specified for the <code>barcode-type</code> attribute, the numerical base used to encode the barcode	On the <b>Basic</b> tab of the barcode properties, the <b>Base</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
map-string	Text	<p>The map string that defines the character mapping in the barcode</p> <p>Valid for the following values of the barcode-type attribute, with the default map string listed for each value:</p> <ul style="list-style-type: none"> <li>• 2of5—0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ</li> <li>• 3of9—0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ</li> <li>• code128—%\$ ! "#%&amp;()&lt;&gt;*+, -./0123456789: ;&lt;=&gt;?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\ ]</li> <li>• ean128—%\$ ! "#%&amp;()&lt;&gt;*+, -./0123456789: ;&lt;=&gt;?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\ ]</li> <li>• ean8—0123456789[   ]ABCDEFGHIJKLMNOPQRSTUVWXYZ</li> <li>• japanese-postal—0123456789-abcdefgh()</li> <li>• modified-plessey—0123456789[ ]ABCDEF</li> <li>• upc—0123456789[   ]ABCDEFGHIJKLMNOPQRSTUVWXYZ</li> </ul>	On the <b>Basic</b> tab of the barcode properties, the <b>Map string</b> box
orientation	Enum	<p>The rotation of the barcode</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• portrait—The bottom of the barcode faces the left side of the page. (The barcode is rotated 90 degrees.)</li> <li>• landscape—The bottom of the barcode faces the bottom of the page. (The barcode is not rotated.)</li> <li>• portrait-reversed—The bottom of the barcode faces the right side of the page. (The barcode is rotated 270 degrees.)</li> <li>• landscape-reversed—The bottom of the barcode faces the top of the page. (The barcode is rotated 180 degrees.)</li> </ul> <p>The following values are not used:</p> <ul style="list-style-type: none"> <li>• any</li> <li>• none</li> </ul>	On the <b>Basic</b> tab of the barcode properties, the <b>Orientation</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
output-type	Enum	<p>Specifies whether Bar Code Object Content Architecture (BCOCA) objects are used to generate the barcode in AFP output</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• bcoca—Use BCOCA objects to generate the barcode in AFP output.</li> <li>• pdl-draw—Use a barcode font or draw lines (depending on the value of the draw-lines attribute) to generate the barcode in AFP output.</li> </ul> <p>Valid for the following values of the barcode-type attribute:</p> <ul style="list-style-type: none"> <li>• 2of5</li> <li>• 3of9</li> <li>• code128</li> <li>• data-matrix</li> <li>• ean128</li> <li>• ean8</li> <li>• four-state</li> <li>• japanese-postal</li> <li>• modified-plessey</li> <li>• pdf417</li> <li>• postnet</li> <li>• qr-code</li> <li>• upc</li> </ul>	On the <b>Basic</b> tab of the barcode properties, the <b>Generate AFP BCOCA barcode</b> check box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
pdf417-columns	Enum	<p>When pdf417 is specified for the barcode-type attribute, the number of columns in the barcode. To allow Exstream to automatically determine the number of columns needed, specify auto for this attribute.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• auto</li> <li>• 1</li> <li>• 2</li> <li>• 3</li> <li>• 4</li> <li>• 5</li> <li>• 6</li> <li>• 7</li> <li>• 8</li> <li>• 9</li> <li>• 10</li> <li>• 11</li> <li>• 12</li> <li>• 13</li> <li>• 14</li> <li>• 15</li> <li>• 16</li> <li>• 17</li> <li>• 18</li> <li>• 19</li> <li>• 20</li> <li>• 21</li> <li>• 22</li> <li>• 23</li> <li>• 24</li> <li>• 25</li> <li>• 26</li> <li>• 27</li> <li>• 28</li> <li>• 29</li> <li>• 30</li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Columns</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
pdf417-compaction	Enum	<p>When pdf417 is specified for the barcode-type attribute, specifies which characters can be encoded by the barcode and the resulting maximum compaction available</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>text</b>—Allow only printable ASCII characters (character values 32–126, and certain control characters) to be encoded. The maximum compaction is two characters per codeword.</li> <li>• <b>byte</b>—Allow all 128 ASCII characters to be encoded. The maximum compaction is 1.2 bytes per codeword.</li> <li>• <b>numeric</b>—Allow only numeric characters to be encoded. The maximum compaction is 2.9 digits per codeword.</li> </ul> <p>The following value is not used:</p> <ul style="list-style-type: none"> <li>• <b>mixed</b></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Compaction type</b> drop-down list
pdf417-error-level	Enum	<p>When pdf417 is specified for the barcode-type attribute, the error correction level for the barcode</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• 10—0 (2 EC codewords)</li> <li>• 11—1 (4 EC codewords)</li> <li>• 12—2 (8 EC codewords)</li> <li>• 13—3 (16 EC codewords)</li> <li>• 14—4 (32 EC codewords)</li> <li>• 15—5 (64 EC codewords)</li> <li>• 16—6 (128 EC codewords)</li> <li>• 17—7 (256 EC codewords)</li> <li>• 18—8 (512 EC codewords)</li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Error correction level</b> drop-down list
pdf417-rows	Int	When pdf417 is specified for the barcode-type attribute, the number of rows in the barcode. To allow Exstream to automatically determine the number of rows needed, specify 0 for this attribute.	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Rows</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
placement	Enum	<p>The reference point for the position measurement values specified for the <code>bottom</code> and <code>left</code> attributes</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>ulp</code>—The measurements represent the distance from the upper left corner of a portrait page (upper left portrait).</li> <li><code>ull</code>—The measurements represent the distance from the upper left corner of a landscape page (upper left landscape).</li> </ul>	On the <b>Basic</b> tab of the barcode properties, the <b>Placement</b> drop-down list
qr-error-level	Enum	<p>When <code>qr-code</code> is specified for the <code>barcode-type</code> attribute, the error correction level for the barcode</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>low</code>—7%</li> <li><code>medium</code>—15%</li> <li><code>quartil</code>—25%</li> <li><code>high</code>—30%</li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Error correction level</b> drop-down list
qr-mask-pattern	Enum	<p>When <code>qr-code</code> is specified for the <code>barcode-type</code> attribute, the mask pattern for the barcode</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li><code>auto</code></li> <li><code>0</code></li> <li><code>1</code></li> <li><code>2</code></li> <li><code>3</code></li> <li><code>4</code></li> <li><code>5</code></li> <li><code>6</code></li> <li><code>7</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Mask pattern</b> drop-down list
qr-module-width	Int	When <code>qr-code</code> is specified for the <code>barcode-type</code> attribute, the size of each module in the bar code	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Module width</b> box

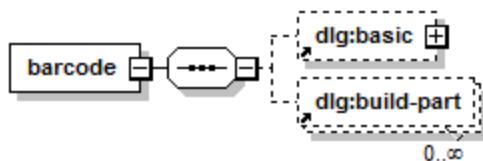
Attribute	Data type	Description	Corresponding Exstream Design and Production setting
qr-symbol-version	Enum	<p>When qr-code is specified for the barcode-type attribute, the version of the bar code, which determines the size</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• auto—Automatic sizing</li> <li>• 1—21 x 21 modules</li> <li>• 2—25 x 25 modules</li> <li>• 3—29 x 29 modules</li> <li>• 4—33 x 33 modules</li> <li>• 5—37 x 37 modules</li> <li>• 6—41 x 41 modules</li> <li>• 7—45 x 45 modules</li> <li>• 8—49 x 49 modules</li> <li>• 9—53 x 53 modules</li> <li>• 10—57 x 57 modules</li> <li>• 11—61 x 61 modules</li> <li>• 12—65 x 65 modules</li> <li>• 13—69 x 69 modules</li> <li>• 14—73 x 73 modules</li> <li>• 15—77 x 77 modules</li> <li>• 16—81 x 81 modules</li> <li>• 17—85 x 85 modules</li> <li>• 18—89 x 89 modules</li> <li>• 19—93 x 93 modules</li> <li>• 20—97 x 97 modules</li> <li>• 21—101 x 101 modules</li> <li>• 22—105 x 105 modules</li> <li>• 23—109 x 109 modules</li> <li>• 24—113 x 113 modules</li> <li>• 25—117 x 117 modules</li> <li>• 26—121 x 121 modules</li> <li>• 27—125 x 125 modules</li> <li>• 28—129 x 129 modules</li> <li>• 29—133 x 133 modules</li> <li>• 30—137 x 137 modules</li> <li>• 31—141 x 141 modules</li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>2D barcode properties</b> area, the <b>Symbol version (size)</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• 32—145 x 145 modules</li> <li>• 33—149 x 149 modules</li> <li>• 34—153 x 153 modules</li> <li>• 35—157 x 157 modules</li> <li>• 36—161 x 161 modules</li> <li>• 37—165 x 165 modules</li> <li>• 38—169 x 169 modules</li> <li>• 39—173 x 173 modules</li> <li>• 40—177 x 177 modules</li> </ul>	
ref-id	Int	In a container design, the reference ID of the object that is used by the <code>oid</code> attribute of the <code>dlg:contained-ref</code> element to place the object within a container	
schemaVersion	Int	The schema version for this DXF document	
space	Int	<p>The width, in logical units, of the space between the bars; or, when <code>pdf417</code> is specified for the <code>barcode-type</code> attribute, the height of each row in the stacked barcode</p> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>four-state</code></li> <li>• <code>gbr-omr</code></li> <li>• <code>japanese-postal</code> (when <code>true</code> is specified for the <code>draw-lines</code> attribute)</li> <li>• <code>omr</code></li> <li>• <code>pdf417</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, the <b>Space</b> box
space-size1	Int	<p>When <code>true</code> is specified for the <code>draw-lines</code> attribute, the width, in dots, of the narrowest spaces in the barcode</p> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>2of5</code></li> <li>• <code>3of9</code></li> <li>• <code>code128</code></li> <li>• <code>ean128</code></li> <li>• <code>ean8</code></li> <li>• <code>modified-plessey</code></li> <li>• <code>upc</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>Barcode sizes in dots</b> area, in the <b>Spaces</b> column, the <b>Size 1</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
space-size2	Int	<p>When <code>true</code> is specified for the <code>draw-lines</code> attribute, the width, in dots, of the second-narrowest spaces in the barcode</p> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>2of5</code></li> <li>• <code>3of9</code></li> <li>• <code>code128</code></li> <li>• <code>ean128</code></li> <li>• <code>ean8</code></li> <li>• <code>modified-plessey</code></li> <li>• <code>upc</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>Barcode sizes in dots</b> area, in the <b>Spaces</b> column, the <b>Size 2</b> box
space-size3	Int	<p>When <code>true</code> is specified for the <code>draw-lines</code> attribute, the width, in dots, of the second-widest spaces in the barcode</p> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>code128</code></li> <li>• <code>ean128</code></li> <li>• <code>ean8</code></li> <li>• <code>upc</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>Barcode sizes in dots</b> area, in the <b>Spaces</b> column, the <b>Size 3</b> box
space-size4	Int	<p>When <code>true</code> is specified for the <code>draw-lines</code> attribute, the width, in dots, of the widest spaces in the barcode</p> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>code128</code></li> <li>• <code>ean128</code></li> <li>• <code>ean8</code></li> <li>• <code>upc</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, in the <b>Barcode sizes in dots</b> area, in the <b>Spaces</b> column, the <b>Size 4</b> box
thickness	Int	<p>The width, in logical units, of the bars the barcode; or, when <code>pdf417</code> is specified for the <code>barcode-type</code> attribute, the narrowest bar or space allowed in the barcode</p> <p>Valid for the following values of the <code>barcode-type</code> attribute:</p> <ul style="list-style-type: none"> <li>• <code>four-state</code></li> <li>• <code>gbr-omr</code></li> <li>• <code>japanese-postal</code></li> <li>• <code>omr</code></li> <li>• <code>pdf417</code></li> </ul>	On the <b>Basic</b> tab of the barcode properties, the <b>Thickness</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
use	Enum	<p>The type of objects that can use the barcode</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>all</b>—Any object can use the barcode.</li> <li>• <b>inserter</b>—Only inserters can use the barcode.</li> <li>• <b>message</b>—Only messages can use the barcode.</li> <li>• <b>page</b>—Only pages can use the barcode.</li> <li>• <b>template</b>—Only templates can use the barcode.</li> </ul>	On the <b>Basic</b> tab of the barcode properties, the <b>Objects that can reference this barcode</b> drop-down list
version	Int	The version number of the barcode object	In the <b>Administration</b> dialog box for the page, the <b>Version</b> box; or, in the history view for the barcode object, the <b>Version</b> column
xmlns:dlg	Text	The URI for the Exstream namespace	
xmlns:dxf	Text	The URI for the DXF namespace	
xmlns:fo	Text	The URI for the XSL-FO namespace	

## Structure



## Example

```
<dlg:barcode xmlns:dlg="http://www.hplexstream.com/2009/XSL/HPEXstream"
bar-size1="2" bar-size2="6" barcode-type="3of9"
bcoca-check-digit="false" bcoca-hri="false" bcoca-no-asterisk="false"
bcoca-width="500" bottom="1000" design-sample="" draw-lines="false"
font-face="3 of 9 Barcode" height="500" hri-bottom="1000"
hri-font-bold="true" hri-font-face="Arial" hri-font-italic="false"
hri-font-size="110" hri-left="1000" hri-orientation="landscape"
hri-placement="below" hri-relative="false" left="1000" map-base="16"
map-string="0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ"
orientation="landscape" output-type="pd1-draw" placement="ulp"
schemaVersion="2.0" space-size1="3" space-size2="7" use="page"
xmlns:dxf="http://www.hplexstream.com/2009/XSL/DXF"
xmlns:fo="http://www.w3.org/1999/XSL/Format">
  <dlg:basic folder="Folder|200000000|Exstream" oid="3">
    <dlg:name>3 of 9 Example</dlg:name>
    <dlg:description></dlg:description>
  </dlg:basic>
  <dlg:build-part allow-zero="true" num-digits="2" type="doc-page-num"
use-map="false" variable="Variable|0|"/>
  <dlg:build-part allow-zero="true" num-digits="2" type="total-pages"
use-map="false" variable="Variable|0|"/>
  <dlg:build-part allow-zero="true" num-digits="8" type="variable"
use-map="false" variable="Variable|625|Saving_Account_Number"/>
  <dlg:build-part allow-zero="true" num-digits="5" type="check-base"
use-map="false" variable="Variable|0|"/>
</dlg:barcode>
```

## 4.8.2 barcode-use (dlg:barcode-use)

The `dlg:barcode-use` element defines an instance of a barcode in a design.

Although an instance of a barcode in Designer references a barcode Library object, DXF does not currently allow referencing an existing barcode Library object. Instead, the barcode must be defined using a child `dlg:barcode` element. If you want to duplicate an existing barcode Library object, you can export the barcode object from Design Manager and copy the resulting `dlg:barcode` element.

For more information about exporting DXF from the Library in Design Manager, see “[Creating a Sample DXF File to Help You Understand How an Existing Design is Constructed](#)” on page 17.

### Parents

`dlg:embedded-object`

`dlg:object`

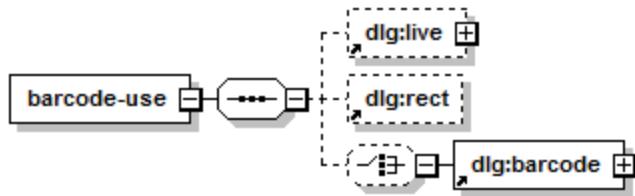
`dlg:objects`

### Attributes

In addition to the following attributes, the `dlg:barcode-use` element uses one or more of the common attributes found in “[Shared Design Object Attributes](#)” on page 635.

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>barcode-auto-id</code>	Bool	Specifies whether Exstream provides a tracking ID for this barcode. When <code>false</code> is specified for this attribute, the <code>barcode-id</code> attribute is used to specify a tracking ID.	On the <b>Barcode</b> tab of the barcode properties in Designer, the <b>Use automatic ID value</b> check box
<code>barcode-id</code>	Text	When <code>false</code> is specified for the <code>barcode-auto-id</code> attribute, the tracking ID of the barcode	On the <b>Barcode</b> tab of the barcode properties in Designer, the <b>Barcode value</b> box
<code>show-hri</code>	Bool	Specifies whether the human-readable identifier (HRI) defined in the barcode Library object is displayed in this instance	On the <b>Barcode</b> tab of the barcode properties in Designer, the <b>Include text (HRI)</b> check box

## Structure



## Example

```
<dlg:barcode-use barcode-auto-id="true" barcode-id="000031" can-split="false" current-angle="0" delay-comp="none" design-var-ndx="0" flip-h="false" flip-v="false" flow-around="no" flow-break="auto" h-auto-size="false" ignore-relative="no" language="Language|0|" lock-proportions="false" meta-props-options="do-not-read" pen="true" pen-color="#rgb(0,0,0)" pen-style="solid" pen-width="1lu" pos-rel-to-above="0" ref-id="6707978" reference-name="Barcode" shadow="none" show-hri="true" v-auto-size="false">
    <dlg:rect bottom="378.65pt" left="107.86pt" right="504.58pt" top="351.50pt"/>
    <dlg:barcode bar-size1="2" bar-size2="6" barcode-type="3of9" bcoca-check-digit="false" bcoca-hri="false" bcoca-no-asterisk="false" bcoca-width="500" bottom="1000" design-sample="" draw-lines="false" font-face="3 of 9 Barcode" height="500" hri-bottom="1000" hri-font-bold="true" hri-font-face="Arial" hri-font-italic="false" hri-font-size="110" hri-left="1000" hri-orientation="landscape" hri-placement="below" hri-relative="false" left="1000" map-base="16" map-string="0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ" orientation="landscape" output-type="pdl-draw" placement="ulp" space-size1="3" space-size2="7" use="page">
        <dlg:basic folder="Folder|2000000000|Exstream" oid="3">
            <dlg:name>3 of 9</dlg:name>
            <dlg:description></dlg:description>
        </dlg:basic>
        <dlg:build-part allow-zero="true" num-digits="2" type="doc-page-num" use-map="false" variable="Variable|0|"/>
        <dlg:build-part allow-zero="true" num-digits="2" type="total-pages" use-map="false" variable="Variable|0|"/>
        <dlg:build-part allow-zero="true" num-digits="8" type="variable" use-map="false" variable="Variable|625|Saving_Account_Number"/>
        <dlg:build-part allow-zero="true" num-digits="5" type="check-base" use-map="false" variable="Variable|0|"/>
    </dlg:barcode>
</dlg:barcode-use>
```

### 4.8.3 bin-content (dlg:bin-content)

The `dlg:bin-content` element defines the inserts associated with the bins of an inserter. The number and order of `dlg:bin-content` elements within the parent `dlg:inserter` element must match the number and order of bins on the inserter device. The first `dlg:bin-content` element is associated with the first bin, the second is associated with the second, and so on.

#### Parents

`dlg:inserter`

#### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>input-action</code>	Enum	Not used  <b>Note:</b> This attribute is included in exported DXF and XML (composed) output, but no - change is always specified.	
<code>language</code>	Ref	A reference to the language object that specifies the language of the insert associated with this inserter bin. To specify generic language for the insert, omit this attribute or specify <code>Language   0  </code> .	In the inserter properties, the message box for the bin associated with this element
<code>message</code>	Ref	A reference to the insert message associated with this inserter bin. If the reference is to a <code>dlg:message</code> element in the DXF, <code>insert</code> must be specified for the <code>page-type</code> attribute of that element.	In the inserter properties, the language box for the bin associated with this element

#### Structure

bin-content

## Example

```
<dlg:bin-content input-action="no-change" language="Language|0|"  
message="Message|33|Insert 1"/>  
<dlg:bin-content input-action="no-change" language="Language|0|"  
message="Message|34|Insert 2"/>  
<dlg:bin-content input-action="no-change" language="Language|0|"  
message="Message|35|Insert 3"/>  
<dlg:bin-content input-action="no-change" language="Language|0|"  
message="Message|36|Insert 4"/>
```

## 4.8.4 build-part (dlg:build-part)

The `dlg:build-part` element defines the contents in a segment of a barcode Library object. The order of `dlg:build-part` elements within the `dlg:barcode` element determines the order in which the defined segments appear in the barcode.

### Parents

`dlg:barcode`

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
allow-zero	Bool	When gbr-omr or omr is specified for the <code>barcode-type</code> attribute of the parent <code>dlg:barcode</code> element, specifies whether a zero value is allowed for this segment of the barcode	On the <b>Contents</b> tab of the barcode properties, in the row that represents this segment of the barcode, the check box in the <b>Zero</b> column
num-digits	Int	The number of digits in this segment of the barcode	On the <b>Contents</b> tab of the barcode properties, in the row that represents this segment of the barcode, the box in the <b>Digits</b> column
type	Enum	<p>The type of data contained in this segment of the barcode</p> <p>For a list of supported values for this attribute, see "<a href="#">build-part (dlg:build-part)</a>" above.</p>	<p>On the <b>Contents</b> tab of the barcode properties, in the row that represents this segment of the barcode, the drop-down list in the <b>Content</b> column</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"><p><b>Note:</b> The <b>Text</b> option and static values cannot currently be specified in DXF.</p></div>
use-map	Bool	When 3of9 is specified for the <code>barcode-type</code> attribute of the parent <code>dlg:barcode</code> element, specifies whether Exstream converts decimal integer values to the numerical base specified for the <code>map-base</code> attribute of the parent <code>dlg:barcode</code> element	On the <b>Contents</b> tab of the barcode properties, in the row that represents this segment of the barcode, the check box in the <b>Map</b> column
variable	Ref	When <code>variable</code> is specified for the <code>type</code> attribute, a reference to the variable that provides the data for this segment of the barcode	On the <b>Contents</b> tab of the barcode properties, in the row that represents this segment of the barcode, the variable box in the <b>Value</b> column

### Values of the type attribute

Value	Insert this data in this segment of the barcode	Valid for these values of the barcode-type attribute of the parent <a href="#">dlg:barcode</a> element	Valid for these values of the use attribute of the parent <a href="#">dlg:barcode</a> element
<b>General content types</b>			
<code>empty</code>	Empty spaces	All values	All values
<code>variable</code>	Data provided by the variable referenced by the <code>variable</code> attribute	All values	All values
<code>always1</code>	A value of 1	<code>gbr-omr</code> <code>omr</code> <code>pdf417</code>	All values
<b>Sheet, document, page, and output content types</b>			
<code>total-sheets</code>	The total number of sheets in the document	All values except <code>four-state</code>	All values except <code>message</code>
<code>total-pages</code>	The total number of pages in the document	All values except <code>four-state</code>	All values except <code>message</code>
<code>sheet-number</code>	The current sheet number	All values except <code>four-state</code>	All values except <code>message</code>
<code>doc-page-num</code>	The current page number	All values except <code>four-state</code>	All values except <code>message</code>
<code>q-page-num</code>	The current page number in the current output queue	All values except <code>four-state</code>	All values except <code>message</code>
<code>stream-page-num</code>	The current page number within the current break of the current output queue	All values except <code>four-state</code>	All values except <code>message</code>
<code>first-page</code>	If the current page is the first page, 1; otherwise, 0	All values except <code>four-state</code>	All values except <code>message</code>
<code>last-page</code>	If the current page is the last page, 1; otherwise, 0	All values except <code>four-state</code>	All values except <code>message</code>
<code>not-first-page</code>	If the current page is not the first page, 1; otherwise, 0	All values except <code>four-state</code>	All values except <code>message</code>
<code>not-last-page</code>	If the current page is not the last page, 1; otherwise, 0	All values except <code>four-state</code>	All values except <code>message</code>
<code>q-sheet-num</code>	The current sheet number in the current output queue	All values except <code>four-state</code>	All values except <code>message</code>

Values of the type attribute, continued

Value	Insert this data in this segment of the barcode	Valid for these values of the bar code -type attribute of the parent <a href="#">dlg:barcode</a> element	Valid for these values of the use attribute of the parent <a href="#">dlg:barcode</a> element
stream-sheet-num	The current sheet number in the current break of the current output queue	All values except four-state	All values except message
q-doc-num	The current customer number being written into the current output queue	All values except four-state	All values except message
stream-doc-num	The current customer number within the current break of the current output queue	All values except four-state	All values except message
Bin content types			

Values of the type attribute, continued

Value	Insert this data in this segment of the barcode	Valid for these values of the barcode-type attribute of the parent <a href="#">dlg:barcode</a> element	Valid for these values of the use attribute of the parent <a href="#">dlg:barcode</a> element
bin1	A specific inserter bin number or range of inserter bin numbers	All values except four-state	All values except message
bin2			
bin3			
bin4			
bin5			
bin6			
bin7			
bin8			
bin9			
bin10			
bin11			
bin12			
bin13			
bin14			
bin15			
bin16			
bin17			
bin18			
bin19			
bin20			
bin21			
bin22			
bin23			
bin24			
bin25			
bin26			
bin27			
bin28			
bin29			
bin30			
bin31			
bin32			
bins-1to4			
bins-5to8			

Values of the type attribute, continued

Value	Insert this data in this segment of the barcode	Valid for these values of the barcode-type attribute of the parent <a href="#">dlg:barcode</a> element	Valid for these values of the use attribute of the parent <a href="#">dlg:barcode</a> element
<code>bins-9to12</code> <code>bins-13to16</code>			
<b>Message tracking ID</b>			
<code>message-id</code>	An ID number to track messages	<code>2of5</code> <code>3of9</code> <code>code128</code> <code>data-matrix</code> <code>ean128</code> <code>ean8</code> <code>general</code> <code>japanese-postal</code> <code>modified-plessey</code> <code>pdf417</code> <code>qr-code</code> <code>upc</code>	All values except page
<b>Checksum types</b>			
<code>check-base</code>	A character used to calculate the base	<code>3of9</code> <code>general</code> <code>postnet</code>	All values
<code>check-base-sum</code>	A character used to calculate the base sum	<code>3of9</code> <code>general</code> <code>postnet</code>	All values
<code>check-2of5</code>	Checksum digits used with Interleaved 2 of 5 barcodes	<code>2of5</code> <code>general</code>	All values
<code>check-code-128</code>	A checksum character used with Code 128 barcodes. This should be a single character, after the data and before the stop character.	<code>code128</code> <code>ean128</code> <code>general</code>	All values

Values of the type attribute, continued

Value	Insert this data in this segment of the barcode	Valid for these values of the barcode-type attribute of the parent <a href="#">dlg:barcode</a> element	Valid for these values of the use attribute of the parent <a href="#">dlg:barcode</a> element
check-jpostal	A checksum digit used with Japanese Postal barcodes. This should be a single character at the 21st character position in the barcode.	general japanese-postal	All values
check-msi-mod10	A checksum digit calculated using the MSI Mod 10 method	general modified-plessey	All values
check-msi-mod11	A checksum digit calculated using the MSI Mod 11 method	general modified-plessey	All values
check-upc	A checksum digit used with UPC barcodes	ean8 general upc	All values
omr-odd	An extra line if the number of lines is even	gbr-omr omr	All values
omr-even	An extra line if the number of lines is odd	gbr-omr omr	All values
gbr8		gbr-omr	all
gbr16		gbr-omr	all inserter template
Not used			
campaign-id check-3x1x			

## Structure

**build-part**

## Example

```
<dlg:build-part allow-zero="true" num-digits="2" type="doc-page-num"  
use-map="false" variable="Variable|0|"/>
```

## 4.8.5 inserter (dlg:inserter)

The `dlg:inserter` element represents an inserter Library object.

Child `dlg:barcode` elements are used to define any barcodes that control the inserter. Although barcode Library objects are referenced in the inserter properties, DXF does not currently allow referencing an existing barcode Library object. Instead, the barcode must be fully defined using the child `dlg:barcode` element. If you want to duplicate an existing barcode Library object, you can export the barcode object from Design Manager and copy the resulting `dlg:barcode` element.

For more information about exporting DXF from the Library in Design Manager, see “[Creating a Sample DXF File to Help You Understand How an Existing Design is Constructed](#)” on page 17.

### Parents

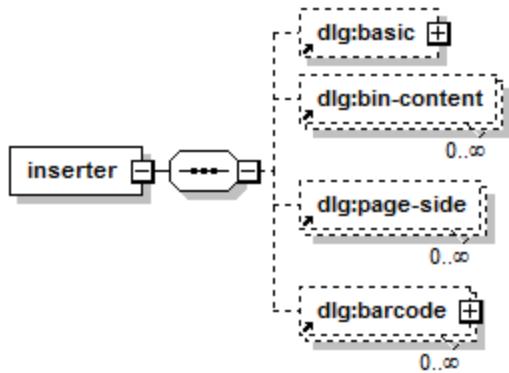
None; `dlg:inserter` is always a root element.

### Attributes

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>bin-action</code>	Enum	<p>Specifies whether the language of each insert must match the language of each customer in order to be sent to that customer</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• <code>ignore</code>—Do not use language settings for inserts.</li><li>• <code>language-only</code>—Send each insert only to customers whose language is the same as that specified for the <code>language</code> attribute of the associated child <code>dlg:bin-content</code> element.</li></ul> <p>The following setting is not used:</p> <ul style="list-style-type: none"><li>• <code>electronic</code></li></ul>	In the inserter properties, the <b>Language matching</b> drop-down list
<code>bins</code>	Int	The number of insert bins on the inserter device. The same number of <code>dlg:bin-content</code> child elements should be defined within this element.	In the inserter properties, the <b>Bins</b> drop-down list
<code>model</code>	Text	The model and type string that helps identify the inserter device	In the inserter properties, the <b>Model</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
schemaVersion	Int	The schema version for this DXF document	
weight	Text	When <code>static</code> is specified for the <code>weight-selection-type</code> attribute, the weight, in ounces or grams, of the carrier envelope associated with this inserter. The appropriate units must be specified.	In the inserter properties, the <b>Weight</b> box
weight-selection-type	Enum	<p>Specifies how the weight of the carrier envelope associated with this inserter is specified</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>static</code>—The weight of the carrier envelope is specified by the <code>weight</code> attribute.</li> <li>• <code>variable-oz</code>—The weight of the carrier envelope is specified, in ounces, by the variable referenced by the <code>weight-variable</code> attribute.</li> <li>• <code>variable-grams</code>—The weight of the carrier envelope is specified, in grams, by the variable referenced by the <code>weight-variable</code> attribute.</li> </ul>	In the inserter properties, the <b>Weight selection method</b> drop-down list
weight-variable	Ref	When <code>variable-oz</code> or <code>variable-grams</code> is specified for the <code>weight-selection-type</code> attribute, a reference to the variable that specifies the weight of the carrier envelope associated with this inserter	In the inserter properties, the <b>Weight</b> variable box
<code>xmlns:dlg</code>	Text	The URI for the Exstream namespace	
<code>xmlns:dx</code>	Text	The URI for the DXF namespace	
<code>xmlns:fo</code>	Text	The URI for the XSL-FO namespace	

## Structure



## Example

```
<dlg:inserter xmlns:dlg="http://www.hplexstream.com/2009/XSL/HPEXstream"
bin-action="ignore" bins="6" model="" schemaVersion="2.0"
weight="0.150000 oz" weight-selection-type="static"
weight-variable="Variable|0|"
xmlns:dx="http://www.hplexstream.com/2009/XSL/DXF"
xmlns:fo="http://www.w3.org/1999/XSL/Format">
    <dlg:basic folder="Folder|2000000000|Exstream" oid="1">
        <dlg:name>BandH Inserter</dlg:name>
        <dlg:description></dlg:description>
    </dlg:basic>
    <dlg:page-side value="front"/>
    <dlg:bin-content input-action="no-change" language="Language|0|"
message="Message|33|Insert 1"/>
    <dlg:bin-content input-action="no-change" language="Language|0|"
message="Message|34|Insert 2"/>
    <dlg:bin-content input-action="no-change" language="Language|0|"
message="Message|35|Insert 3"/>
    <dlg:bin-content input-action="no-change" language="Language|0|"
message="Message|36|Insert 4"/>
    <dlg:barcode barcode-type="data-matrix" bottom="9000"
design-sample="" dm-data-type="full" dm-error-level="200"
dm-height="18" dm-pixel-size="12" dm-width="18" left="50"
orientation="landscape" output-type="pdl-draw" placement="ulp"
use="inserter">
        <dlg:basic folder="Folder|2000000000|Exstream" oid="1">
            <dlg:name>2D</dlg:name>
            <dlg:description></dlg:description>
        </dlg:basic>
        <dlg:build-part allow-zero="true" num-digits="10" type="variable"
use-map="false" variable="Variable|579|Account_Number"/>
        <dlg:build-part allow-zero="true" num-digits="4"
type="sheet-number" use-map="false" variable="Variable|0|"/>
        <dlg:build-part allow-zero="true" num-digits="4"
type="total-sheets" use-map="false" variable="Variable|0|"/>
    </dlg:barcode>
</dlg:inserter>
```

## 4.8.6 page-side (dlg:page-side)

The `dlg:page-side` element specifies on which side of the page or in which multiple-up (MUP) frame each barcode that controls the inserter appears.

If you use multiple barcodes with a single inserter, you must include a `dlg:page-side` element for every `dlg:barcode` element within the same `dlg:inserter` element, and the order of the `dlg:page-side` elements and `dlg:barcode` elements determines which `dlg:page-side` element is associated with each `dlg:barcode` element. That is, the first `dlg:page-side` element within the `dlg:inserter` element is associated with the first `dlg:barcode` element within the `dlg:inserter` element, the second is associated with the second, and so on.

### Parents

`dlg:inserter`

## Attribute

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
page-side	Enum	<p>The side of the page or the multiple-up frame where the barcode appears</p> <p>One of the following:</p> <ul style="list-style-type: none"><li>• front—Place the barcode on the front of the page.</li><li>• back—Place the barcode on the back of the page.</li><li>• both—Place the barcode on both the front and back of the page.</li><li>• mup-even—Place the barcode in even-numbered multiple-up frames.</li><li>• mup-odd—Place the barcode in odd-numbered multiple-up frames.</li><li>• mup12—Place the barcode in multiple-up frames 1 and 2.</li><li>• mup14—Place the barcode in multiple-up frames 1 and 4.</li><li>• mup23—Place the barcode in multiple-up frames 2 and 3.</li><li>• mup34—Place the barcode in multiple-up frames 3 and 4.</li><li>• mup1—Place the barcode in multiple-up frame 1.</li><li>• mup2—Place the barcode in multiple-up frame 2.</li><li>• mup3—Place the barcode in multiple-up frame 3.</li><li>• mup4—Place the barcode in multiple-up frame 4.</li></ul>	In the inserter properties, in the <b>Placement</b> column, the drop-down list for each barcode

## Structure

page-side

## Example

```
<dlg:page-side value="front"/>
<dlg:barcode barcode-type="data-matrix" bottom="9000"
design-sample="" dm-data-type="full" dm-error-level="200"
dm-height="18" dm-pixel-size="12" dm-width="18" left="50"
orientation="landscape" output-type="pdl-draw" placement="ulp"
use="inserter">
  <dlg:basic folder="Folder|2000000000|Exstream" oid="1">
    <dlg:name>2D</dlg:name>
    <dlg:description></dlg:description>
  </dlg:basic>
  <dlg:build-part allow-zero="true" num-digits="10" type="variable"
use-map="false" variable="Variable|579|Account_Number"/>
  <dlg:build-part allow-zero="true" num-digits="4"
type="sheet-number" use-map="false" variable="Variable|0|"/>
  <dlg:build-part allow-zero="true" num-digits="4"
type="total-sheets" use-map="false" variable="Variable|0|"/>
</dlg:barcode>
```

## 4.9 Shared Attributes

The attributes listed in this section apply to more than one element. For each DXF element that uses shared attributes, you'll find in the reference section for that element a cross-reference to the appropriate group of shared attributes.

This section covers the following groups of shared attributes:

- “[Shared Design Object Attributes](#)” on the next page—This group of attributes applies to most design objects. These attributes specify many of the settings that appear on the **Dynamic Size and Placement**, **Lines and Fill**, and **Accessibility** tabs of the object properties, as well as a few other settings that are common to most design objects.
- “[Shared XSL-FO Attributes](#)” on page 650—This group of attributes applies to many elements in the fo namespace. These attributes specify table, font, and paragraph properties.
- “[Shared XSL-FO Attributes Not Used in Exstream](#)” on page 661—This group of attributes contains those that are specified by the Exstream Object and Content DTD for many elements in the fo namespace but are not currently used in DXF.

## 4.9.1 Shared Design Object Attributes

The attributes listed in this section are used with most design objects. These attributes specify many of the settings that appear on the **Dynamic Size and Placement**, **Lines and Fill**, and **Accessibility** tabs of the object properties, as well as a few other settings that are common to most design objects. However, not all of the following attributes function with each of the elements for which this set of attributes is specified by the Exstream Object and Content DTD. For best results, review the properties that apply to each design object in Design Manager and Designer when developing custom DXF, and thoroughly test any custom DXF before using it in production.

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
anchor	Enum	<p>When <code>true</code> is specified for the <code>h-auto-size</code> or <code>v-auto-size</code> attribute, the corner of the object from which it expands</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>t1</code>—The object is anchored at the top-left corner and expands down and to the right.</li> <li>• <code>b1</code>—The object is anchored at the bottom-left corner and expands up and to the right.</li> <li>• <code>tr</code>—The object is anchored at the top-right corner and expands down and to the left.</li> <li>• <code>br</code>—The object is anchored at the bottom-right corner and expands up and to the left.</li> </ul>	<p>On the <b>Dynamic Size and Placement</b> tab of the object properties, the <b>Grow</b> drop-down list (A setting of <code>t1</code> is equivalent to selecting <b>Down</b>, and a setting of <code>b1</code> is equivalent to selecting <b>Up</b>. The values <code>tr</code> and <code>br</code> do not have corresponding selections.)</p>
brush	Bool	Specifies whether the object contains a color fill. If <code>false</code> is specified for this attribute, the object appears transparent.	<p>On the <b>Lines and Fill</b> tab of the object properties, the <b>Fill</b> color well. (A setting of <code>false</code> is equivalent to clicking <b>None</b> in the <b>Color</b> dialog box.)</p>
brush-fill-color	Color	The color with which to fill the object when <code>true</code> is specified for the <code>brush</code> attribute	<p>On the <b>Lines and Fill</b> tab of the object properties, the <b>Fill</b> color well</p>
brush-fill-type	Int	Not used	
brush-hatch	Int	Not used	
can-split	Bool	Specifies whether the object can split across multiple frames or must remain together in a single frame. This attribute is valid only for objects that contain text that can flow, such as text boxes and tables.	<p>On the <b>Dynamic Size and Placement</b> tab of the object properties, the <b>Can split and flow</b> check box</p>

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
current-angle	Int	The rotation, in degrees, of the object	On the <b>Placement</b> tab of the object properties, the <b>Rotation</b> box
design-var-ndx	Int	The index of the array element that stores the value of a selection control or an image selector in a Live document	In the object properties, the <b>Array Element</b> box associated with the applicable variable. For example, on the <b>Image</b> tab of the properties of an image object, the <b>Array Element</b> box beside the <b>Selection variable</b> box.
duplex	Bool	Not used	
dynamic	Int	Not used	<p><b>Note:</b> This attribute is used internally during the DOCX import process.</p>
embed-info	Int	Not used	
flip-h	Bool	Specifies whether to flip the object horizontally when importing it	In Designer, on the <b>Draw</b> menu, the <b>Flip Horizontal</b> selection
flip-v	Bool	Specifies whether to flip the object vertically when importing it	In Designer, on the <b>Draw</b> menu, the <b>Flip Vertical</b> selection
flow-around	Enum	<p>Specifies how text wraps around the object</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• no—The object appears in the design, but text appears over it.</li> <li>• yes—Text wraps around the object.</li> <li>• hide—The object is hidden, but text still wraps around it.</li> <li>• hideonly—The object is hidden and does not affect text wrapping.</li> </ul>	On the <b>Dynamic Size and Placement</b> tab of the object properties, the <b>How text wraps around this object</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
flow-break	Enum	<p>Specifies whether the object causes a page break. This attribute applies only when a setting other than 0 is specified for the pos-rel-to-above attribute.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• auto—Designer automatically determines page breaks. The placement of the object is determined by space on a page.</li> <li>• always—The object always begins a new page, regardless of the amount of white space available on the page before it.</li> <li>• notfirst—if the object is on the first page, the object appears directly under the object to which it is relatively positioned. If flow forces the object to any overflow pages, then the object always begins a new page.</li> </ul>	On the <b>Dynamic Size and Placement</b> tab of the object properties, the <b>Break flow on this object</b> drop-down list
flow-break-margin	Int	Not used	
h-auto-size	Bool	Specifies whether the width of the object will be changed automatically while being edited in Designer or during engine processing. This attribute applies only to objects that can change size based on the contents of variables, such as text boxes and frames.	On the <b>Dynamic Size and Placement</b> tab of the object properties, the <b>Autosize width</b> box
hyper-meta-props-alternate-text	Text	The text that an accessibility tool reads to represent the hyperlink on the object when <b>read-alternate-text</b> is specified for the <b>hyper-meta-props-options</b> attribute	On the <b>Accessibility</b> tab of the object properties, the <b>Alternate text</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
hyper-meta-props-language	Enum	<p>The language used when the <code>hyper-meta-props-options</code> attribute is set to <code>read-alternate-text</code> or <code>read-object-text</code>. If this attribute is omitted and no other parent object has a language specified, the default customer language is used. If this attribute is omitted and a parent object has a language specified, the language on the parent object is inherited.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>default</code>—The default customer language</li> <li>• <code>amharic</code>—Amharic</li> <li>• <code>arabic</code>—Arabic</li> <li>• <code>armenian</code>—Armenian</li> <li>• <code>bengali</code>—Bengali</li> <li>• <code>catalan</code>—Catalan</li> <li>• <code>cebuano</code>—Cebuano</li> <li>• <code>chinese</code>—Chinese (PRC)</li> <li>• <code>chinese-tw</code>—Chinese (Taiwan)</li> <li>• <code>chinese-hk</code>—Chinese (Hong Kong SAR)</li> <li>• <code>chinese-sg</code>—Chinese (Singapore)</li> <li>• <code>czech</code>—Czech</li> <li>• <code>danish</code>—Danish</li> <li>• <code>dutch</code>—Dutch</li> <li>• <code>english-us</code>—English (American)</li> <li>• <code>english-au</code>—English (Australian)</li> <li>• <code>english-uk</code>—English (British)</li> <li>• <code>farsi</code>—Farsi (Persian)</li> <li>• <code>finnish</code>—Finnish</li> <li>• <code>french</code>—French</li> <li>• <code>french-creole</code>—French Creole</li> <li>• <code>french-ca</code>—French (Canadian)</li> <li>• <code>german</code>—German</li> <li>• <code>gujarati</code>—Gujarati</li> <li>• <code>hawaiian</code>—Hawaiian</li> <li>• <code>hindi</code>—Hindi</li> <li>• <code>hmong</code>—Hmong</li> </ul>	On the <b>Accessibility</b> tab of the object properties, the <b>Accessibility language</b> list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• hungarian—Hungarian</li> <li>• igbo—Igbo</li> <li>• ilokano—Ilokano</li> <li>• italian—Italian</li> <li>• japanese—Japanese</li> <li>• khmer—Khmer</li> <li>• korean—Korean</li> <li>• kru—Kru</li> <li>• lao—Lao</li> <li>• marshallese—Marshallese</li> <li>• navajo—Navajo</li> <li>• nepali—Nepali</li> <li>• norway—Norwegian</li> <li>• norway-bokmal—Norwegian (Bokmål)</li> <li>• newnorway—Norwegian (Nynorsk)</li> <li>• oromo—Oromo</li> <li>• pohnpeian—Pohnpeian</li> <li>• polish—Polish</li> <li>• portug—Portuguese</li> <li>• brazil—Portuguese (Brazilian)</li> <li>• punjabi—Punjabi</li> <li>• romanian—Romanian</li> <li>• russian—Russian</li> <li>• samoan—Samoan</li> <li>• spanish—Spanish</li> <li>• swedish—Swedish</li> <li>• tagalog—Tagalog</li> <li>• thai—Thai</li> <li>• tongan—Tongan</li> <li>• turkish—Turkish</li> <li>• ukranian—Ukrainian</li> <li>• urdu—Urdu</li> <li>• vietnamese—Vietnamese</li> <li>• yoruba—Yoruba</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
hyper-meta-props-options	Enum	<p>Specifies whether object text or alternate text on the hyperlink on the object is read by accessibility tools</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• do-not-read—Do not read object text or alternate text for this object or for any of its child objects.</li> <li>• read-alternate-text—Read the alternate text specified for the meta-props-alternate-text attribute.</li> <li>• read-object-text—Read the text that is associated with a textual object.</li> </ul>	On the <b>Accessibility</b> tab of the object properties, the <b>Read options</b> list
hyper-meta-props-order	Int	The numerical order in which you want the text to be read by accessibility tools when the <b>hyper-meta-props-option</b> attribute is set to <b>read-alternate-text</b> or <b>read-object-text</b>	On the <b>Accessibility</b> tab of the object properties, the <b>Read order</b> box
hyperlink-anchor	Ref	When <b>internal</b> is specified for the <b>link-type</b> attribute, a reference to the hyperlink anchor object that marks the internal destination for the link	In the <b>Hyperlink Properties</b> dialog box for the object, the <b>Internal link</b> box
hyperlink-new-window	Bool	When <b>static</b> or <b>dynamic</b> is specified for the <b>link-type</b> attribute, specifies whether the link opens in a new window	On the <b>Hyperlink Properties</b> dialog box for the object, the <b>Open in new window</b> check box
<b>id</b>	Int	The unique serial number of the object	
ignore-relative	Enum	<p>Specifies how the object affects the flow of other objects on the page</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• no—Other objects can move relative to this object if it grows, shrinks, or disappears.</li> <li>• ignore—This object does not affect the position of other objects.</li> <li>• ignorebreak—This object does not affect the position of other objects, but it causes a page break. Objects above it break at a fixed margin above this object and flow to another page.</li> </ul>	On the <b>Dynamic Size and Placement</b> tab of the object properties, the <b>Ignore for relative flow</b> drop-down list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
in-available-objects	Bool	Specifies whether the object is listed in the <b>Available Objects</b> section of the Outline Viewer. If <code>true</code> is specified for this attribute, the object does not appear in the standard design.	In Designer, in the Outline Viewer, the position of the object in either the <b>Available Objects</b> section (a setting of <code>true</code> ) or the <b>In Use Objects</b> section (a setting of <code>false</code> )
language	Ref	A reference to the language object in the Library that is associated with the language layer on which the object appears	In Designer, on the <b>View</b> menu, the <b>Language Layer</b> selection. This attribute specifies which layer contains the object.
layer-name	Text	Not used	
link-type	Enum	<p>Specifies whether the object links to an external URL or to an internal hyperlink anchor</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>none</code>—The object does not link to a URL or a hyperlink anchor.</li> <li>• <code>static</code>—The object links to the URL specified for the <code>static-hyperlink</code> attribute.</li> <li>• <code>dynamic</code>—The object links to the URL provided by the variable referenced by the <code>variable-hyperlink</code> attribute.</li> <li>• <code>internal</code>—The object links to the internal location specified for the <code>hyperlink-anchor</code> attribute.</li> </ul>	In the <b>Hyperlink Properties</b> dialog box for the object, the <b>Static link</b> , <b>Dynamic link</b> , and <b>Internal link</b> radio buttons
locked	Enum	Not used	
meta-order	Int	Not used	
meta-props-alternate-text	Text	The text that an accessibility tool reads to represent the object when <code>read-alternate-text</code> is specified for the <code>meta-props-options</code> attribute	On the <b>Accessibility</b> tab of the object properties, the <b>Alternate text</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-language	Enum	<p>The language used when the meta-props-options attribute is set to read-alternate-text or read-object-text. If this attribute is omitted and no other parent object has a language specified, the default customer language is used. If this attribute is omitted and a parent object has a language specified, the language on the parent object is inherited.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• default—The default customer language</li> <li>• amharic—Amharic</li> <li>• arabic—Arabic</li> <li>• armenian—Armenian</li> <li>• bengali—Bengali</li> <li>• catalan—Catalan</li> <li>• cebuano—Cebuano</li> <li>• chinese—Chinese (PRC)</li> <li>• chinese-tw—Chinese (Taiwan)</li> <li>• chinese-hk—Chinese (Hong Kong SAR)</li> <li>• chinese-sg—Chinese (Singapore)</li> <li>• czech—Czech</li> <li>• danish—Danish</li> <li>• dutch—Dutch</li> <li>• english-us—English (American)</li> <li>• english-au—English (Australian)</li> <li>• english-uk—English (British)</li> <li>• farsi—Farsi (Persian)</li> <li>• finnish—Finnish</li> <li>• french—French</li> <li>• french-creole—French Creole</li> <li>• french-ca—French (Canadian)</li> <li>• german—German</li> <li>• gujarati—Gujarati</li> <li>• hawaiian—Hawaiian</li> <li>• hindi—Hindi</li> <li>• hmong—Hmong</li> </ul>	On the <b>Accessibility</b> tab of the object properties, the <b>Accessibility language</b> list

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• hungarian—Hungarian</li> <li>• igbo—Igbo</li> <li>• ilokano—Ilokano</li> <li>• italian—Italian</li> <li>• japanese—Japanese</li> <li>• khmer—Khmer</li> <li>• korean—Korean</li> <li>• kru—Kru</li> <li>• lao—Lao</li> <li>• marshallese—Marshallese</li> <li>• navajo—Navajo</li> <li>• nepali—Nepali</li> <li>• norway—Norwegian</li> <li>• norway-bokmal—Norwegian (Bokmål)</li> <li>• newnorway—Norwegian (Nynorsk)</li> <li>• oromo—Oromo</li> <li>• pohnpeian—Pohnpeian</li> <li>• polish—Polish</li> <li>• portug—Portuguese</li> <li>• brazil—Portuguese (Brazilian)</li> <li>• punjabi—Punjabi</li> <li>• romanian—Romanian</li> <li>• russian—Russian</li> <li>• samoan—Samoan</li> <li>• spanish—Spanish</li> <li>• swedish—Swedish</li> <li>• tagalog—Tagalog</li> <li>• thai—Thai</li> <li>• tongan—Tongan</li> <li>• turkish—Turkish</li> <li>• ukranian—Ukrainian</li> <li>• urdu—Urdu</li> <li>• vietnamese—Vietnamese</li> <li>• yoruba—Yoruba</li> </ul>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
meta-props-options	Enum	<p>Specifies whether object text or alternate text is read by accessibility tools</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• do-not-read—Do not read object text or alternate text for this object or for any of its child objects.</li> <li>• read-alternate-text—Read the alternate text specified for the meta-props-alternate-text attribute.</li> <li>• read-object-text—Read the text that is associated with a textual object.</li> </ul>	On the <b>Accessibility</b> tab of the object properties, the <b>Read options</b> list
meta-props-order	Int	The numerical order in which you want the text to be read by accessibility tools when the meta-props-option attribute is set to <b>read-alternate-text</b> or <b>read-object-text</b>	On the <b>Accessibility</b> tab of the object properties, the <b>Read order</b> box
min-flow-size	Int	The minimum size, in inches, of a frame to which the object is allowed to flow	On the <b>Dynamic Size and Placement</b> tab of the object properties, the <b>Minimum flow size</b> box
pen	Bool	Specifies whether the object has a visible outline	On the <b>Lines and Fill</b> tab of the object properties, the <b>Frame</b> selection area. (A setting of <code>false</code> is equivalent to selecting <b>None</b> .)
pen-color	Color	When <code>true</code> is specified for the pen attribute, the color of the object outline	On the <b>Lines and Fill</b> tab of the object properties, the <b>Frame</b> color well
pen-style	Text	<p>The type of outline to use for the object</p> <p>The following entries are valid:</p> <ul style="list-style-type: none"> <li>• solid— _____</li> <li>• dashed— — — — —</li> <li>• shortdashed— — — — —</li> <li>• dotted— - - - - - -</li> <li>• fardashed— - - - - - -</li> </ul>	On the <b>Lines and Fill</b> tab of the object properties, the <b>Frame</b> selection area
pen-width	Int	The width, in logical units, of the object outline	On the <b>Lines and Fill</b> tab of the object properties, the box in the <b>Frame</b> area that contains the outline width

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
pos-rel-to-above	Int	<p>The relative placement behavior of the object. Must be in the range 0–8, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0—None; the object is static and is not affected by the movement or growth of other objects.</li> <li>• 1—Above; the object moves if the object above it moves or grows.</li> <li>• 2—Above, at fixed page position; the object always appears at the same place on a page when moved, but additional pages are allowed to be composed before the page on which the object appears. When using this setting, use the <code>rel-pos-reqd-y</code> attribute to specify the vertical position of the object.</li> <li>• 3—Above, shrink to fit page (applies only to frames); the frame moves when the object above it moves, but the frame shrinks if needed in order to fit on the page. When using this setting, use the <code>size-minimum</code> attribute to specify the minimum size of the frame.</li> <li>• 4—Above, grow/shrink to fit page (applies only to frames); the frame moves when the object above it moves, and it grows or shrinks if needed in order to fit on the page. When using this setting, use the <code>size-minimum</code> and <code>size-maximum</code> attributes to specify the minimum and maximum size of the frame.</li> <li>• 5—To the left; the object moves if the object to the left of it moves.</li> <li>• 6—To the right; the object moves if the object to the right of it moves.</li> <li>• 7—Left, grow to bottom (applies only to frames); the frame moves with the object to the left and grows until it reaches the bottom of the page.</li> <li>• 8—Right, grow to bottom (applies only to frames); the frame moves with the object to the right and grows until it reaches the bottom of the page.</li> </ul>	On the <b>Dynamic Size and Placement</b> tab of the object properties, the <b>Move relative to the object</b> drop-down list
ref-id	Int	In a container design, the reference ID of the object that is used by the <code>oid</code> attribute of the <code>dlg:contained-ref</code> element to place the object within a container	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
reference-name	Text	The name of the object	On the <b>Dynamic Size and Placement</b> tab of the object properties, the <b>Reference name</b> box
rel-pos-reqd-y	Int	When 2 is specified for the pos-rel-to-above attribute, the fixed vertical position, in inches, of an object	On the <b>Dynamic Size and Placement</b> tab of the object properties, the <b>Y position</b> box
shadow	Enum	Specifies whether the object has a shadow	On the <b>Lines and Fill</b> tab of the object properties, the <b>Shadow</b> color well. (A setting of <b>false</b> is equivalent to clicking <b>None</b> in the <b>Color</b> dialog box.)
shadow-color	Color	When <b>true</b> is specified for the <b>shadow</b> attribute, the color of the shadow of the object	On the <b>Lines and Fill</b> tab of the object properties, the <b>Shadow</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
shadow-fill	Int	<p>The hatching or pattern used for the color of the shadow of the object</p> <p>Must be in the range 0–15, corresponding to the following settings:</p> <ul style="list-style-type: none"> <li>• 0— </li> <li>• 1— </li> <li>• 2— </li> <li>• 3— </li> <li>• 4— </li> <li>• 5— </li> <li>• 6— </li> <li>• 7— </li> <li>• 8— </li> <li>• 9— </li> <li>• 10— </li> <li>• 11— </li> </ul>	The <b>Fill Effects</b> dialog box for the shadow of the object

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
		<ul style="list-style-type: none"> <li>• 12— </li> <li>• 13— </li> <li>• 14— </li> <li>• 15— </li> </ul>	
<code>size-maximum</code>	Int	When 4 is specified for the <code>pos-rel-to-above</code> attribute, the maximum size, in inches, of a frame	
<code>size-minimum</code>	Int	When 3 or 4 is specified for the <code>pos-rel-to-above</code> attribute, the minimum size, in inches, of a frame	On the <b>Dynamic Size and Placement</b> tab of the object properties, the <b>Minimum size</b> box
<code>startup</code>	Bool	Not used	
<code>static-hyperlink</code>	Text	When <code>static</code> is specified for the <code>link-type</code> attribute, the destination URL of the link	On the <b>Hyperlink Properties</b> dialog box for the object, the <b>Static link</b> drop-down list and box
<code>variable-hyperlink</code>	Ref	When <code>variable</code> is specified for the <code>link-type</code> attribute, a reference to the variable that provides the destination URL for the link	On the <b>Hyperlink Properties</b> dialog box for the object, the <b>Dynamic link</b> box
<code>variable-hyperlink-ndx-value</code>	Ref	<p>When an array variable is specified for the <code>link-type</code> attribute, the <code>variable-hyperlink-ndx-value</code> attribute defines the index of a destination URL stored in the variable referenced by the <code>variable-hyperlink</code> attribute.</p> <p>This attribute is available only for run-time imports.</p>	

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>variable-hyperlink-ndx-var</code>	Ref	<p>When an array variable is specified for the <code>link-type</code> attribute, the <code>variable-hyperlink-ndx-var</code> attribute defines a variable that is evaluated and then used as the index of a destination URL stored in the variable referenced by the <code>variable-hyperlink</code> attribute.</p> <p>This attribute is available only for run-time imports.</p>	
<code>v-auto-size</code>	Bool	Specifies whether the height of the object will be changed automatically while being edited in Designer or during engine processing. This attribute applies only to objects that can change size based on the contents of variables, such as text boxes and frames.	On the <b>Dynamic Size and Placement</b> tab of the object properties, the <b>Autosize height</b> box

## 4.9.2 Shared XSL-FO Attributes

The attributes listed in this section are used with many elements in the fo namespace. These attributes specify table, font, and paragraph properties. However, not all of the following attributes function with each of the elements for which this set of attributes is specified by the Exstream Object and Content DTD. For best results, review the properties that apply to each design object in Design Manager and Designer when developing custom DXF, and thoroughly test any custom DXF before using it in production.

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
background-color	Color	The background color of the object	In the object properties, the <b>Background</b> color well
baseline-shift	Int	The distance, in logical units, that text is placed above the baseline. A negative value indicates a distance below the baseline.	In the <b>Adjust Baseline</b> dialog box for a selection of text (accessed from the <b>Format &gt; Adjust Baseline</b> menu selection), the <b>Position</b> drop-down list and the <b>By</b> box
border-bottom-color	Color	The color of the bottom border line	On the <b>Row Properties</b> tab of the row properties, the <b>Line below</b> color well; or, on the <b>Table Cell Properties</b> tab of the cell properties, in the <b>Border Properties</b> dialog box for the bottom border line, the <b>Line properties</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
border-bottom-style	Enum	<p>The style of the bottom border line</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not include a border.</li> <li>• solid— </li> <li>• dashed— </li> <li>• shortdashed— </li> <li>• dotted— </li> <li>• fardashed— </li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• double</li> <li>• groove</li> <li>• inset</li> <li>• outset</li> <li>• ridge</li> </ul>	On the <b>Row Properties</b> tab of the row properties, the <b>Line below</b> style selection box; or, on the <b>Table Cell Properties</b> tab of the cell properties, in the <b>Border Properties</b> dialog box for the bottom border line, the <b>Line properties</b> style selection box
border-bottom-width	Int	The width, in logical units, of the bottom border line	On the <b>Row Properties</b> tab of the row properties, the <b>Line below</b> width box; or, on the <b>Table Cell Properties</b> tab of the cell properties, in the <b>Border Properties</b> dialog box for the bottom border line, the <b>Line properties</b> width box
border-color	Color	The color of the entire border	On the <b>Lines and Fill</b> tab of the table properties, the <b>Frame</b> color well
border-left-color	Color	The color of the left border line	On the <b>Column Properties</b> tab of the column properties, the <b>Line left</b> color well; or, on the <b>Table Cell Properties</b> tab of the cell properties, in the <b>Border Properties</b> dialog box for the left border line, the <b>Line properties</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
border-left-style	Enum	<p>The style of the left border line</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not include a border.</li> <li>• solid— </li> <li>• dashed— </li> <li>• shortdashed— </li> <li>• dotted— </li> <li>• fardashed— </li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• double</li> <li>• groove</li> <li>• inset</li> <li>• outset</li> <li>• ridge</li> </ul>	On the <b>Column Properties</b> tab of the column properties, the <b>Line left style</b> selection box; or, on the <b>Table Cell Properties</b> tab of the cell properties, in the <b>Border Properties</b> dialog box for the left border line, the <b>Line properties</b> style selection box
border-left-width	Int	The width, in logical units, of the left border line	On the <b>Column Properties</b> tab of the column properties, the <b>Line left width</b> box; or, on the <b>Table Cell Properties</b> tab of the cell properties, in the <b>Border Properties</b> dialog box for the left border line, the <b>Line properties width</b> box
border-right-color	Color	The color of the right border line	On the <b>Column Properties</b> tab of the column properties, the <b>Line right color</b> well; or, on the <b>Table Cell Properties</b> tab of the cell properties, in the <b>Border Properties</b> dialog box for the right border line, the <b>Line properties</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
border-right-style	Enum	<p>The style of the right border line</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not include a border.</li> <li>• solid— </li> <li>• dashed— </li> <li>• shortdashed— </li> <li>• dotted— </li> <li>• fardashed— </li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• double</li> <li>• groove</li> <li>• inset</li> <li>• outset</li> <li>• ridge</li> </ul>	On the <b>Column Properties</b> tab of the column properties, the <b>Line right style</b> selection box; or, on the <b>Table Cell Properties</b> tab of the cell properties, in the <b>Border Properties</b> dialog box for the right border line, the <b>Line properties</b> style selection box
border-right-width	Int	The width, in logical units, of the right border line	On the <b>Column Properties</b> tab of the column properties, the <b>Line right width</b> box; or, on the <b>Table Cell Properties</b> tab of the cell properties, in the <b>Border Properties</b> dialog box for the right border line, the <b>Line properties width</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
border-style	Enum	<p>The style of the entire border line</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not include a border.</li> <li>• solid— </li> <li>• dashed— </li> <li>• shortdashed— </li> <li>• dotted— </li> <li>• fardashed— </li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• double</li> <li>• groove</li> <li>• inset</li> <li>• outset</li> <li>• ridge</li> </ul>	On the <b>Lines and Fill</b> tab of the table properties, the <b>Frame</b> style selection box
border-top-color	Color	The color of the top border line	On the <b>Row Properties</b> tab of the row properties, the <b>Line above</b> color well; or, on the <b>Table Cell Properties</b> tab of the cell properties, in the <b>Border Properties</b> dialog box for the top border line, the <b>Line properties</b> color well

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
border-top-style	Enum	<p>The style of the right border line</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none—Do not include a border.</li> <li>• solid—_____</li> <li>• dashed—— — — —</li> <li>• shortdashed— — — — — —</li> <li>• dotted— - - - - -</li> <li>• fardashed— - - - - -</li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• double</li> <li>• groove</li> <li>• inset</li> <li>• outset</li> <li>• ridge</li> </ul>	On the <b>Row Properties</b> tab of the row properties, the <b>Line above</b> style selection box; or, on the <b>Table Cell Properties</b> tab of the cell properties, in the <b>Border Properties</b> dialog box for the top border line, the <b>Line properties</b> style selection box
border-top-width	Int	The width, in logical units, of the right border line	On the <b>Row Properties</b> tab of the row properties, the <b>Line above</b> width box; or, on the <b>Table Cell Properties</b> tab of the cell properties, in the <b>Border Properties</b> dialog box for the top border line, the <b>Line properties</b> width box
border-width	Int	The width, in logical units, of the entire border line	On the <b>Lines and Fill</b> tab of the table properties, the <b>Frame</b> width box
color	Color	The color of the object or text	In the object properties, or, for a selection of text, the <b>Select Font</b> dialog box (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Color</b> color well
end-indent	Int	The right margin of the text, in logical units	In the <b>Text paragraph properties</b> dialog box for a selection of text (accessed from the <b>Format &gt; Paragraph</b> menu selection), the <b>Right margin</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
font-family	Text	The font face of the text	In the <b>Select Font</b> dialog box for a selection of text (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Font</b> box and list
font-size	Int	The font size of the text, in points	In the <b>Select Font</b> dialog box for a selection of text (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Point size</b> drop-down list
font-style	Enum	<p>Specifies whether the text is italic</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>normal</code></li> <li>• <code>italic</code></li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• <code>backslant</code></li> <li>• <code>oblique</code></li> </ul>	In the <b>Select Font</b> dialog box for a selection of text (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Italic</b> check box
font-weight	Enum	<p>Specifies whether the text is bold</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <code>normal</code></li> <li>• <code>bold</code></li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• <code>bolder</code></li> <li>• <code>lighter</code></li> <li>• <code>100</code></li> <li>• <code>200</code></li> <li>• <code>300</code></li> <li>• <code>400</code></li> <li>• <code>500</code></li> <li>• <code>600</code></li> <li>• <code>700</code></li> <li>• <code>800</code></li> <li>• <code>900</code></li> </ul>	In the <b>Select Font</b> dialog box for a selection of text (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Bold</b> check box
height	Int	The height of the object, in logical units	On the <b>Placement</b> tab of the text box properties, the <b>Height</b> box; or, on the <b>Row Properties</b> tab of the row properties, the <b>Current height</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
<code>id</code>	Text	The unique serial number of the object or text selection	
<code>is-comment</code>	Bool	In a Live document, specifies whether the text in an element represents a revision comment  For more information about revision comments, see <i>Designing for LiveEditor</i> in the Exstream Design and Production documentation.	
<code>keep-together</code>	Enum	Specifies whether lines in the text can break across columns, frames, or pages  One of the following: <ul style="list-style-type: none"><li>• <code>auto</code>—Automatically break the text selection as necessary.</li><li>• <code>always</code>—Keep the text selection together.</li></ul>	In the <b>Text paragraph properties</b> dialog box for a selection of text (accessed from the <b>Format &gt; Paragraph</b> menu selection), the <b>Cannot split</b> check box
<code>letter-spacing</code>	Int	The amount, in points, to expand the tracking (or, letter spacing) of the text. A negative value specifies an amount to condense the tracking of the text.	In the <b>Select Font</b> dialog box for a selection of text (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Tracking</b> drop-down list and box
<code>line-height</code>	Int	The measurement to use in setting line spacing. The value specified for the <code>line-spacing</code> attribute determines how the value specified for this attribute is used.	In the <b>Text paragraph properties</b> dialog box for a selection of text (accessed from the <b>Format &gt; Paragraph</b> menu selection), the <b>Space</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
line-spacing	Enum	<p>The line spacing in the text</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>single</b>—Lines are single-spaced.</li> <li>• <b>one-and-half</b>—Lines are one-and-one-half-spaced.</li> <li>• <b>double</b>—Lines are double-spaced.</li> <li>• <b>at-least</b>—The space below each line must be at least the amount specified for the <b>line-height</b> attribute, in logical units. The space is increased if the font requires more room.</li> <li>• <b>exact</b>—The space below each line is always the distance specified for the <b>line-height</b> attribute, in logical units, even if the text overlaps.</li> <li>• <b>multiple</b>—The space below each line is the distance specified for the <b>line-height</b> attribute, in tenths of the line height determined by the font size used for the text.</li> <li>• <b>exact-word</b>—Lines behave as they do in Microsoft Word and use the amount of space specified by the <b>line-height</b> attribute, in logical units. Any excess space appears above the line of text.</li> </ul>	In the <b>Text paragraph properties</b> dialog box for a selection of text (accessed from the <b>Format &gt; Paragraph</b> menu selection), the <b>Line spacing</b> drop-down list
margin-bottom	Int	The bottom margin of a text box or table cell, in logical units	On the <b>Text</b> tab of the text box properties, or on the <b>Table Cell Properties</b> tab of the table cell properties, the <b>Bottom margin</b> box
margin-left	Int	The left margin of a text box or table cell, in logical units	On the <b>Text</b> tab of the text box properties, or on the <b>Table Cell Properties</b> tab of the table cell properties, the <b>Left margin</b> box
margin-right	Int	The right margin of a text box or table cell, in logical units	On the <b>Text</b> tab of the text box properties, or on the <b>Table Cell Properties</b> tab of the table cell properties, the <b>Right margin</b> box
margin-top	Int	The top margin of a text box or table cell, in logical units	On the <b>Text</b> tab of the text box properties, or on the <b>Table Cell Properties</b> tab of the table cell properties, the <b>Top margin</b> box

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
space-after	Int	The space below the paragraph of text, in logical units	In the <b>Text paragraph properties</b> dialog box for a selection of text (accessed from the <b>Format &gt; Paragraph</b> menu selection), the <b>Below</b> box
space-before	Int	The space above the paragraph of text, in logical units	In the <b>Text paragraph properties</b> dialog box for a selection of text (accessed from the <b>Format &gt; Paragraph</b> menu selection), the <b>Above</b> box
start-indent	Int	The left margin of the text, in logical units	In the <b>Text paragraph properties</b> dialog box for a selection of text (accessed from the <b>Format &gt; Paragraph</b> menu selection), the <b>Left margin</b> box
start-indent-use-default	Bool	Specifies whether to use the default tab measurement for the left margin of the text instead of the value specified for the <b>start-indent</b> attribute	
supersub	Enum	<p>Specifies whether the text is formatted as subscript or superscript. For normal text, leave this attribute undefined.</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>subscript</b></li> <li>• <b>superscript</b></li> </ul>	The <b>Format &gt; Text &gt; Subscript</b> and <b>Format &gt; Text &gt; Superscript</b> menu selections
text-align	Enum	<p>The alignment of a block of text</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• <b>left</b></li> <li>• <b>center</b></li> <li>• <b>right</b></li> <li>• <b>justify</b></li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• <b>start</b></li> <li>• <b>end</b></li> </ul>	The selections on the <b>Format &gt; Paragraph Alignment</b> menu for a selection of text

Attribute	Data type	Description	Corresponding Exstream Design and Production setting
text-decoration	Enum	<p>Specifies whether underlining or strike-through formatting is added to the text</p> <p>One of the following:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• underline</li> <li>• line-through</li> </ul> <p>The following values are not supported:</p> <ul style="list-style-type: none"> <li>• overline</li> <li>• blink</li> </ul>	In the <b>Select Font</b> dialog box for a selection of text (accessed from the <b>Format &gt; Font</b> menu selection), the <b>Underline</b> drop-down list and the <b>Strike</b> check box
text-indent	Int	The distance, in logical units, to indent the first line of a block of text. A negative value indicates a hanging indent, and specifies the distance that all subsequent lines are indented.	In the <b>Text paragraph properties</b> dialog box for a selection of text (accessed from the <b>Format &gt; Paragraph</b> menu selection), the <b>Auto layout</b> check box, the <b>Hanging indented</b> or <b>Indented</b> radio button, and the <b>Offset</b> box
variable-content	Bool	Indicates variable content in XML (composed) output from the engine. Not used in imported DXF.	
width	Int	The width of the object, in logical units	On the <b>Placement</b> tab of the text box properties, or on the <b>Column Properties</b> tab of the column properties, the <b>Width</b> box

### 4.9.3 Shared XSL-FO Attributes Not Used in Exstream

The attributes listed in this section belong to many elements in the fo namespace but are not used in Exstream Design and Production.

Attribute	Data type
absolute-position	Enum
alignment-adjust	Text
alignment-baseline	Enum
azimuth	Text
background	Text
background-attachment	Text
background-image	Text
background-position	Text
background-position-horizontal	Text
background-position-vertical	Text
background-repeat	Text
block-progression-dimension	Text
block-progression-dimension.maximum	Text
block-progression-dimension.minimum	Text
block-progression-dimension.optimum	Text
border	Text
border-after-color	Color
border-after-precedence	Text
border-after-style	Enum
border-after-width	Int

Attribute	Data type
border-after-width.conditionality	Enum
border-after-width.length	Text
border-before-color	Color
border-before-precedence	Text
border-before-style	Enum
border-before-width	Int
border-before-width.conditionality	Enum
border-before-width.length	Text
border-bottom	Text
border-bottom-left-color	Color
border-bottom-left-corner-style	Enum
border-bottom-left-corner-visible	Bool
border-bottom-left-radius	Int
border-bottom-left-style	Enum
border-bottom-left-width	Int
border-bottom-right-color	Color
border-bottom-right-corner-style	Enum
border-bottom-right-corner-visible	Bool
border-bottom-right-radius	Int
border-bottom-right-style	Enum
border-bottom-right-width	Int
border-bottom-width.conditionality	Enum
border-bottom-width.length	Text
border-collapse	Text
border-end-color	Color

Attribute	Data type
border-end-precedence	Text
border-end-style	Enum
border-end-width	Int
border-end-width.conditionality	Enum
border-end-width.length	Text
border-left	Text
border-left-width.conditionality	Enum
border-left-width.length	Text
border-right	Text
border-right-width.conditionality	Enum
border-right-width.length	Text
border-separation	Text
border-separation-block-progression-dimension	Text
border-separation-inline-progression-dimension	Text
border-spacing	Text
border-start-color	Color
border-start-precedence	Text
border-start-style	Enum
border-start-width	Int
border-start-width.conditionality	Enum
border-start-width.length	Text
border-top	Text
border-top-left-color	Color
border-top-left-corner-style	Enum
border-top-left-corner-visible	Bool

Attribute	Data type
border-top-left-radius	Int
border-top-left-style	Enum
border-top-left-width	Int
border-top-right-color	Color
border-top-right-corner-style	Enum
border-top-right-corner-visible	Bool
border-top-right-radius	Int
border-top-right-style	Enum
border-top-right-width	Int
border-top-width.conditionality	Enum
border-top-width.length	Text
bottom	Text
break-after	Enum
break-before	Enum
caption-side	Text
clear	Enum
clip	Text
country	Text
cue	Text
cue-after	Text
cue-before	Text
direction	Enum
display-align	Enum
dominant-baseline	Enum
elevation	Text

Attribute	Data type
<code>empty-cells</code>	Text
<code>float</code>	Enum
<code>font</code>	Text
<code>font-selection-strategy</code>	Enum
<code>font-size-adjust</code>	Text
<code>font-stretch</code>	Enum
<code>font-variant</code>	Enum
<code>glyph-orientation-horizontal</code>	Enum
<code>glyph-orientation-vertical</code>	Enum
<code>hyphenate</code>	Text
<code>hyphenation-character</code>	Text
<code>hyphenation-keep</code>	Enum
<code>hyphenation-ladder-count</code>	Text
<code>hyphenation-push-character-count</code>	Text
<code>hyphenation-remain-character-count</code>	Text
<code>inline-progression-dimension</code>	Text
<code>inline-progression-dimension.maximum</code>	Text
<code>inline-progression-dimension.minimum</code>	Text
<code>inline-progression-dimension.optimum</code>	Text
<code>intrusion-displace</code>	Enum
<code>keep-together-within-column</code>	Enum
<code>keep-together-within-line</code>	Enum
<code>keep-together-within-page</code>	Enum
<code>keep-with-next</code>	Enum
<code>keep-with-next.within-column</code>	Enum

Attribute	Data type
keep-with-next.within-line	Enum
keep-with-next.within-page	Enum
keep-with-previous	Enum
keep-with-previous.within-column	Enum
keep-with-previous.within-line	Enum
keep-with-previous.within-page	Enum
language	Text
last-line-end-indent	Int
leader-alignment	Enum
leader-length	Text
leader-length.maximum	Text
leader-length.minimum	Text
leader-length.optimum	Text
leader-pattern	Enum
leader-pattern-width	Text
left	Text
letter-spacing.conditionality	Enum
letter-spacing.maximum	Int
letter-spacing.minimum	Int
letter-spacing.optimum	Int
letter-spacing.precedence	Int
linefeed-treatment	Enum
line-height.conditionality	Enum
line-height.maximum	Int
line-height.minimum	Int

Attribute	Data type
line-height.optimum	Int
line-height.precedence	Int
line-height-shift-adjustment	Enum
line-stacking-strategy	Enum
margin	Int
margin-after	Int
margin-before	Int
margin-end	Int
margin-start	Int
max-height	Int
max-width	Int
min-height	Int
min-width	Int
orphans	Int
overflow	Enum
padding	Text
padding-after	Text
padding-after.conditionality	Enum
padding-after.length	Text
padding-before	Text
padding-before.conditionality	Enum
padding-before.length	Text
padding-bottom	Text
padding-bottom.conditionality	Enum
padding-bottom.length	Text

Attribute	Data type
padding-end	Text
padding-end.conditionality	Enum
padding-end.length	Text
padding-left	Text
padding-left.conditionality	Enum
padding-left.length	Text
padding-right	Text
padding-right.conditionality	Enum
padding-right.length	Text
padding-start	Text
padding-start.conditionality	Enum
padding-start.length	Text
padding-top	Text
padding-top.conditionality	Enum
padding-top.length	Text
page-break-after	Enum
page-break-before	Enum
page-break-inside	Enum
pause	Text
pause-after	Text
pause-before	Text
pitch	Text
pitch-range	Text
play-during	Text
position	Text

Attribute	Data type
provisional-distance-between-starts	Text
provisional-label-separation	Text
reference-orientation	Enum
relative-align	Enum
relative-position	Text
richness	Text
right	Text
role	Text
rule-style	Enum
rule-thickness	Text
score-spaces	Bool
script	Text
source-document	Text
space-after.conditionality	Int
space-after.maximum	Int
space-after.minimum	Int
space-after.optimum	Int
space-after.precedence	Int
space-before.conditionality	Int
space-before.maximum	Int
space-before.minimum	Int
space-before.optimum	Int
space-before.precedence	Int
space-end	Int
space-end.conditionality	Enum

Attribute	Data type
space-end.maximum	Int
space-end.minimum	Int
space-end.optimum	Int
space-end.precedence	Int
space-start	Int
space-start.conditionality	Enum
space-start.maximum	Int
space-start.minimum	Int
space-start.optimum	Int
space-start.precedence	Int
span	Enum
speak	Enum
speak-header	Enum
speak-numeral	Enum
speak-punctuation	Enum
speech-rate	Text
stress	Text
suppress-at-line-break	Enum
table-layout	Text
table-omit-footer-at-break	Bool
table-omit-header-at-break	Bool
target-presentation-context	Text
target-processing-context	Text
target-stylesheet	Text
text-align-last	Enum

Attribute	Data type
text-altitude	Text
text-depth	Text
text-shadow	Text
text-transform	Enum
top	Text
treat-as-word-space	Enum
unicode-bidi	Enum
vertical-align	Text
visibility	Enum
voice-family	Text
volume	Text
white-space	Enum
white-space-collapse	Bool
white-space-treatment	Enum
widows	Int
word-spacing	Int
word-spacing.conditionality	Enum
word-spacing.maximum	Int
word-spacing.minimum	Int
word-spacing.optimum	Int
word-spacing.precedence	Int
wrap-option	Enum
writing-mode	Enum
z-index	Text

# Chapter 5: Sample DXF

The following sample DXF can be used as a reference to help understand the various DXF structures.

This chapter contains the following samples:

You can also create your own sample DXF file to see the structure for existing objects that are similar to objects you want to import.

For more information about creating a sample DXF file, see “[Creating a Sample DXF File to Help You Understand How an Existing Design is Constructed](#)” on page 17.

- “[Formatted Text for Run-Time Import](#)” on the next page
- “[Library Component](#)” on page 675
- “[Section with Paragraphs](#)” on page 677
- “[Application with Document References](#)” on page 683
- “[Paragraph](#)” on page 684
- “[Page with Embedded Objects, a Table, and Live Properties](#)” on page 686
- “[Container Design Using a Grid Layout](#)” on page 698

## 5.1 Formatted Text for Run-Time Import

The following sample represents formatted text that can be imported into a design at run time using a DXF placeholder variable.

```
<?xml version="1.0" encoding="Windows-1252" standalone="no"?>
<!DOCTYPE dlg:dxftext SYSTEM "ExstreamObjectAndContent.dtd">
<dlg:dxftext>
    <fo:flow height="755.00pt" margin-bottom="0.00pt" margin-left=
        "0.00pt" margin-right="0.00pt" margin-top="0.00pt" width="570.00pt">
        <fo:block line-height="10.08pt" space-before="0.00pt"
            start-indent="0.72pt" text-align="justify">
            <dlg:tab-ruler id="1" list-type="none">
                <dlg:tab-stop tab-align="left" tab-char="0" tab-indent=
                    "36.00pt" />
                <dlg:tab-stop tab-align="left" tab-char="0" tab-indent=
                    "100.00pt" />
                <dlg:tab-stop tab-align="left" tab-char="0" tab-indent=
                    "144.00pt" />
            </dlg:tab-ruler>
            <fo:inline font-family="Times New Roman" font-size="10.00pt"
                text-decoration="underline">OWNERSHIP OF PROPERTY:
            </fo:inline>
            <fo:inline font-family="Times New Roman" font-size="10.00pt">
                Borrower represents that the Property is owned by Borrower
                free and clear of all liens and encumbrances except those of
                which Borrower has informed Lender in writing. Prior to any
                default, Borrower may      keep and use the Property at
                Borrower's own risk, subject to the provisions of the Uniform
                Commercial Code.</fo:inline>
        </fo:block>
        <fo:block line-height="10.08pt" space-before="5.04pt"
            start-indent="0.72pt" text-align="left">
            <dlg:tab-ruler id="1" list-type="none">
                <dlg:tab-stop tab-align="left" tab-char="0" tab-indent=
                    "72.00pt" />
                <dlg:tab-stop tab-align="left" tab-char="0" tab-indent=
                    "144.00pt" />
                <dlg:tab-stop tab-align="left" tab-char="0" tab-indent=
                    "216.00pt" />
            </dlg:tab-ruler>
            <fo:inline font-family="Times New Roman" font-size="10.00pt"
                text-decoration="underline">USE OF PROPERTY: </fo:inline>
            <fo:inline font-family="Times New Roman" font-size="10.00pt">
                Borrower will not sell, lease, encumber, or otherwise dispose
                of the Property without Lender's prior written consent.
            </fo:inline>
        </fo:block>
    </fo:flow>
</dlg:dxftext>
```

Borrower will keep the Property at Borrower's address (as shown on page 1) unless Lender has granted permission in writing for the Property to be located elsewhere. The Property will be used only in the state in which Borrower lives unless the Property is a motor vehicle, in which case it will be used outside the state only in the course of Borrower's normal use of the Property.</fo:inline>

</fo:block>

<fo:block line-height="10.08pt" space-before="5.28pt" start-indent="0.72pt" text-align="justify">

<fo:inline font-family="Times New Roman" font-size="10.00pt" text-decoration="underline">TAXES AND FEES: </fo:inline>

<fo:inline font-family="Times New Roman" font-size="10.00pt"> Borrower will pay all taxes, assessments, and other fees payable on the Property, including, but not limited to any fee required by a public official to record the satisfaction of this loan.</fo:inline>

</fo:block>

</fo:flow>

</dlg:dxftext>

## 5.2 Library Component

The following sample represents a text box Library component.

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<!DOCTYPE dlg:library-component SYSTEM "ExstreamObjectAndContent.dtd">
<dlg:library-component xmlns:dlg=
"http://www.hplexstream.com/2009/XSL/HPEXstream" locked-position="false"
locked-position-x="0" locked-position-y="0" locked-rotation="false"
locked-rule="false" locked-size="false" page-count="0" schemaVersion=
"2.0" stylesheet="StyleSheet|0|" usage-rule="UsageRule|0|" xmlns:dx=-
"http://www.hplexstream.com/2009/XSL/DXF" xmlns:fo=
"http://www.w3.org/1999/XSL/Format">

<dlg:basic folder="Folder|2000000000|Exstream" oid="4">
    <dlg:name>Text box component</dlg:name>
    <dlg:description>This is a sample text box Library component.
    </dlg:description>
</dlg:basic>

<fo:declarations>
    <dlg:tab-ruler default-tab="0.00lu" id="0" list-type="none"
    number-indent="0" number-string="" number-type="num"
    user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="0.00lu" id="1" list-type="none"
    number-indent="0" number-string="" number-type="num"
    user-set-color="false" user-set-type="false"/>
</fo:declarations>

<dlg:object>
    <dlg:text balance-cols="false" can-split="false"
    column-color-pen="rgb(0,0,0)" column-pen-style="none"
    column-pen-width="1lu" columns="1" corner-size="0pt"
    current-angle="0" delay-comp="none" design-var-ndx="0"
    fit-max-point="0" fit-min-point="0" fit-step="5" fit-text="none"
    fixed-height="false" flip-h="false" flip-v="false" flow-around=
    "no" flow-break="auto" frame-style="frame" gutter-size="0lu"
    h-auto-size="false" hide-empty="false" hyperlink-new-window=
    "false" ignore-relative="no" kern-amount="120" kerning="0"
    link-type="static" lock-proportions="false" meta-props-language=
    "default" meta-props-options="read-object-text" meta-props-order=
    "0" object-prerotated="true" override-margins="false"
    pos-rel-to-above="0" reference-name="AAA1" shadow="none"
    static-hyperlink="" unicode-digits="ascii" unicode-script="latin"
    v-auto-size="false" variable-hyperlink="Variable|0|" widows="2"
    wrap-around-other="none" xy-font-scaling="false">
```

```
<dlg:rect bottom="55.01pt" left="0.00pt" right="110.02pt" top="32.98pt"/>
<fo:flow display-align="auto" height="306.00lu" margin-bottom="0.00lu" margin-left="0.00lu" margin-right="0.00lu" margin-top="0.00lu" width="1528.00lu">
    <fo:block end-indent="0lu" is-comment="false" keep-together="auto" keep-with-next="auto" line-height="153lu" line-spacing="exact" space-after="0lu" space-before="0lu" start-indent="0lu" tab-ruler="0" text-align="left" text-indent="0lu" usage-rule="Rule|0|">
        <fo:inline color="" font-family="Times New Roman" font-size="11.00pt" font-style="normal" is-comment="false" letter-spacing="0.00pt" page-break-before="auto" text-decoration="none">
            Have a nice day.</fo:inline>
        </fo:inline>
    </fo:block>
    <fo:block end-indent="0lu" is-comment="false" keep-together="auto" keep-with-next="auto" line-height="153lu" line-spacing="exact" space-after="0lu" space-before="0lu" start-indent="0lu" tab-ruler="1" text-align="left" text-indent="0lu" usage-rule="Rule|0|">
        <fo:inline color="" font-family="Times New Roman" font-size="11.00pt" font-style="normal" is-comment="false" letter-spacing="0.00pt" page-break-before="auto" text-decoration="none">Sincerely,</fo:inline>
    </fo:block>
</fo:flow>
</dlg:text>
</dlg:object>

</dlg:library-component>
```

## 5.3 Section with Paragraphs

The following sample represents a section that contains paragraphs, as well as variable definitions and variables used within the text.

```
<!DOCTYPE dlg:section SYSTEM "ExstreamObjectAndContent.dtd">
<dlg:section xmlns:dlg="http://www.exstream.com/2003/XSL/Dialogue"
  xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:dx="http://www.exstream.com/2005/XSL/Dialogue">
  <dlg:basic>
    <dlg:name>Sample section</dlg:name>
    <dlg:description>This is a sample section with paragraphs.</dlg:description>
  </dlg:basic>
  <dlg:paragraph>
    <dlg:basic>
      <dlg:name>ADDRESS</dlg:name>
    </dlg:basic>
    <dlg:object>
      <dlg:text reference-name="ADDRESS">
        <dlg:rect bottom="33.00pt" left="0.00pt" right="275.00pt" top="0.00pt"/>
        <fo:flow height="33.00pt" margin-bottom="0.00pt" margin-left="99.00pt" margin-right="0.00pt" margin-top="0.00pt" width="275.00pt">
          <fo:block line-height="11.00pt" text-align="left">
            <fo:inline font-family="Arial" font-size="11.00pt">
              Acme Insurance of South Carolina&#xD;P. O. Box 555555</fo:inline>
            </fo:inline>
          </fo:block>
          <fo:block line-height="11.00pt" text-align="left">
            <fo:inline font-family="Arial" font-size="11.00pt">Columbia, SC 29255-5555</fo:inline>
          </fo:block>
        </fo:flow>
      </dlg:text>
    </dlg:object>
  </dlg:paragraph>
  <dlg:paragraph>
    <dlg:basic>
      <dlg:name>Letter Header</dlg:name>
    </dlg:basic>
    <fo:declarations>
      <dlg:variables>
        <dlg:variable multi-valued="false" data-type="date" format="106">
      </dlg:variables>
    </fo:declarations>
  </dlg:paragraph>
</dlg:section>
```

```
<dlg:basic>
    <dlg:name>LETTERDATE</dlg:name>
</dlg:basic>
</dlg:variable>
<dlg:variable multi-valued="false" data-type="string"
format="2">
    <dlg:basic>
        <dlg:name>SUBS_NAME_FIRST</dlg:name>
    </dlg:basic>
</dlg:variable>
<dlg:variable multi-valued="false" data-type="string"
format="2">
    <dlg:basic>
        <dlg:name>SUBS_NAME_MID</dlg:name>
    </dlg:basic>
</dlg:variable>
<dlg:variable multi-valued="false" data-type="string"
format="2">
    <dlg:basic>
        <dlg:name>SUBS_NAME_LAST</dlg:name>
    </dlg:basic>
</dlg:variable>
<dlg:variable multi-valued="false" data-type="string"
format="2">
    <dlg:basic>
        <dlg:name>SUBS_ADD1</dlg:name>
    </dlg:basic>
</dlg:variable>
<dlg:variable multi-valued="false" data-type="string"
format="2">
    <dlg:basic>
        <dlg:name>SUBS_ADD2</dlg:name>
    </dlg:basic>
</dlg:variable>
<dlg:variable multi-valued="false" data-type="string"
format="2">
    <dlg:basic>
        <dlg:name>SUBS_CITY</dlg:name>
    </dlg:basic>
</dlg:variable>
<dlg:variable multi-valued="false" data-type="string"
format="2">
    <dlg:basic>
        <dlg:name>SUBS_STATE</dlg:name>
    </dlg:basic>
</dlg:variable>
<dlg:variable multi-valued="false" data-type="string"
format="2">
    <dlg:basic>
```

```
        <dlg:name>SUBS_ZIP</dlg:name>
    </dlg:basic>
</dlg:variable>
<dlg:variable multi-valued="false" data-type="string"
format="2">
    <dlg:basic>
        <dlg:name>SUBS_ID</dlg:name>
    </dlg:basic>
</dlg:variable>
<dlg:variable multi-valued="false" data-type="string"
format="2">
    <dlg:basic>
        <dlg:name>SAL</dlg:name>
    </dlg:basic>
</dlg:variable>
<dlg:variable multi-valued="false" data-type="string"
format="2">
    <dlg:basic>
        <dlg:name>REPNAME</dlg:name>
    </dlg:basic>
</dlg:variable>
</dlg:variables>
</fo:declarations>
<dlg:object>
    <dlg:text reference-name="LtrHdr">
        <dlg:rect bottom="440.00pt" left="0.00pt"
right="462.00pt" top="0.00pt"/>
        <fo:flow height="440.00pt" margin-bottom="0.00pt"
margin-left="0.00pt" margin-right="0.00pt" margin-top=
"0.00pt" width="462.00pt">
            <fo:block line-height="11.00pt" text-align="left">
                <fo:inline font-family="Arial" font-size=
"11.00pt">
                    <dlg:variable-use varuse-format="106"
varuse-length="0" varuse-number-of-digits="0"
varuse-variable="Variable|0|LETTERDATE"/>
&lt;LETTERDATE&gt; </fo:inline>
                </fo:block>
                <fo:block line-height="11.00pt" text-align="left"/>
                <fo:block line-height="11.00pt" text-align="left">
                    <fo:inline font-family="Arial" font-size=
"11.00pt">
                        <dlg:variable-use varuse-format="2"
varuse-length="0" varuse-number-of-digits="0"
varuse-variable="Variable|0|SUBS_NAME_FIRST"/>
&lt;SUBS_NAME_FIRST&gt;</fo:inline>
                    <fo:inline font-family="Arial" font-size=
"11.00pt"/>
                    <fo:inline font-family="Arial" font-size=
```

```
"11.00pt">
    <dlg:variable-use varuse-format="2"
        varuse-length="0" varuse-number-of-digits="0"
        varuse-variable="Variable|0|SUBS_NAME_MID"/>
<&lt;SUBS_NAME_MID&gt;</fo:inline>
    <fo:inline font-family="Arial" font-size=
        "11.00pt"/>
    <fo:inline font-family="Arial" font-size=
        "11.00pt">
        <dlg:variable-use varuse-format="2"
            varuse-length="0" varuse-number-of-digits="0"
            varuse-variable="Variable|0|SUBS_NAME_LAST"/>
<&lt;SUBS_NAME_LAST&gt;</fo:inline>
    <fo:inline font-family="Arial" font-size=
        "11.00pt">
        &#xD;</fo:inline>
    <fo:inline font-family="Arial" font-size=
        "11.00pt">
        <dlg:variable-use varuse-format="2"
            varuse-length="0" varuse-number-of-digits="0"
            varuse-variable="Variable|0|SUBS_ADD1"/>
<&lt;SUBS_ADD1&gt;</fo:inline>
    <fo:inline font-family="Arial" font-size=
        "11.00pt">
        &#xD;</fo:inline>
    <fo:inline font-family="Arial" font-size=
        "11.00pt">
        <dlg:variable-use varuse-format="2"
            varuse-length="0" varuse-number-of-digits="0"
            varuse-variable="Variable|0|SUBS_ADD2"/>
<&lt;SUBS_ADD2&gt;</fo:inline>
    </fo:block>
    <fo:block line-height="11.00pt" text-align="left">
        <fo:inline font-family="Arial" font-size=
            "11.00pt">
            <dlg:variable-use varuse-format="2"
                varuse-length="0" varuse-number-of-digits="0"
                varuse-variable="Variable|0|SUBS_CITY"/>
<&lt;SUBS_CITY&gt;</fo:inline>
        <fo:inline font-family="Arial" font-size=
            "11.00pt">,
        </fo:inline>
        <fo:inline font-family="Arial" font-size=
            "11.00pt">
            <dlg:variable-use varuse-format="2"
                varuse-length="0" varuse-number-of-digits="0"
                varuse-variable="Variable|0|SUBS_STATE"/>
<&lt;SUBS_STATE&gt;</fo:inline>
        <fo:inline font-family="Arial" font-size=
```

```
"11.00pt"/>
<fo:inline font-family="Arial" font-size=
"11.00pt">
    <dlg:variable-use varuse-format="2"
        varuse-length="0" varuse-number-of-digits="0"
        varuse-variable="Variable|0|SUBS_ZIP"/>
&lt;SUBS_ZIP&gt;</fo:inline>
</fo:block>
<fo:block line-height="11.00pt" text-align="left"/>
<fo:block line-height="11.00pt" text-align="left"/>
<fo:block line-height="11.00pt" text-align="left">
    <fo:inline font-family="Arial" font-size=
    "11.00pt">ID NO.: </fo:inline>
    <fo:inline font-family="Arial" font-size=
    "11.00pt">
        <dlg:variable-use varuse-format="2"
            varuse-length="0" varuse-number-of-digits="0"
            varuse-variable="Variable|0|SUBS_ID"/>
&lt;SUBS_ID&gt;</fo:inline>
</fo:block>
<fo:block line-height="11.00pt" text-align="left">
    <fo:inline font-family="Arial" font-size=
    "11.00pt">Dear </fo:inline>
    <fo:inline font-family="Arial" font-size=
    "11.00pt">
        <dlg:variable-use varuse-format="2"
            varuse-length="0" varuse-number-of-digits="0"
            varuse-variable="Variable|0|SAL"/>
&lt;SAL&gt;</fo:inline>
    <fo:inline font-family="Arial" font-size=
    "11.00pt"/>
    <fo:inline font-family="Arial" font-size=
    "11.00pt">
        <dlg:variable-use varuse-format="2"
            varuse-length="0" varuse-number-of-digits="0"
            varuse-variable="Variable|0|SUBS_NAME_LAST"/>
&lt;SUBS_NAME_LAST&gt;</fo:inline>
    <fo:inline font-family="Arial" font-size=
    "11.00pt":>
        </fo:inline>
    </fo:block>
    </fo:flow>
    </dlg:text>
</dlg:object>
</dlg:paragraph>    <dlg:paragraph>
<dlg:basic>
    <dlg:name>Closing</dlg:name>
</dlg:basic>
<dlg:object>
```

```
<dlg:text reference-name="Closing">
  <dlg:rect bottom="22.00pt" left="0.00pt" right=
  "110.00pt" top="0.00pt"/>
  <fo:flow height="22.00pt" margin-bottom="0.00pt"
  margin-left="0.00pt" margin-right="0.00pt" margin-top=
  "0.00pt" width="110.00pt">
    <fo:block line-height="11.00pt" text-align="left">
      <fo:inline font-family="Arial" font-size=
      "11.00pt">Have a nice day.</fo:inline>
    </fo:block>
    <fo:block line-height="11.00pt" text-align="left">
      <fo:inline font-family="Arial" font-size=
      "11.00pt">Sincerely,</fo:inline>
    </fo:block>
  </fo:flow>
</dlg:text>
</dlg:object>
</dlg:paragraph>
</dlg:section>
```

## 5.4 Application with Document References

The following sample represents an application that is imported with references to existing documents.

It is assumed that the Design Manager Library already contains the following documents:

- "SampleDoc-1" with internal ID 123
- "SampleDoc-2" with internal ID 124

```
<?xml version="1.0" encoding="Windows-1252" standalone="no"?>
<!DOCTYPE dlg:application SYSTEM "ExstreamObjectAndContent.dtd">
<dlg:application
    xmlns:dlg="http://engage.opentext.com/products/exstream"
    xmlns:fo="http://www.w3.org/1999/XSL/Format"
    xmlns:dx="http://www.exstream.com/2005/XSL/Dialogue">
    <dlg:basic>
        <dlg:name>Sample application</dlg:name>
        <dlg:description>This is a sample application that is imported
            with references to existing documents.</dlg:description>
    </dlg:basic>
    <dlg:document-reference document-ref="Document|123|SampleDoc-1"/>
    <dlg:document-reference document-ref="Document|124|SampleDoc-2"/>
</dlg:application>
```

## 5.5 Paragraph

The following sample represents a paragraph object.

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<!DOCTYPE dlg:paragraph SYSTEM "ExstreamObjectAndContent.dtd">
<dlg:paragraph xmlns:dlg=
"http://www.hplexstream.com/2009/XSL/HPEXstream" aggreg-data-enable="no"
allow-doc-checksum="false" bottom-flow-margin="0" can-be-used="true"
can-split-text="false" default-as-background="true" design-resolution=
"300" flow-to-page="Page|0|" flow-type="none" internet="false"
jurisdiction-use="all" keep-with-next="false" keep-with-previous=
"false" link-type="none" message-template="MessageTemplate|0|"
message-type="MessageType|0|" meta-props-language="default"
meta-props-options="read-object-text" meta-props-order="0" page-duplex=
>false" page-orientation="portrait" page-placement="any" page-template=
"PageTemplate|0|" page-type="paragraph" paper-type="PaperType|0|"
renumber-text="false" schemaVersion="2.0" send-default="true" size=
"8500.00 367.00" stylesheet="StyleSheet|0|" top-flow-margin="0"
track-begin="" track-end="" tracking-level="none" type="" url=" "
usage-rule="UsageRule|0|" user-identifier="" variable-hyperlink=
"Variable|0|" widow-orphan="2" xmlns:dx=
"http://www.hplexstream.com/2009/XSL/DXF" xmlns:fo=
"http://www.w3.org/1999/XSL/Format">
<dlg:basic folder="Folder|200000000|Exstream" oid="35">
    <dlg:name>Sample paragraph</dlg:name>
    <dlg:description></dlg:description>
</dlg:basic>
<dlg:message-content xmlns:fo="http://www.hplexstream.com/2009/XSL/DXF">
    <fo:declarations>
        <dlg:tab-ruler default-tab="247.00lu" id="0" list-type="none"
            number-indent="0" number-string="" number-type="num"
            user-set-color="false" user-set-type="false"/>
    </fo:declarations>
    <dlg:object>
        <dlg:text can-split="false" columns="1" corner-size="4pt"
            current-angle="0" delay-comp="none" design-var-ndx="0" flip-h=
            "false" flip-v="false" flow-around="no" flow-break="auto"
            frame-style="frame" gutter-size="0lu" h-auto-size="false"
            hyperlink-new-window="false" ignore-relative="no" language=
            "Language|0|" link-type="static" lock-proportions="false"
            meta-props-language="default" meta-props-options=
            "read-object-text" meta-props-order="0" pos-rel-to-above="0"
            reference-name="Text Message" shadow="none" static-hyperlink=""
            v-auto-size="false" variable-hyperlink="Variable|0|">
            <dlg:rect bottom="0.00pt" left="0.00pt" right="0.00pt" top=
```

```
"0.00pt"/>
<fo:flow display-align="auto" height="167.00lu" margin-bottom=
"100.00lu" margin-left="100.00lu" margin-right="100.00lu"
margin-top="100.00lu" width="8300.00lu">
  <fo:block end-indent="0lu" is-comment="false" keep-together=
"auto" keep-with-next="auto" line-height="0lu" line-spacing=
"single" space-after="0lu" space-before="0lu" start-indent=
"0lu" tab-ruler="0" text-align="left" text-indent="0lu"
usage-rule="Rule|0|">
    <fo:inline color="" font-family="Times New Roman"
font-size="10.00pt" font-style="normal" is-comment=
"false" letter-spacing="0.00pt" page-break-before="auto"
text-decoration="none">lorem ipsum</fo:inline>
  </fo:block>
</fo:flow>
</dlg:text>
</dlg:object>
</dlg:message-content>
</dlg:paragraph>
```

## 5.6 Page with Embedded Objects, a Table, and Live Properties

The following sample represents a page that contains text boxes that themselves contain embedded objects, as well as a table. Additionally, some of the objects contain Live properties. In particular, the embedded text box requires a change by the end user in LiveEditor.

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<!DOCTYPE dlg:page SYSTEM "ExstreamObjectAndContent.dtd">
<dlg:page xmlns:dlg="http://www.hplexstream.com/2009/XSL/HPExstream"
allow-doc-checksum="false" flow-to-page="Page|0|" flow-type="none"
has-footnote="false" has-index="false" has-toc="false"
meta-props-language="default" meta-props-options="read-object-text"
meta-props-order="0" page-can-overflow="false" page-duplex="false"
page-in-sections="false" page-orientation="portrait" paper-type=
"PaperType|1|Statement 6.5 x 11.0" schemaVersion="2.0" stylesheet=
"StyleSheet|0|" xmlns:dxf="http://www.hplexstream.com/2009/XSL/DXF"
xmlns:fo="http://www.hplexstream.com/2009/XSL/DXF">

<dlg:basic folder="Folder|200000000|Exstream" oid="36">
    <dlg:name>Embed Test 1</dlg:name>
    <dlg:description/>
</dlg:basic>

<fo:declarations>
    <dlg:tab-ruler default-tab="247.00lu" id="0" list-type="none"
        number-indent="0" number-string="" number-type="num"
        user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="247.00lu" id="1" list-type="none"
        number-indent="0" number-string="" number-type="num"
        user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="247.00lu" id="2" list-type="none"
        number-indent="0" number-string="" number-type="num"
        user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="247.00lu" id="3" list-type="none"
        number-indent="0" number-string="" number-type="num"
        user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="247.00lu" id="4" list-type="none"
        number-indent="0" number-string="" number-type="num"
        user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="247.00lu" id="5" list-type="none"
        number-indent="0" number-string="" number-type="num"
        user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="247.00lu" id="6" list-type="none"
        number-indent="0" number-string="" number-type="num"
```

```
user-set-color="false" user-set-type="false"/> >
<dlg:tab-ruler default-tab="247.00lu" id="7" list-type="none"
number-indent="0" number-string="" number-type="num"
user-set-color="false" user-set-type="false"/> >
<dlg:tab-ruler default-tab="247.00lu" id="8" list-type="none"
number-indent="0" number-string="" number-type="num"
user-set-color="false" user-set-type="false"/> >
<dlg:tab-ruler default-tab="247.00lu" id="9" list-type="none"
number-indent="0" number-string="" number-type="num"
user-set-color="false" user-set-type="false"/> >
<dlg:tab-ruler default-tab="247.00lu" id="10" list-type="none"
number-indent="0" number-string="" number-type="num"
user-set-color="false" user-set-type="false"/> >
</fo:declarations>

<dlg:objects>
<dlg:text balance-cols="false" can-split="false" column-color-pen
="rgb(0,0,0)" column-pen-style="none" column-pen-width="1lu"
columns="1" corner-size="4pt" current-angle="0" delay-comp="none"
design-var-ndx="0" fit-max-point="0" fit-min-point="0" fit-step=
"5" fit-text="none" fixed-height="false" flip-h="false" flip-v=
"false" flow-around="no" flow-break="auto" frame-style="frame"
gutter-size="0lu" h-auto-size="false" hide-empty="false"
hyperlink-new-window="false" ignore-relative="no" kern-amount=
"120" kerning="0" language="Language|0|" link-type="static"
lock-proportions="false" meta-props-language="default"
meta-props-options="read-object-text" meta-props-order="0"
object-prerotated="true" override-margins="false"
pos-rel-to-above="0" ref-id="80000" reference-name="Text Box"
shadow="none" static-hyperlink="" unicode-digits="ascii"
unicode-script="latin" v-auto-size="false" variable-hyperlink=
"Variable|0|" widows="2" wrap-around-other="none" xy-font-scaling
="false">
<dlg:rect bottom="252.00pt" left="63.00pt" right="450.07pt"
top="45.00pt"/>
<fo:flow display-align="auto" height="2875.00lu" margin-bottom=
"0.00lu" margin-left="0.00lu" margin-right="0.00lu"
margin-top="0.00lu" width="5376.00lu">
<fo:block end-indent="0lu" is-comment="false"
keep-together="auto" keep-with-next="auto" line-height=
"0lu" line-spacing="single" space-after="0lu"
space-before="0lu" start-indent="0lu" tab-ruler="0"
text-align="left" text-indent="0lu" usage-rule="Rule|0|">
<fo:inline color="" font-family="Times New Roman"
font-size="18.00pt" font-style="normal" is-comment=
"false" letter-spacing="0.00pt" page-break-before=
"auto" text-decoration="none">There is a text box
embedded in this text box</fo:inline>
</fo:block>
```

```
<fo:block end-indent="0lu" is-comment="false"
keep-together="auto" keep-with-next="auto" line-height=
"0lu" line-spacing="single" space-after="0lu"
space-before="0lu" start-indent="0lu" tab-ruler="1"
text-align="left" text-indent="0lu" usage-rule="Rule|0|">
    <fo:inline color="" font-family="Times New Roman"
font-size="18.00pt" font-style="normal" is-comment=
>false" letter-spacing="0.00pt" page-break-before=
"auto" text-decoration="none"/>
</fo:block>
<fo:block end-indent="0lu" is-comment="false"
keep-together="auto" keep-with-next="auto" line-height=
"0lu" line-spacing="single" space-after="0lu"
space-before="0lu" start-indent="0lu" tab-ruler="2"
text-align="left" text-indent="0lu" usage-rule="Rule|0|">
    <fo:inline color="" font-family="Times New Roman"
font-size="18.00pt" font-style="normal" is-comment=
>false" letter-spacing="0.00pt" page-break-before=
"auto" text-decoration="none"/>
<dlg:embedded-object docx-anchor="false" embed-anchor=
"bottom-left" embed-method="inline" height="1000"
line-color="rgb(0,0,0)" line-weight="1" lower-left-X=
"0" lower-left-Y="1587" offset-X="0" offset-Y="0"
width="1000">
    <dlg:text balance-cols="false" can-split="false"
column-color-pen="rgb(0,0,0)" column-pen-style=
"none" column-pen-width="1lu" columns="1"
corner-size="4pt" current-angle="0" delay-comp=
"none" design-var-ndx="0" fit-max-point="0"
fit-min-point="0" fit-step="5" fit-text="none"
fixed-height="false" flip-h="false" flip-v="false"
flow-around="no" flow-break="auto" frame-style=
"frame" gutter-size="0lu" h-auto-size="false"
hide-empty="false" hyperlink-new-window="false"
ignore-relative="ignore" kern-amount="120"
kerning="0" language="Language|0|" link-type=
"static" lock-proportions="false"
meta-props-language="default" meta-props-options=
"read-object-text" meta-props-order="0"
object-prerotated="true" override-margins="false"
pen="true" pen-color="rgb(0,0,0)" pen-style=
"solid" pen-width="1lu" pos-rel-to-above="0"
ref-id="122001" reference-name="Text Box 2"
shadow="none" static-hyperlink="" unicode-digits=
"ascii" unicode-script="latin" v-auto-size="false"
variable-hyperlink="Variable|0|" widows="2"
wrap-around-other="none" xy-font-scaling="false">
        <dlg:live allow-form-insert="true" auto-size=
"true" can-be-moved="false" can-be-resized=
```

```
"false" can-be-rotated="false"
can-change-format="true"
can-change-properties="false"
can-change-text-properties="false"
can-do-object-properties="1" can-type="true"
comb-type="box" content-pick-type="none"
content-variable-index="0"
content-variable-oi="Variable|0|"
editable-area-name="" editing-change-type=
"required" enable-variable-oi="Variable|0|"
exclude-from-outline="false" fill-color=
"rgb(196,196,196)" form-field-library=
"Form Field|0|" form-field-source=
"application" form-height="200"
form-mask-name="" form-space="10" form-width=
"100" function-call-button-end="Function|0|"
function-call-button-start="Function|0|"
hidden-type="none" line-color="rgb(0,0,0)"
line-width="1" link-type="none"
list-can-multi-select="false" list-can-sort=
"false" list-display-variable="Variable|0|"
list-return-variable="Variable|0|" list-type=
"dropdown" live-caption-text=""
live-inheritance-type="always"
live-validation="default"
selection-prompt-type="object-name"
selector-value="" show-tab="true"
static-hyperlink="" tab-stop="true"
text-field-minimum-width="100"
text-field-type="text" tooltip=
"This is a tooltip" upload-prompt=""
variable-for-selector="Variable|0|"
variable-hyperlink="Variable|0|" want-fill=
>false"/>

<fo:flow display-align="auto" height=
"1000.00lu" margin-bottom="0.00lu"
margin-left="0.00lu" margin-right="0.00lu"
margin-top="0.00lu" width="1000.00lu">
    <fo:block end-indent="0lu" is-comment=
>false" keep-together="auto"
keep-with-next="auto" line-height="0lu"
line-spacing="single" space-after="0lu"
space-before="0lu" start-indent="0lu"
tab-ruler="3" text-align="left"
text-indent="0lu" usage-rule="Rule|0|">
        <fo:inline color="" font-family=
"Times New Roman" font-size="10.00pt"
```

```
        font-style="normal" is-comment="false"
        letter-spacing="0.00pt"
        page-break-before="auto"
        text-decoration="none"/>
    </fo:block>
</fo:flow>
</dlg:text>
</dlg:embedded-object>
</fo:block>
</fo:flow>
</dlg:text>
<dlg:text balance-cols="false" can-split="false"
column-color-pen="rgb(0,0,0)" column-pen-style="none"
column-pen-width="1lu" columns="1" corner-size="4pt"
current-angle="0" delay-comp="none" design-var-ndx="0"
fit-max-point="0" fit-min-point="0" fit-step="5" fit-text=
"none" fixed-height="false" flip-h="false" flip-v="false"
flow-around="no" flow-break="auto" frame-style="frame"
gutter-size="0lu" h-auto-size="false" hide-empty="false"
hyperlink-new-window="false" ignore-relative="no" kern-amount=
"120" kerning="0" language="Language|0|" link-type="static"
lock-proportions="false" meta-props-language="default"
meta-props-options="read-object-text" meta-props-order="0"
object-prerotated="true" override-margins="false"
pos-rel-to-above="0" ref-id="80001" reference-name="Text Box 3"
shadow="none" static-hyperlink="" unicode-digits="ascii"
unicode-script="latin" v-auto-size="false" variable-hyperlink=
"Variable|0|" widows="2" wrap-around-other="none"
xy-font-scaling="false">
    <dlg:rect bottom="405.00pt" left="54.00pt" right="431.93pt"
top="288.00pt"/>
    <fo:flow display-align="auto" height="1625.00lu"
margin-bottom="0.00lu" margin-left="0.00lu" margin-right=
"0.00lu" margin-top="0.00lu" width="5249.00lu">
        <fo:block end-indent="0lu" is-comment="false"
keep-together="auto" keep-with-next="auto" line-height=
"0lu" line-spacing="single" space-after="0lu"
space-before="0lu" start-indent="0lu" tab-ruler="4"
text-align="left" text-indent="0lu" usage-rule="Rule|0|">
            <fo:inline color="" font-family="Times New Roman"
font-size="18.00pt" font-style="normal" is-comment=
>false" letter-spacing="0.00pt" page-break-before=
"auto" text-decoration="none">There is a Shape
embedded in this text box</fo:inline>
        </fo:block>
        <fo:block end-indent="0lu" is-comment="false"
keep-together="auto" keep-with-next="auto" line-height=
"0lu" line-spacing="single" space-after="0lu"
space-before="0lu" start-indent="0lu" tab-ruler="5"
```

```
text-align="left" text-indent="0lu" usage-rule="Rule|0|">
    <fo:inline color="" font-family="Times New Roman"
    font-size="18.00pt" font-style="normal" is-comment=
    "false" letter-spacing="0.00pt" page-break-before=
    "auto" text-decoration="none"/>
</fo:block>
<fo:block end-indent="0lu" is-comment="false"
keep-together="auto" keep-with-next="auto" line-height=
"0lu" line-spacing="single" space-after="0lu"
space-before="0lu" start-indent="0lu" tab-ruler="6"
text-align="left" text-indent="0lu" usage-rule="Rule|0|">
    <fo:inline color="" font-family="Times New Roman"
    font-size="18.00pt" font-style="normal" is-comment=
    "false" letter-spacing="0.00pt" page-break-before=
    "auto" text-decoration="none"/>
<dlg:embedded-object docx-anchor="false" embed-anchor=
"bottom-left" embed-method="inline" height="500"
line-color="rgb(0,0,0)" line-weight="1" lower-left-X=
"0" lower-left-Y="1087" offset-X="0" offset-Y="0"
width="500">
    <dlg:shape brush="true" brush-fill-color=
    "rgb(128,255,128)" can-split="false" closed=
    "true" current-angle="0" delay-comp="none"
    design-var-ndx="0" flip-h="false" flip-v="false"
    flow-around="no" flow-break="auto" h-auto-size=
    "false" hyperlink-new-window="false"
    ignore-relative="ignore" ignore-shape-angle=
    "true" language="Language|0|" link-type="static"
    lock-proportions="false" meta-props-options=
    "do-not-read" pen="true" pen-color="rgb(0,0,0)"
    pen-style="solid" pen-width="1lu"
    pos-rel-to-above="0" ref-id="122002"
    reference-name="Shape" shadow="none"
    shape="arrow" static-hyperlink="" v-auto-size=
    "false" variable-hyperlink="Variable|0|">
        <dlg:rect bottom="358.06pt" left="54.00pt"
        right="90.00pt" top="322.06pt"/>
    </dlg:shape>
</dlg:embedded-object>
</fo:block>
</fo:flow>
</dlg:text>
<dlg:text balance-cols="false" can-split="false"
column-color-pen="rgb(0,0,0)" column-pen-style="none"
column-pen-width="1lu" columns="1" corner-size="4pt"
current-angle="0" delay-comp="none" design-var-ndx="0"
fit-max-point="0" fit-min-point="0" fit-step="5" fit-text=
"none" fixed-height="false" flip-h="false" flip-v="false"
flow-around="no" flow-break="auto" frame-style="frame"
```

```
gutter-size="0lu" h-auto-size="false" hide-empty="false"
hyperlink-new-window="false" ignore-relative="no" kern-amount=
"120" kerning="0" language="Language|0|" link-type="static"
lock-proportions="false" meta-props-language="default"
meta-props-options="read-object-text" meta-props-order="0"
object-prerotated="true" override-margins="false"
pos-rel-to-above="0" ref-id="80002" reference-name="Text Box 4"
shadow="none" static-hyperlink="" unicode-digits="ascii"
unicode-script="latin" v-auto-size="false" variable-hyperlink=
"Variable|0|" widows="2" wrap-around-other="none"
xy-font-scaling="false">
    <dlg:rect bottom="616.54pt" left="33.05pt" right="455.98pt"
    top="490.54pt"/>
    <fo:flow display-align="auto" height="1750.00lu"
    margin-bottom="0.00lu" margin-left="0.00lu" margin-right=
    "0.00lu" margin-top="0.00lu" width="5874.00lu">
        <fo:block end-indent="0lu" is-comment="false"
        keep-together="auto" keep-with-next="auto" line-height=
        "0lu" line-spacing="single" space-after="0lu"
        space-before="0lu" start-indent="0lu" tab-ruler="7"
        text-align="left" text-indent="0lu" usage-rule="Rule|0|">
            <fo:inline color="" font-family="Times New Roman"
            font-size="10.00pt" font-style="normal" is-comment=
            "false" letter-spacing="0.00pt" page-break-before=
            "auto" text-decoration="none"/>
            <dlg:embedded-object docx-anchor="false" embed-anchor=
            "bottom-left" embed-method="inline" height="454"
            line-color="rgb(0,0,0)" line-weight="1" lower-left-X=
            "0" lower-left-Y="453" offset-X="0" offset-Y="0"
            width="5875">
                <dlg:table anchor="tl" can-split="false"
                current-angle="0" delay-comp="none"
                design-var-ndx="0" flip-h="false" flip-v="false"
                flow-around="no" flow-break="auto" h-auto-size=
                "false" ignore-relative="ignore" language=
                "Language|0|" lock-proportions="false"
                meta-props-language="default" meta-props-options=
                "read-object-text" meta-props-order="0"
                min-height="0" pen="true" pen-color="rgb(0,0,0)"
                pen-style="solid" pen-width="10lu"
                pos-rel-to-above="0" ref-id="122003"
                reference-name="Table" shadow="none" table-type=
                "simple" unicode-digits="ascii" unicode-script=
                "latin" v-auto-size="true">
                    <dlg:live allow-form-insert="true" auto-size=
                    "true" can-be-moved="false" can-be-resized=
                    "false" can-be-rotated="false"
                    can-change-format="true"
                    can-change-properties="false"
```

```
can-change-text-properties="false"
can-do-object-properties="1" can-type="true"
comb-type="box" content-pick-type="none"
content-variable-index="0"
content-variable-oi="Variable|0|"
editable-area-name="" editing-change-type=
"required" enable-variable-oi="Variable|0|"
exclude-from-outline="false" fill-color=
"rgb(196,196,196)" form-field-library=
"Form Field|0|" form-field-source=
"application" form-height="200"
form-mask-name="" form-space="10" form-width=
"100" function-call-button-end="Function|0|"
function-call-button-start="Function|0|"
hidden-type="none" line-color="rgb(0,0,0)"
line-width="1" link-type="none"
list-can-multi-select="false" list-can-sort=
"false" list-display-variable="Variable|0|"
list-return-variable="Variable|0|" list-type=
"dropdown" live-caption-text=""
live-inheritance-type="always"
live-validation="default"
selection-prompt-type="object-name"
selector-value="" show-tab="true"
static-hyperlink="" tab-stop="true"
text-field-minimum-width="100"
text-field-type="text" tooltip="fff"
upload-prompt="" variable-for-selector=
"Variable|0|" variable-hyperlink="Variable|0|"
want-fill="false"/>
<dlg:rect bottom="506.81pt" left="33.05pt"
right="456.05pt" top="490.46pt"/>
<fo:table-column border-after-style="none"
border-after-width="0lu" border-before-style=
"none" border-before-width="0lu"
border-bottom-style="none"
border-bottom-width="0lu" border-end-style=
"none" border-end-width="0lu"
border-left-style="none" border-left-width=
"0lu" border-right-style="none"
border-right-width="0lu" border-start-style=
"none" border-start-width="0lu"
border-top-style="none" border-top-width="0lu"
column-number="1" column-width="1959lu"
usage-rule="Rule|0|"/>
<fo:table-column border-after-style="none"
border-after-width="0lu" border-before-style=
"none" border-before-width="0lu"
border-bottom-style="none"
```

```
border-bottom-width="0lu" border-end-style=
"none" border-end-width="0lu"
border-left-style="none" border-left-width=
"0lu" border-right-style="none"
border-right-width="0lu" border-start-style=
"none" border-start-width="0lu"
border-top-style="none" border-top-width="0lu"
column-number="2" column-width="1958lu"
usage-rule="Rule|0|"/>
<fo:table-column border-after-style="none"
border-after-width="0lu" border-before-style=
"none" border-before-width="0lu"
border-bottom-style="none"
border-bottom-width="0lu" border-end-style=
"none" border-end-width="0lu"
border-left-style="none" border-left-width=
"0lu" border-right-style="none"
border-right-width="0lu" border-start-style=
"none" border-start-width="0lu"
border-top-style="none" border-top-width="0lu"
column-number="3" column-width="1958lu"
usage-rule="Rule|0|"/>
<fo:table-row auto-row-column-flow="none"
auto-row-filter="" auto-row-grouped="false"
auto-row-include-higher="none"
auto-row-include-level="1" auto-row-level="0"
auto-row-num-div-repeat-rows="4"
auto-row-num-repeat="1" auto-row-overlap=
"overlap-none" auto-row-page-begin="false"
auto-row-process="specified" auto-row-ref-var=
"Variable|0|" auto-row-repeat-headers="false"
auto-row-repeat-var-count="1"
auto-row-section-begin="false"
auto-row-section-max-rows="0"
auto-row-section-name=""
auto-row-section-orphan="1"
auto-row-section-ref-var="Variable|0|"
auto-row-section-use="always"
auto-row-serpentine-cells="1"
auto-row-special-row-props="none"
border-after-style="none" border-after-width=
"0lu" border-before-style="none"
border-before-width="0lu" border-bottom-style=
"none" border-bottom-width="0lu"
border-end-style="none" border-end-width="0lu"
border-left-style="none" border-left-width=
"0lu" border-right-style="none"
border-right-width="0lu" border-start-style=
"none" border-start-width="0lu"
```

```
border-top-style="none" border-top-width="0lu"
fixed-height="false" height="227lu" row-type=
"none" usage-rule="Rule|0|">
<fo:table-cell border-after-style="none"
border-after-width="0lu"
border-before-style="none"
border-before-width="0lu"
border-bottom-style="none"
border-bottom-width="0lu"
border-end-style="none"
border-end-width="0lu"
border-left-style="none"
border-left-width="0lu"
border-right-style="none"
border-right-width="0lu"
border-start-style="none"
border-start-width="0lu"
border-top-style="none"
border-top-width="0lu"
column-number="1" display-align="auto"
height="167lu" margin-bottom="50lu"
margin-left="50lu" margin-right="50lu"
margin-top="50lu" meta-props-language=
"default" meta-props-options=
"read-object-text" meta-props-order="1"
number-columns-spanned="1"
number-rows-spanned="1" width="1859lu">
<fo:block end-indent="0lu" is-comment=
>false" keep-together="auto"
keep-with-next="auto" line-height=
"0lu" line-spacing="single"
space-after="0lu" space-before="0lu"
start-indent="0lu" tab-ruler="8"
text-align="left" text-indent="0lu"
usage-rule="Rule|0|">
<fo:inline color="rgb(0,0,0)"
font-family="Times New Roman"
font-size="10.00pt" font-style=
"normal" is-comment="false"
letter-spacing="0.00pt"
page-break-before="auto"
text-decoration="none"/>
</fo:block>
</fo:table-cell>
<fo:table-cell border-after-style="none"
border-after-width="0lu"
border-before-style="none"
border-before-width="0lu"
border-bottom-style="none"
```

```
border-bottom-width="0lu"
border-end-style="none"
border-end-width="0lu"
border-left-style="none"
border-left-width="0lu"
border-right-style="none"
border-right-width="0lu"
border-start-style="none"
border-start-width="0lu"
border-top-style="none"
border-top-width="0lu"
column-number="2" display-align="auto"
height="167lu" margin-bottom="50lu"
margin-left="50lu" margin-right="50lu"
margin-top="50lu" meta-props-language=
"default" meta-props-options=
"read-object-text" meta-props-order="2"
number-columns-spanned="1"
number-rows-spanned="1" width="1858lu">
    <fo:block end-indent="0lu" is-comment=
    "false" keep-together="auto"
    keep-with-next="auto" line-height=
    "0lu" line-spacing="single"
    space-after="0lu" space-before="0lu"
    start-indent="0lu" tab-ruler="9"
    text-align="left" text-indent="0lu"
    usage-rule="Rule|0|">
        <fo:inline color="" font-family=
        "Times New Roman" font-size=
        "10.00pt" font-style="normal"
        is-comment="false" letter-spacing=
        "0.00pt" page-break-before="auto"
        text-decoration="none"/>
    </fo:block>
</fo:table-cell>
<fo:table-cell border-after-style="none"
border-after-width="0lu"
border-before-style="none"
border-before-width="0lu"
border-bottom-style="none"
border-bottom-width="0lu"
border-end-style="none"
border-end-width="0lu"
border-left-style="none"
border-left-width="0lu"
border-right-style="none"
border-right-width="0lu"
border-start-style="none"
border-start-width="0lu"
```

```
border-top-style="none"
border-top-width="0lu"
column-number="3" display-align=
"auto" height="167lu" margin-bottom="50lu"
margin-left="50lu" margin-right="50lu"
margin-top="50lu" meta-props-language=
"default" meta-props-options=
"read-object-text" meta-props-order="3"
number-columns-spanned="1"
number-rows-spanned="1" width="1858lu">
    <fo:block end-indent="0lu" is-comment=
"false" keep-together="auto"
keep-with-next="auto" line-height=
"0lu" line-spacing="single"
space-after="0lu" space-before="0lu"
start-indent="0lu" tab-ruler="10"
text-align="left" text-indent="0lu"
usage-rule="Rule|0|">
        <fo:inline color="rgb(0,0,0)"
font-family="Times New Roman"
font-size="10.00pt" font-style=
"normal" is-comment="false"
letter-spacing="0.00pt"
page-break-before="auto"
text-decoration="none"/>
    </fo:block>
</fo:table-cell>
</fo:table-row>
</dlg:table>
</dlg:embedded-object>
</fo:block>
</fo:flow>
</dlg:text>
</dlg:objects>

</dlg:page>
```

## 5.7 Container Design Using a Grid Layout

The following sample represents a container design that uses a grid layout.

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<!DOCTYPE dlg:page SYSTEM "ExstreamObjectAndContent.dtd">
<dlg:page xmlns:dlg="http://www.hplexstream.com/2009/XSL/HPExstream"
allow-doc-checksum="false" flow-to-page="Page|0|" flow-type="none"
has-footnote="false" has-index="false" has-toc="false"
meta-props-language="default" meta-props-options="read-object-text"
meta-props-order="0" page-can-overflow="false" page-duplex="false"
page-in-sections="false" page-orientation="portrait" paper-type=
"PaperType|2|US Letter" schemaVersion="2.0" stylesheet="StyleSheet|0|"
xmlns:dx="http://www.hplexstream.com/2009/XSL/DXF" xmlns:fo=
"http://www.hplexstream.com/2009/XSL/DXF">

<dlg:basic folder="Folder|2000000000|Exstream" oid="31">
    <dlg:name>Test page</dlg:name>
    <dlg:description></dlg:description>
</dlg:basic>

<fo:declarations>
    <dlg:tab-ruler default-tab="250.00lu" id="0" list-type="none"
number-indent="0" number-string="" number-type="num"
user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="250.00lu" id="1" list-type="none"
number-indent="0" number-string="" number-type="num"
user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="250.00lu" id="2" list-type="none"
number-indent="0" number-string="" number-type="num"
user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="250.00lu" id="3" list-type="none"
number-indent="0" number-string="" number-type="num"
user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="250.00lu" id="4" list-type="none"
number-indent="0" number-string="" number-type="num"
user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="250.00lu" id="5" list-type="none"
number-indent="0" number-string="" number-type="num"
user-set-color="false" user-set-type="false"/>
    <dlg:tab-ruler default-tab="250.00lu" id="6" list-type="none"
number-indent="0" number-string="" number-type="num"
user-set-color="false" user-set-type="false"/>
</fo:declarations>

<dlg:objects>
```

```
<dlg:text anchor="tl" balance-cols="false" can-split="false"
column-color-pen="rgb(0,0,0)" column-pen-style="solid"
column-pen-width="1lu" columns="1" corner-size="4pt"
current-angle="0" delay-comp="none" design-var-ndx="0"
fit-max-point="0" fit-min-point="0" fit-step="5" fit-text="none"
fixed-height="false" flip-h="false" flip-v="false" flow-around=
"no" flow-break="auto" frame-style="frame" gutter-size="0lu"
h-auto-size="true" hide-empty="false" hyperlink-new-window=
"false" ignore-relative="no" kern-amount="120" kerning="0"
language="Language|0|" link-type="static" lock-proportions=
"false" meta-props-language="default" meta-props-options=
"read-object-text" meta-props-order="1" min-height="0"
object-prerotated="true" override-margins="false"
pos-rel-to-above="0" ref-id="6869962" reference-name="Text"
shadow="none" static-hyperlink="" unicode-digits="ascii"
unicode-script="latin" v-auto-size="true" variable-hyperlink=
"Variable|0|" widows="0" wrap-around-other="none" xy-font-scaling
="false">
    <dlg:rect bottom="56.74pt" left="36.58pt" right="98.71pt" top=
"44.71pt"/>
    <fo:flow display-align="auto" height="167.00lu" margin-bottom=
"0.00lu" margin-left="0.00lu" margin-right="0.00lu" margin-top
="0.00lu" width="863.00lu">
        <fo:block end-indent="0lu" is-comment="false" keep-together=
"auto" keep-with-next="auto" line-height="0lu" line-spacing=
"single" space-after="0lu" space-before="0lu" start-indent=
"0lu" tab-ruler="0" text-align="left" text-indent="0lu"
usage-rule="Rule|0|">
            <fo:inline color="" font-family="Times New Roman"
font-size="10.00pt" font-style="normal" is-comment=
"false" letter-spacing="0.00pt" page-break-before=
"auto" text-decoration="none">This is cell A1.
            </fo:inline>
        </fo:block>
    </fo:flow>
</dlg:text>
<dlg:text anchor="tl" balance-cols="false" can-split="false"
column-color-pen="rgb(0,0,0)" column-pen-style="solid"
column-pen-width="1lu" columns="1" corner-size="4pt"
current-angle="0" delay-comp="none" design-var-ndx="0"
fit-max-point="0" fit-min-point="0" fit-step="5" fit-text="none"
fixed-height="false" flip-h="false" flip-v="false" flow-around=
"no" flow-break="auto" frame-style="frame" gutter-size="0lu"
h-auto-size="true" hide-empty="false" hyperlink-new-window=
"false" ignore-relative="no" kern-amount="120" kerning="0"
language="Language|0|" link-type="static" lock-proportions=
"false" meta-props-language="default" meta-props-options=
"read-object-text" meta-props-order="2" min-height="0"
object-prerotated="true" override-margins="false"
```

```
pos-rel-to-above="0" ref-id="8287457" reference-name="Text 3"
shadow="none" static-hyperlink="" unicode-digits="ascii"
unicode-script="latin" v-auto-size="true" variable-hyperlink=
"Variable|0|" widows="0" wrap-around-other="none" xy-font-scaling
="false">
    <dlg:rect bottom="59.76pt" left="160.56pt" right="206.64pt"
    top="47.74pt"/>
    <fo:flow display-align="auto" height="167.00lu" margin-bottom=
    "0.00lu" margin-left="0.00lu" margin-right="0.00lu" margin-top
    ="0.00lu" width="640.00lu">
        <fo:block end-indent="0lu" is-comment="false" keep-together=
        "auto" keep-with-next="auto" line-height="0lu" line-spacing=
        "single" space-after="0lu" space-before="0lu" start-indent=
        "0lu" tab-ruler="1" text-align="left" text-indent="0lu"
        usage-rule="Rule|0|">
            <fo:inline color="" font-family="Times New Roman"
            font-size="10.00pt" font-style="normal" is-comment=
            "false" letter-spacing="0.00pt" page-break-before="auto"
            text-decoration="none">Cell B1-C1</fo:inline>
        </fo:block>
    </fo:flow>
</dlg:text>
<dlg:text anchor="tl" balance-cols="false" can-split="false"
column-color-pen="rgb(0,0,0)" column-pen-style="solid"
column-pen-width="1lu" columns="1" corner-size="4pt"
current-angle="0" delay-comp="none" design-var-ndx="0"
fit-max-point="0" fit-min-point="0" fit-step="5" fit-text="none"
fixed-height="false" flip-h="false" flip-v="false" flow-around=
"no" flow-break="auto" frame-style="frame" gutter-size="0lu"
h-auto-size="true" hide-empty="false" hyperlink-new-window=
"false" ignore-relative="no" kern-amount="120" kerning="0"
language="Language|0|" link-type="static" lock-proportions=
"false" meta-props-language="default" meta-props-options=
"read-object-text" meta-props-order="3" min-height="0"
object-prerotated="true" override-margins="false"
pos-rel-to-above="0" ref-id="6504650" reference-name="Text 4"
shadow="none" static-hyperlink="" unicode-digits="ascii"
unicode-script="latin" v-auto-size="true" variable-hyperlink=
"Variable|0|" widows="0" wrap-around-other="none" xy-font-scaling
="false">
    <dlg:rect bottom="177.70pt" left="180.94pt" right="211.90pt"
    top="165.67pt"/>
    <fo:flow display-align="auto" height="167.00lu" margin-bottom=
    "0.00lu" margin-left="0.00lu" margin-right="0.00lu" margin-top
    ="0.00lu" width="430.00lu">
        <fo:block end-indent="0lu" is-comment="false" keep-together=
        "auto" keep-with-next="auto" line-height="0lu" line-spacing=
        "single" space-after="0lu" space-before="0lu" start-indent=
        "0lu" tab-ruler="2" text-align="left" text-indent="0lu"
```

```
usage-rule="Rule|0|"
    <fo:inline color="" font-family="Times New Roman"
    font-size="10.00pt" font-style="normal" is-comment=
    "false" letter-spacing="0.00pt" page-break-before="auto"
    text-decoration="none">Cell B3</fo:inline>
</fo:block>
</fo:flow>
</dlg:text>
<dlg:text anchor="t1" balance-cols="false" can-split="false"
column-color-pen="rgb(0,0,0)" column-pen-style="solid"
column-pen-width="1lu" columns="1" corner-size="4pt"
current-angle="0" delay-comp="none" design-var-ndx="0"
fit-max-point="0" fit-min-point="0" fit-step="5" fit-text="none"
fixed-height="false" flip-h="false" flip-v="false" flow-around=
"no" flow-break="auto" frame-style="frame" gutter-size="0lu"
h-auto-size="true" hide-empty="false" hyperlink-new-window=
"false" ignore-relative="no" kern-amount="120" kerning="0"
language="Language|0|" link-type="static" lock-proportions=
"false" meta-props-language="default" meta-props-options=
"read-object-text" meta-props-order="4" min-height="0"
object-prerotated="true" override-margins="false"
pos-rel-to-above="0" ref-id="886161" reference-name="Text 5"
shadow="none" static-hyperlink="" unicode-digits="ascii"
unicode-script="latin" v-auto-size="true" variable-hyperlink=
"Variable|0|" widows="0" wrap-around-other="none" xy-font-scaling
="false">
    <dlg:rect bottom="166.54pt" left="268.34pt" right="330.05pt"
    top="154.51pt"/>
    <fo:flow display-align="auto" height="167.00lu" margin-bottom=
    "0.00lu" margin-left="0.00lu" margin-right="0.00lu" margin-top
    ="0.00lu" width="857.00lu">
        <fo:block end-indent="0lu" is-comment="false" keep-together=
        "auto" keep-with-next="auto" line-height="0lu" line-spacing=
        "single" space-after="0lu" space-before="0lu" start-indent=
        "0lu" tab-ruler="3" text-align="left" text-indent="0lu"
        usage-rule="Rule|0|">
            <fo:inline color="" font-family="Times New Roman"
            font-size="10.00pt" font-style="normal" is-comment=
            "false" letter-spacing="0.00pt" page-break-before="auto"
            text-decoration="none">This is cell C3.</fo:inline>
        </fo:block>
    </fo:flow>
</dlg:text>
<dlg:text balance-cols="false" can-split="false" column-color-pen
="rgb(0,0,0)" column-pen-style="solid" column-pen-width="1lu"
columns="1" corner-size="4pt" current-angle="0" delay-comp="none"
design-var-ndx="0" fit-max-point="0" fit-min-point="0" fit-step=
"5" fit-text="none" fixed-height="false" flip-h="false" flip-v=
"false" flow-around="no" flow-break="auto" frame-style="frame"
```

```
gutter-size="0lu" h-auto-size="false" hide-empty="false"
hyperlink-new-window="false" ignore-relative="no" kern-amount=
"120" kerning="0" language="Language|0|" link-type="static"
lock-proportions="false" meta-props-language="default"
meta-props-options="read-object-text" meta-props-order="5"
object-prerotated="true" override-margins="false" pen="false"
pen-color="rgb(0,0,0)" pen-style="none" pen-width="1lu"
pos-rel-to-above="0" ref-id="8617662" reference-name="Text 6"
shadow="none" static-hyperlink="" unicode-digits="ascii"
unicode-script="latin" v-auto-size="false" variable-hyperlink=
"Variable|0|" widows="0" wrap-around-other="none" xy-font-scaling
=false">
  <dlg:rect bottom="107.64pt" left="142.42pt" right="313.92pt"
  top="95.62pt"/>
  <fo:flow display-align="auto" height="167.00lu" margin-bottom=
  "0.00lu" margin-left="0.00lu" margin-right="0.00lu" margin-top
  ="0.00lu" width="2382.00lu">
    <fo:block end-indent="0lu" is-comment="false" keep-together-
    "auto" keep-with-next="auto" line-height="0lu" line-spacing=
    "single" space-after="0lu" space-before="0lu" start-indent=
    "0lu" tab-ruler="4" text-align="left" text-indent="0lu"
    usage-rule="Rule|0|">
      <fo:inline color="rgb(255,255,255)" font-family=
      "Times New Roman" font-size="10.00pt" font-style="normal"
      is-comment="false" letter-spacing="0.00pt"
      page-break-before="auto" text-decoration="none">Cell B2
contains a lower-level container</fo:inline>
    </fo:block>
    </fo:flow>
  </dlg:text>
  <dlg:text anchor="t1" balance-cols="false" can-split="false"
  column-color-pen="rgb(0,0,0)" column-pen-style="solid"
  column-pen-width="1lu" columns="1" corner-size="4pt"
  current-angle="0" delay-comp="none" design-var-ndx="0"
  fit-max-point="0" fit-min-point="0" fit-step="5" fit-text="none"
  fixed-height="false" flip-h="false" flip-v="false" flow-around=
  "no" flow-break="auto" frame-style="frame" gutter-size="0lu"
  h-auto-size="true" hide-empty="false" hyperlink-new-window=
  "false" ignore-relative="no" kern-amount="120" kerning="0"
  language="Language|0|" link-type="static" lock-proportions=
  "false" meta-props-language="default" meta-props-options=
  "read-object-text" meta-props-order="6" min-height="0"
  object-prerotated="true" override-margins="false"
  pos-rel-to-above="0" ref-id="9327634" reference-name="Text 7"
  shadow="none" static-hyperlink="" unicode-digits="ascii"
  unicode-script="latin" v-auto-size="true" variable-hyperlink=
  "Variable|0|" widows="0" wrap-around-other="none" xy-font-scaling
  =false">
    <dlg:rect bottom="125.86pt" left="214.49pt" right="289.15pt"
```

```
top="113.83pt"/>
<fo:flow display-align="auto" height="167.00lu" margin-bottom=
"0.00lu" margin-left="0.00lu" margin-right="0.00lu" margin-top
="0.00lu" width="1037.00lu">
<fo:block end-indent="0lu" is-comment="false" keep-together=
"auto" keep-with-next="auto" line-height="0lu" line-spacing=
"single" space-after="0lu" space-before="0lu" start-indent=
"0lu" tab-ruler="5" text-align="left" text-indent="0lu"
usage-rule="Rule|0|">
    <fo:inline color="rgb(255,255,255)" font-family=
"Times New Roman" font-size="10.00pt" font-style="normal"
is-comment="false" letter-spacing="0.00pt"
page-break-before="auto" text-decoration="none">that
itself contains</fo:inline>
    </fo:block>
    </fo:flow>
</dlg:text>
<dlg:text anchor="t1" balance-cols="false" can-split="false"
column-color-pen="rgb(0,0,0)" column-pen-style="solid"
column-pen-width="1lu" columns="1" corner-size="4pt"
current-angle="0" delay-comp="none" design-var-ndx="0"
fit-max-point="0" fit-min-point="0" fit-step="5" fit-text="none"
fixed-height="false" flip-h="false" flip-v="false" flow-around=
"no" flow-break="auto" frame-style="frame" gutter-size="0lu"
h-auto-size="true" hide-empty="false" hyperlink-new-window=
"false" ignore-relative="no" kern-amount="120" kerning="0"
language="Language|0|" link-type="static" lock-proportions=
"false" meta-props-language="default" meta-props-options=
"read-object-text" meta-props-order="7" min-height="0"
object-prerotated="true" override-margins="false" pen="false"
pen-color="rgb(0,0,0)" pen-style="none" pen-width="1lu"
pos-rel-to-above="0" ref-id="6025446" reference-name="Text 8"
shadow="none" static-hyperlink="" unicode-digits="ascii"
unicode-script="latin" v-auto-size="true" variable-hyperlink=
"Variable|0|" widows="0" wrap-around-other="none" xy-font-scaling
="false">
    <dlg:rect bottom="114.84pt" left="149.62pt" right="229.32pt"
top="102.82pt"/>
    <fo:flow display-align="auto" height="167.00lu" margin-bottom=
"0.00lu" margin-left="0.00lu" margin-right="0.00lu" margin-top
="0.00lu" width="1107.00lu">
        <fo:block end-indent="0lu" is-comment="false" keep-together=
"auto" keep-with-next="auto" line-height="0lu" line-spacing=
"single" space-after="0lu" space-before="0lu" start-indent=
"0lu" tab-ruler="6" text-align="left" text-indent="0lu"
usage-rule="Rule|0|">
            <fo:inline color="rgb(255,255,255)" font-family=
"Times New Roman" font-size="10.00pt" font-style="normal"
is-comment="false" letter-spacing="0.00pt"
```

```
    page-break-before="auto" text-decoration="none">>multiple
text boxes.</fo:inline>
</fo:block>
</fo:flow>
</dlg:text>
<dlg:container can-split="false" container-clip="ignore-clipping"
container-label-oi="Container Design Label|1|Default"
container-type="grid-layout" current-angle="0" delay-comp="none"
design-var-ndx="0" flip-h="false" flip-v="false" flow-around="no"
flow-break="auto" glc-columns="3" glc-rows="3" h-auto-size=
"false" has-max-width="false" has-min-width="false"
ignore-relative="ignore" language="Language|0|" lock-proportions=
"false" num-tiles="0" padding-bottom="0" padding-elem="100"
padding-left="0" padding-right="0" padding-tile="50" padding-top=
"0" pen="true" pen-color="rgb(0,0,0)" pen-style="solid" pen-width
="1lu" pos-rel-to-above="0" ref-id="1036306" reference-name=
"Primary Container" shadow="none" top-container="true"
v-auto-size="false">
    <dlg:rect bottom="233.14pt" left="28.80pt" right="453.89pt"
top="28.80pt"/>
    <dlg:contained-ref fixed-height="true" fixed-width="true"
has-z-index="false" oid="6869962" page-oid="-1" x="200" y=
"200"/>
    <dlg:contained-ref fixed-height="true" fixed-width="true"
has-z-index="false" oid="8287457" page-oid="-1" x="1263" y=
"200"/>
    <dlg:contained-ref fixed-height="true" fixed-width="true"
has-z-index="false" oid="6504650" page-oid="-1" x="4017" y=
"2470"/>
    <dlg:contained-ref fixed-height="true" fixed-width="true"
has-z-index="false" oid="886161" page-oid="-1" x="4847" y=
"2470"/>
    <dlg:contained-ref fixed-height="true" fixed-width="true"
has-z-index="false" oid="9187132" page-oid="-1" x="1763" y=
"1067"/>
    <dlg:logical-cell bottom-padding="200" cell-alignment=
"middle-right" child-ndx="2" hspan="1" left-padding="200"
right-padding="200" start-col="1" start-row="2" top-padding=
"200" vspan="1"/>
    <dlg:logical-cell bottom-padding="0" cell-alignment=
"middle-center" child-ndx="-1" hspan="1" left-padding="0"
right-padding="0" start-col="0" start-row="2" top-padding="0"
vspan="1"/>
    <dlg:logical-cell bottom-padding="500" brush="true"
brush-fill-color="rgb(0,0,0)" cell-alignment="middle-center"
child-ndx="-1" hspan="1" left-padding="500" right-padding=
"500" start-col="2" start-row="1" top-padding="500"
vspan="1"/>
    <dlg:logical-cell bottom-padding="500" brush="true"
```

```
brush-fill-color="rgb(0,0,0)" cell-alignment="middle-center"
child-ndx="4" hspan="1" left-padding="500" right-padding="500"
start-col="1" start-row="1" top-padding="500" vspan="1"/>
<dlg:logical-cell bottom-padding="500" brush="true"
brush-fill-color="rgb(0,0,0)" cell-alignment="middle-center"
child-ndx="-1" hspan="1" left-padding="500" right-padding=
"500" start-col="0" start-row="1" top-padding="500"
vspan="1"/>
<dlg:logical-cell bottom-padding="0" cell-alignment=
"middle-left" child-ndx="1" hspan="2" left-padding="0"
right-padding="0" start-col="1" start-row="0" top-padding="0"
vspan="1"/>
<dlg:logical-cell bottom-padding="200" cell-alignment=
"middle-center" child-ndx="3" hspan="1" left-padding="200"
right-padding="200" start-col="2" start-row="2" top-padding=
"200" vspan="1"/>
<dlg:logical-cell bottom-padding="200" cell-alignment=
"middle-center" child-ndx="0" hspan="1" left-padding="200"
right-padding="200" start-col="0" start-row="0" top-padding=
"200" vspan="1"/>
</dlg:container>
<dlg:container can-split="false" container-clip="ignore-clipping"
container-type="vertical-span" current-angle="0" delay-comp=
"none" design-var-ndx="0" flip-h="false" flip-v="false"
flow-around="no" flow-break="auto" h-auto-size="false"
has-max-width="false" has-min-width="true" ignore-relative=
"ignore" language="Language|0|" lock-proportions="false"
min-width="1000" num-tiles="0" padding-bottom="0" padding-elem=
"100" padding-left="0" padding-right="0" padding-tile="50"
padding-top="0" pen="true" pen-color="rgb(0,0,0)" pen-style=
"solid" pen-width="1lu" pos-rel-to-above="0" ref-id="9187132"
reference-name="Container" shadow="none" top-container="false"
v-auto-size="false">
    <dlg:rect bottom="50.62pt" left="0.00pt" right="171.65pt" top=
"0.00pt"/>
    <dlg:contained-ref fixed-height="true" fixed-width="true"
has-z-index="false" oid="8617662" page-oid="-1" x="1" y="1"/>
    <dlg:contained-ref fixed-height="true" fixed-width="true"
has-z-index="false" oid="9327634" page-oid="-1" x="1"
y="268"/>
    <dlg:contained-ref fixed-height="true" fixed-width="true"
has-z-index="false" oid="6025446" page-oid="-1" x="1"
y="535"/>
</dlg:container>
</dlg:objects>

</dlg:page>
```

## Appendix A: Unused Elements

The following elements are defined in the Exstream Object and Content DTD but are not currently used in DXF (imported or exported) or XML (composed) output:

- fo:absolute-or-relative-position-props
- fo:accessibility-props
- dlg:and-or
- fo:area-alignment-inline-props
- fo:area-props
- dlg:array-wrapper-coordinate
- fo:aural-props
- fo:base
- fo:block-container
- fo:block-props
- fo:border-padding-background-props
- fo:border-precedence-props
- fo:box-size-props
- fo:character-props
- dlg:charformat2
- fo:color-profile
- dlg:condition
- fo:empty-inline-props
- dlg:encoded-binary
- fo:float
- fo:float-props
- fo:flow-props
- dlg:folder
- dlg:font-face
- fo:hyphenation-block-props
- fo:hyphenation-inline-props

- fo:id-props
- fo:inheritable-props
- fo:initial-property-set
- fo:inline-container
- fo:inline-props
- fo:keep-and-break-atomic-props
- fo:keep-and-break-block-props
- fo:keep-and-break-inline-props
- dlg:kerningpair
- dlg:layer-info
- fo:leader
- fo:leader-props
- fo:line-height-props
- fo:line-props
- fo:list-block
- fo:list-item
- fo:list-item-body
- fo:list-item-label
- fo:list-props
- dlg:logfont
- fo:margin-block-props
- fo:margin-inline-props
- fo:margin-props
- dlg:point
- dlg:priority
- fo:relative-position-props
- dlg:rule-line
- dlg:simplerule
- dlg:size
- dlg:stylesheet

- fo:table
- fo:table-and-caption
- fo:table-body
- fo:table-caption
- fo:table-footer
- fo:table-header
- fo:table-props
- dlg:target-text
- dlg:value
- dlg:value-folder
- fo:visibility-props
- fo:wrapper

# Appendix B: Attributes of the `dlg:chart` Element That Apply for Each Chart Type

For each chart type, determined by the value of the `chart-type` attribute, certain attributes apply. This appendix lists the attributes specific to the `dlg:chart` element that are valid for each chart type.

This chapter discusses the following topics:

- “Attributes for the area Chart Type” on the next page
- “Attributes for the bar Chart Type” on page 713
- “Attributes for the calendar Chart Type” on page 716
- “Attributes for the comparative-bar Chart Type” on page 717
- “Attributes for the comparative-line Chart Type” on page 720
- “Attributes for the floating-bar (Legacy) Chart Type” on page 723
- “Attributes for the horizontal-bar Chart Type” on page 726
- “Attributes for the horizontal-stacked-bar Chart Type” on page 729
- “Attributes for the line Chart Type” on page 732
- “Attributes for the pie Chart Type” on page 735
- “Attributes for the progress Chart Type” on page 737
- “Attributes for the radar Chart Type” on page 738
- “Attributes for the range Chart Type” on page 741
- “Attributes for the scatter Chart Type” on page 744
- “Attributes for the scattergram Chart Type” on page 747
- “Attributes for the stacked-bar Chart Type” on page 750

## B.1 Attributes for the area Chart Type

alternating-xy	legend-font-bold
border	legend-font-color
chart-type	legend-font-face
custom-legend-box-size	legend-font-italic
data-label-align	legend-font-size
data-label-border-color	legend-format
data-label-border-style	legend-frame
data-label-border-weight	legend-hanging-wrap
data-label-collision-avoidance	legend-height
data-label-display-level	legend-labels
data-label-fill-color	legend-num-columns
data-label-fill-type	legend-original-position
data-label-font-bold	legend-position
data-label-font-color	legend-rect
data-label-font-face	legend-spacing
data-label-font-italic	legend-tab1
data-label-font-size	legend-tab2
data-label-placement	legend-width
data-label-plot-area-method	legend-wrap
frame-rect	plot-fill-color
frame-x	plot-frame-style
frame-y	plot-line-color
grid-color	plot-line-style
grid-style	plot-line-weight
grid-weight	plot-range-fill
legend-fill-color	plot-range-fill-axis
legend-fill-transparent	plot-range-fill-color

plot-range-fill-max	xaxis-format
plot-range-fill-max-variable	xaxis-grid
plot-range-fill-min	xaxis-grid-skip-interval
plot-range-fill-min-variable	xaxis-hour-format
title	xaxis-interval
title-align	xaxis-label-method
title-font-bold	xaxis-label-orientation
title-font-color	xaxis-month-format
title-font-face	xaxis-negative-style
title-font-italic	xaxis-position-labels-between-lines
title-font-pts	xaxis-quarter-format
title-font-size	xaxis-range-maximum
title-rect	xaxis-range-method
title-variable	xaxis-range-minimum
title-x	xaxis-range-variable
title-y	xaxis-scale
units-per-inch	xaxis-thousands
xaxis-alternate-label	xaxis-tick-method
xaxis-always-display-year	xaxis-tick-number
xaxis-complete-time-periods	xaxis-tick-style
xaxis-custom-format	xaxis-title
xaxis-day-format	xaxis-title-align
xaxis-decimal	xaxis-title-font-bold
xaxis-digits	xaxis-title-font-color
xaxis-font-bold	xaxis-title-font-face
xaxis-font-color	xaxis-title-font-italic
xaxis-font-face	xaxis-title-font-pts
xaxis-font-italic	xaxis-title-font-size
xaxis-font-pts	xaxis-title-variable
xaxis-font-size	xaxis-year-format

<code>xseries-variable</code>	<code>yaxis-title-font-face</code>
<code>y-zero-line</code>	<code>yaxis-title-font-italic</code>
<code>yaxis-alternate-labels</code>	<code>yaxis-title-font-size</code>
<code>yaxis-custom-format</code>	<code>yaxis-title-variable</code>
<code>yaxis-decimal</code>	
<code>yaxis-digits</code>	
<code>yaxis-font-bold</code>	
<code>yaxis-font-color</code>	
<code>yaxis-font-face</code>	
<code>yaxis-font-italic</code>	
<code>yaxis-font-size</code>	
<code>yaxis-format</code>	
<code>yaxis-grid</code>	
<code>yaxis-negative-style</code>	
<code>yaxis-position</code>	
<code>yaxis-range-maximum</code>	
<code>yaxis-range-method</code>	
<code>yaxis-range-minimum</code>	
<code>yaxis-range-variable</code>	
<code>yaxis-reduce-magnitude</code>	
<code>yaxis-scale</code>	
<code>yaxis-show-labels</code>	
<code>yaxis-thousands</code>	
<code>yaxis-tick-method</code>	
<code>yaxis-tick-number</code>	
<code>yaxis-tick-style</code>	
<code>yaxis-title</code>	
<code>yaxis-title-align</code>	
<code>yaxis-title-font-bold</code>	
<code>yaxis-title-font-color</code>	

## B.2 Attributes for the bar Chart Type

bar-label-orientation	label-color
bar-label-placement	legend-fill-color
bar-label-type	legend-fill-transparent
bar-percent-size	legend-font-bold
border	legend-font-color
chart-type	legend-font-face
custom-legend-box-size	legend-font-italic
data-label-align	legend-font-size
data-label-border-color	legend-format
data-label-border-style	legend-frame
data-label-border-weight	legend-hanging-wrap
data-label-fill-color	legend-height
data-label-fill-type	legend-labels
data-label-font-bold	legend-num-columns
data-label-font-color	legend-original-position
data-label-font-face	legend-position
data-label-font-italic	legend-rect
data-label-font-size	legend-spacing
frame-rect	legend-tab1
frame-rect-3d	legend-tab2
frame-x	legend-width
frame-y	legend-wrap
grid-color	line-color
grid-style	line-width
grid-weight	overlay-flags
has-shadow-color	plot-3d-edge-fill-color
is-3d	plot-fill-color

plot-frame-style	xaxis-font-italic
plot-line-color	xaxis-font-pts
plot-line-style	xaxis-font-size
plot-line-weight	xaxis-grid
plot-range-fill	xaxis-label-orientation
plot-range-fill-axis	xaxis-position-labels-between-lines
plot-range-fill-color	xaxis-range-maximum
plot-range-fill-max	xaxis-range-method
plot-range-fill-max-variable	xaxis-range-minimum
plot-range-fill-min	xaxis-range-variable
plot-range-fill-min-variable	xaxis-tick-method
thickness	xaxis-tick-number
title	xaxis-tick-style
title-align	xaxis-title
title-font-bold	xaxis-title-align
title-font-color	xaxis-title-bold
title-font-face	xaxis-title-color
title-font-italic	xaxis-title-face
title-font-pts	xaxis-title-italic
title-font-size	xaxis-title-pts
title-rect	xaxis-title-size
title-variable	xaxis-title-variable
title-x	xseries-variable
title-y	y-zero-line
units-per-inch	yaxis-alternate-labels
use-array	yaxis-custom-format
xaxis-alternate-label	yaxis-font-bold
xaxis-font-bold	yaxis-font-color
xaxis-font-color	yaxis-font-face
xaxis-font-face	yaxis-font-italic

yaxis-font-size  
yaxis-grid  
yaxis-negative-scale-factor  
yaxis-position  
yaxis-range-maximum  
yaxis-range-method  
yaxis-range-minimum  
yaxis-range-variable  
yaxis-reduce-magnitude  
yaxis-show-labels  
yaxis-tick-method  
yaxis-tick-number  
yaxis-tick-style  
yaxis-title  
yaxis-title-align  
yaxis-title-font-bold  
yaxis-title-font-color  
yaxis-title-font-face  
yaxis-title-font-italic  
yaxis-title-font-size  
yaxis-title-variable

## B.3 Attributes for the calendar Chart Type

border  
chart-type  
frame-rect  
frame-x  
frame-y  
has-shadow-color  
line-color  
line-width  
units-per-inch

## B.4 Attributes for the comparative-bar Chart Type

bar-label-orientation	label-color
bar-label-placement	legend-fill-color
bar-label-type	legend-fill-transparent
bar-percent-size	legend-font-bold
border	legend-font-color
chart-type	legend-font-face
custom-legend-box-size	legend-font-italic
data-label-align	legend-font-size
data-label-border-color	legend-format
data-label-border-style	legend-frame
data-label-border-weight	legend-hanging-wrap
data-label-fill-color	legend-height
data-label-fill-type	legend-labels
data-label-font-bold	legend-num-columns
data-label-font-color	legend-original-position
data-label-font-face	legend-position
data-label-font-italic	legend-rect
data-label-font-size	legend-reverse-order
frame-rect	legend-spacing
frame-rect-3d	legend-tab1
frame-x	legend-tab2
frame-y	legend-width
grid-color	legend-wrap
grid-style	line-color
grid-weight	line-width
has-shadow-color	plot-3d-edge-fill-color
is-3d	plot-fill-color

plot-frame-style	xaxis-font-italic
plot-line-color	xaxis-font-pts
plot-line-style	xaxis-font-size
plot-line-weight	xaxis-grid
plot-range-fill	xaxis-grid-skip-interval
plot-range-fill-axis	xaxis-label-orientation
plot-range-fill-color	xaxis-position-labels-between-lines
plot-range-fill-max	xaxis-quarter-format
plot-range-fill-max-variable	xaxis-range-maximum
plot-range-fill-min	xaxis-range-method
plot-range-fill-min-variable	xaxis-range-minimum
thickness	xaxis-range-variable
title	xaxis-tick-method
title-align	xaxis-tick-number
title-font-bold	xaxis-tick-style
title-font-color	xaxis-title
title-font-face	xaxis-title-align
title-font-italic	xaxis-title-font-bold
title-font-pts	xaxis-title-font-color
title-font-size	xaxis-title-font-face
title-rect	xaxis-title-font-italic
title-variable	xaxis-title-font-pts
title-x	xaxis-title-font-size
title-y	xaxis-title-variable
units-per-inch	y-zero-line
use-array	yaxis-alternate-labels
xaxis-alternate-label	yaxis-custom-format
xaxis-font-bold	yaxis-font-bold
xaxis-font-color	yaxis-font-color
xaxis-font-face	yaxis-font-face

yaxis-font-italic  
yaxis-font-size  
yaxis-grid  
yaxis-position  
yaxis-range-maximum  
yaxis-range-method  
yaxis-range-minimum  
yaxis-range-variable  
yaxis-reduce-magnitude  
yaxis-show-labels  
yaxis-tick-method  
yaxis-tick-number  
yaxis-tick-style  
yaxis-title  
yaxis-title-align  
yaxis-title-font-bold  
yaxis-title-font-color  
yaxis-title-font-face  
yaxis-title-font-italic  
yaxis-title-font-size  
yaxis-title-variable

## B.5 Attributes for the comparative-line Chart Type

alternating-xy	legend-fill-transparent
border	legend-font-bold
chart-type	legend-font-color
custom-legend-box-size	legend-font-face
data-label-align	legend-font-italic
data-label-border-color	legend-font-size
data-label-border-style	legend-format
data-label-border-weight	legend-frame
data-label-collision-avoidance	legend-hanging-wrap
data-label-display-level	legend-height
data-label-fill-color	legend-label-order
data-label-fill-type	legend-labels
data-label-font-bold	legend-num-columns
data-label-font-color	legend-original-position
data-label-font-face	legend-position
data-label-font-italic	legend-rect
data-label-font-size	legend-spacing
data-label-placement	legend-tab1
data-label-plot-area-method	legend-tab2
data-label-series	legend-width
frame-rect	legend-wrap
frame-x	plot-fill-color
frame-y	plot-frame-style
grid-color	plot-line-color
grid-style	plot-line-style
grid-weight	plot-line-weight
legend-fill-color	plot-range-fill

<code>plot-range-fill-axis</code>	<code>xaxis-font-pts</code>
<code>plot-range-fill-color</code>	<code>xaxis-font-size</code>
<code>plot-range-fill-max</code>	<code>xaxis-format</code>
<code>plot-range-fill-max-variable</code>	<code>xaxis-grid</code>
<code>plot-range-fill-min</code>	<code>xaxis-grid-skip-interval</code>
<code>plot-range-fill-min-variable</code>	<code>xaxis-hour-format</code>
<code>title</code>	<code>xaxis-interval</code>
<code>title-align</code>	<code>xaxis-label-method</code>
<code>title-font-bold</code>	<code>xaxis-label-orientation</code>
<code>title-font-color</code>	<code>xaxis-month-format</code>
<code>title-font-face</code>	<code>xaxis-negative-style</code>
<code>title-font-italic</code>	<code>xaxis-position-labels-between-lines</code>
<code>title-font-pts</code>	<code>xaxis-range-maximum</code>
<code>title-font-size</code>	<code>xaxis-range-method</code>
<code>title-rect</code>	<code>xaxis-range-minimum</code>
<code>title-variable</code>	<code>xaxis-range-variable</code>
<code>title-x</code>	<code>xaxis-scale</code>
<code>title-y</code>	<code>xaxis-thousands</code>
<code>units-per-inch</code>	<code>xaxis-tick-method</code>
<code>xaxis-alternate-label</code>	<code>xaxis-tick-number</code>
<code>xaxis-always-display-year</code>	<code>xaxis-tick-style</code>
<code>xaxis-complete-time-periods</code>	<code>xaxis-title</code>
<code>xaxis-custom-format</code>	<code>xaxis-title-align</code>
<code>xaxis-day-format</code>	<code>xaxis-title-font-bold</code>
<code>xaxis-decimal</code>	<code>xaxis-title-font-color</code>
<code>xaxis-digits</code>	<code>xaxis-title-font-face</code>
<code>xaxis-font-bold</code>	<code>xaxis-title-font-italic</code>
<code>xaxis-font-color</code>	<code>xaxis-title-font-pts</code>
<code>xaxis-font-face</code>	<code>xaxis-title-font-size</code>
<code>xaxis-font-italic</code>	<code>xaxis-title-variable</code>

<code>xaxis-year-format</code>	<code>yaxis-title-font-color</code>
<code>xseries-variable</code>	<code>yaxis-title-font-face</code>
<code>y-zero-line</code>	<code>yaxis-title-font-italic</code>
<code>yaxis-alternate-labels</code>	<code>yaxis-title-font-size</code>
<code>yaxis-custom-format</code>	<code>yaxis-title-variable</code>
<code>yaxis-decimal</code>	
<code>yaxis-digits</code>	
<code>yaxis-font-bold</code>	
<code>yaxis-font-color</code>	
<code>yaxis-font-face</code>	
<code>yaxis-font-italic</code>	
<code>yaxis-font-size</code>	
<code>yaxis-format</code>	
<code>yaxis-grid</code>	
<code>yaxis-negative-style</code>	
<code>yaxis-position</code>	
<code>yaxis-range-maximum</code>	
<code>yaxis-range-method</code>	
<code>yaxis-range-minimum</code>	
<code>yaxis-range-variable</code>	
<code>yaxis-reduce-magnitude</code>	
<code>yaxis-scale</code>	
<code>yaxis-show-labels</code>	
<code>yaxis-thousands</code>	
<code>yaxis-tick-method</code>	
<code>yaxis-tick-number</code>	
<code>yaxis-tick-style</code>	
<code>yaxis-title</code>	
<code>yaxis-title-align</code>	
<code>yaxis-title-font-bold</code>	

## B.6 Attributes for the floating-bar (Legacy) Chart

### Type

**Note:** In Exstream versions 9.5.201 and later, the functionality of the floating bar chart has been merged with that of the stacked bar chart. The floating bar chart type is still supported for the import of legacy DXF files, and for exporting to DXF from a legacy design containing floating bar charts. If you edit and save an existing floating bar chart in Designer, it will be automatically converted to a stacked bar chart with overlay, and any new export to DXF from that point forward will contain the stacked bar chart type.

bar-label-orientation  
bar-label-placement  
bar-label-type  
bar-percent-size  
baseline  
border  
chart-type  
custom-legend-box-size  
data-label-align  
data-label-border-color  
data-label-border-style  
data-label-border-weight  
data-label-fill-color  
data-label-fill-type  
data-label-font-bold  
data-label-font-color

data-label-font-face  
data-label-font-italic  
data-label-font-size  
frame-rect  
frame-x  
frame-y  
grid-color  
grid-style  
grid-weight  
has-shadow-color  
label-color  
legend-fill-color  
legend-fill-transparent  
legend-font-bold  
legend-font-color  
legend-font-face  
legend-font-italic  
legend-font-size  
legend-format  
legend-frame  
legend-hanging-wrap  
legend-height  
legend-labels  
legend-num-columns  
legend-original-position  
legend-position  
legend-rect

legend-spacing	title-variable
legend-tab1	title-x
legend-tab2	title-y
legend-width	units-per-inch
legend-wrap	use-array
line-color	xaxis-alternate-label
line-width	xaxis-font-bold
overlay-flags	xaxis-font-color
plot-fill-color	xaxis-font-face
plot-frame-style	xaxis-font-italic
plot-line-color	xaxis-font-pts
plot-line-style	xaxis-font-size
plot-line-weight	xaxis-grid
plot-range-fill	xaxis-label-orientation
plot-range-fill-axis	xaxis-position-labels-between-lines
plot-range-fill-color	xaxis-range-maximum
plot-range-fill-max	xaxis-range-method
plot-range-fill-max-variable	xaxis-range-minimum
plot-range-fill-min	xaxis-range-variable
plot-range-fill-min-variable	xaxis-tick-method
thickness	xaxis-tick-number
title	xaxis-tick-style
title-align	xaxis-title
title-font-bold	xaxis-title-align
title-font-color	xaxis-title-font-bold
title-font-face	xaxis-title-font-color
title-font-italic	xaxis-title-font-face
title-font-pts	xaxis-title-font-italic
title-font-size	xaxis-title-font-pts
title-rect	xaxis-title-font-size

xaxis-title-variable  
y-zero-line  
yaxis-alternate-labels  
yaxis-custom-format  
yaxis-font-bold  
yaxis-font-color  
yaxis-font-face  
yaxis-font-italic  
yaxis-font-size  
yaxis-grid  
yaxis-position  
yaxis-range-maximum  
yaxis-range-method  
yaxis-range-minimum  
yaxis-range-variable  
yaxis-reduce-magnitude  
yaxis-show-labels  
yaxis-tick-method  
yaxis-tick-number  
yaxis-tick-style  
yaxis-title  
yaxis-title-align  
yaxis-title-font-bold  
yaxis-title-font-color  
yaxis-title-font-face  
yaxis-title-font-italic  
yaxis-title-font-size  
yaxis-title-variable

## B.7 Attributes for the horizontal-bar Chart Type

alternating-xy	is-3d
bar-label-orientation	label-color
bar-label-placement	legend-fill-color
bar-label-type	legend-fill-transparent
bar-percent-size	legend-font-bold
border	legend-font-color
chart-type	legend-font-face
custom-legend-box-size	legend-font-italic
data-label-align	legend-font-size
data-label-border-color	legend-format
data-label-border-style	legend-frame
data-label-border-weight	legend-hanging-wrap
data-label-fill-color	legend-height
data-label-fill-type	legend-labels
data-label-font-bold	legend-num-columns
data-label-font-color	legend-original-position
data-label-font-face	legend-position
data-label-font-italic	legend-rect
data-label-font-size	legend-spacing
frame-rect	legend-tab1
frame-rect-3d	legend-tab2
frame-x	legend-width
frame-y	legend-wrap
grid-color	line-color
grid-style	line-width
grid-weight	plot-3d-edge-fill-color
has-shadow-color	plot-fill-color

plot-frame-style	xaxis-font-italic
plot-line-color	xaxis-font-pts
plot-line-style	xaxis-font-size
plot-line-weight	xaxis-grid
plot-range-fill	xaxis-label-orientation
plot-range-fill-axis	xaxis-position-labels-between-lines
plot-range-fill-color	xaxis-range-maximum
plot-range-fill-max	xaxis-range-method
plot-range-fill-max-variable	xaxis-range-minimum
plot-range-fill-min	xaxis-range-variable
plot-range-fill-min-variable	xaxis-tick-method
thickness	xaxis-tick-number
title	xaxis-tick-style
title-align	xaxis-title
title-font-bold	xaxis-title-align
title-font-color	xaxis-title-bold
title-font-face	xaxis-title-color
title-font-italic	xaxis-title-face
title-font-pts	xaxis-title-italic
title-font-size	xaxis-title-pts
title-rect	xaxis-title-size
title-variable	xaxis-title-variable
title-x	xseries-variable
title-y	y-zero-line
units-per-inch	yaxis-alternate-labels
use-array	yaxis-custom-format
xaxis-alternate-label	yaxis-font-bold
xaxis-font-bold	yaxis-font-color
xaxis-font-color	yaxis-font-face
xaxis-font-face	yaxis-font-italic

yaxis-font-size  
yaxis-grid  
yaxis-negative-scale-factor  
yaxis-position  
yaxis-range-maximum  
yaxis-range-method  
yaxis-range-minimum  
yaxis-range-variable  
yaxis-reduce-magnitude  
yaxis-show-labels  
yaxis-tick-method  
yaxis-tick-number  
yaxis-tick-style  
yaxis-title  
yaxis-title-align  
yaxis-title-font-bold  
yaxis-title-font-color  
yaxis-title-font-face  
yaxis-title-font-italic  
yaxis-title-font-size  
yaxis-title-variable

## B.8 Attributes for the horizontal-stacked-bar Chart

Type	
bar-label-orientation	has-shadow-color
bar-label-placement	is-3d
bar-label-type	label-color
bar-percent-size	legend-fill-color
baseline	legend-fill-transparent
border	legend-font-bold
chart-type	legend-font-color
custom-legend-box-size	legend-font-face
data-label-align	legend-font-italic
data-label-border-color	legend-font-size
data-label-border-style	legend-format
data-label-border-weight	legend-frame
data-label-fill-color	legend-hanging-wrap
data-label-fill-type	legend-height
data-label-font-bold	legend-labels
data-label-font-color	legend-num-columns
data-label-font-face	legend-original-position
data-label-font-italic	legend-position
data-label-font-size	legend-rect
frame-rect	legend-spacing
frame-rect-3d	legend-tab1
frame-x	legend-tab2
frame-y	legend-width
grid-color	legend-wrap
grid-style	line-color
grid-weight	line-width
	plot-3d-edge-fill-color

plot-fill-color	xaxis-font-face
plot-frame-style	xaxis-font-italic
plot-line-color	xaxis-font-pts
plot-line-style	xaxis-font-size
plot-line-weight	xaxis-grid
plot-range-fill	xaxis-label-orientation
plot-range-fill-axis	xaxis-position-labels-between-lines
plot-range-fill-color	xaxis-range-maximum
plot-range-fill-max	xaxis-range-method
plot-range-fill-max-variable	xaxis-range-minimum
plot-range-fill-min	xaxis-range-variable
plot-range-fill-min-variable	xaxis-tick-method
thickness	xaxis-tick-number
title	xaxis-tick-style
title-align	xaxis-title
title-font-bold	xaxis-title-align
title-font-color	xaxis-title-font-bold
title-font-face	xaxis-title-font-color
title-font-italic	xaxis-title-font-face
title-font-pts	xaxis-title-font-italic
title-font-size	xaxis-title-font-pts
title-rect	xaxis-title-font-size
title-variable	xaxis-title-variable
title-x	xseries-variable
title-y	y-zero-line
units-per-inch	yaxis-alternate-labels
use-array	yaxis-custom-format
xaxis-alternate-label	yaxis-font-bold
xaxis-font-bold	yaxis-font-color
xaxis-font-color	yaxis-font-face

yaxis-font-italic  
yaxis-font-size  
yaxis-grid  
yaxis-position  
yaxis-range-maximum  
yaxis-range-method  
yaxis-range-minimum  
yaxis-range-variable  
yaxis-reduce-magnitude  
yaxis-show-labels  
yaxis-tick-method  
yaxis-tick-number  
yaxis-tick-style  
yaxis-title  
yaxis-title-align  
yaxis-title-font-bold  
yaxis-title-font-color  
yaxis-title-font-face  
yaxis-title-font-italic  
yaxis-title-font-size  
yaxis-title-variable

## B.9 Attributes for the line Chart Type

alternating-xy	is-3d
border	legend-fill-color
chart-type	legend-fill-transparent
custom-legend-box-size	legend-font-bold
data-label-align	legend-font-color
data-label-border-color	legend-font-face
data-label-border-style	legend-font-italic
data-label-border-weight	legend-font-size
data-label-collision-avoidance	legend-format
data-label-display-level	legend-frame
data-label-fill-color	legend-hanging-wrap
data-label-fill-type	legend-height
data-label-font-bold	legend-label-order
data-label-font-color	legend-labels
data-label-font-face	legend-num-columns
data-label-font-italic	legend-original-position
data-label-font-size	legend-position
data-label-placement	legend-rect
data-label-plot-area-method	legend-spacing
frame-rect	legend-tab1
frame-rect-3d	legend-tab2
frame-x	legend-width
frame-y	legend-wrap
grid-color	plot-3d-edge-fill-color
grid-style	plot-fill-color
grid-weight	plot-frame-style
has-shadow-color	plot-line-color

plot-line-style	xaxis-font-bold
plot-line-weight	xaxis-font-color
plot-range-fill	xaxis-font-face
plot-range-fill-axis	xaxis-font-italic
plot-range-fill-color	xaxis-font-pts
plot-range-fill-max	xaxis-font-size
plot-range-fill-max-variable	xaxis-format
plot-range-fill-min	xaxis-grid
plot-range-fill-min-variable	xaxis-grid-skip-interval
thickness	xaxis-hour-format
title	xaxis-interval
title-align	xaxis-label-method
title-font-bold	xaxis-label-orientation
title-font-color	xaxis-month-format
title-font-face	xaxis-negative-style
title-font-italic	xaxis-position-labels-between-lines
title-font-pts	xaxis-quarter-format
title-font-size	xaxis-range-maximum
title-rect	xaxis-range-method
title-variable	xaxis-range-minimum
title-x	xaxis-range-variable
title-y	xaxis-scale
units-per-inch	xaxis-thousands
xaxis-alternate-label	xaxis-tick-method
xaxis-always-display-year	xaxis-tick-number
xaxis-complete-time-periods	xaxis-tick-style
xaxis-custom-format	xaxis-title
xaxis-day-format	xaxis-title-align
xaxis-decimal	xaxis-title-font-bold
xaxis-digits	xaxis-title-font-color

xaxis-title-font-face	yaxis-tick-number
xaxis-title-font-italic	yaxis-tick-style
xaxis-title-font-pts	yaxis-title
xaxis-title-font-size	yaxis-title-align
xaxis-title-variable	yaxis-title-bold
xaxis-year-format	yaxis-title-color
xseries-variable	yaxis-title-face
y-zero-line	yaxis-title-italic
yaxis-alternate-labels	yaxis-title-size
yaxis-custom-format	yaxis-title-variable
yaxis-decimal	
yaxis-digits	
yaxis-font-bold	
yaxis-font-color	
yaxis-font-face	
yaxis-font-italic	
yaxis-font-size	
yaxis-format	
yaxis-grid	
yaxis-negative-style	
yaxis-position	
yaxis-range-maximum	
yaxis-range-method	
yaxis-range-minimum	
yaxis-range-variable	
yaxis-reduce-magnitude	
yaxis-scale	
yaxis-show-labels	
yaxis-thousands	
yaxis-tick-method	

## B.10 Attributes for the pie Chart Type

angle	label-fit
border	label-format
chart-type	label-line-color
custom-legend-box-size	label-line-method
data-label-align	label-line-width
data-label-border-color	legend-fill-color
data-label-border-style	legend-fill-transparent
data-label-border-weight	legend-font-bold
data-label-fill-color	legend-font-color
data-label-fill-type	legend-font-face
data-label-font-bold	legend-font-italic
data-label-font-color	legend-font-size
data-label-font-face	legend-format
data-label-font-italic	legend-frame
data-label-font-size	legend-hanging-wrap
explode-level	legend-height
filter-action	legend-labels
filter-amount	legend-num-columns
filter-label	legend-original-position
filter-method	legend-percentage-digits
filter-total	legend-position
frame-rect	legend-rect
frame-rect-3d	legend-spacing
frame-x	legend-tab1
frame-y	legend-tab2
has-shadow-color	legend-width
is-3d	legend-wrap

line-color  
line-width  
pie-edge-color  
pie-fill-color  
pie-fill-color-effect  
pie-size-ratio  
sort-type  
thickness  
title  
title-align  
title-font-bold  
title-font-color  
title-font-face  
title-font-italic  
title-font-pts  
title-font-size  
title-rect  
title-variable  
title-x  
title-y  
units-per-inch  
use-array

## B.11 Attributes for the progress Chart Type

border  
chart-type  
frame-rect  
frame-rect-3d  
frame-x  
frame-y  
has-shadow-color  
is-3d  
plot-3d-edge-fill-color  
show-percentage  
show-values  
thickness  
title  
title-align  
title-font-bold  
title-font-color  
title-font-face  
title-font-italic  
title-font-pts  
title-font-size  
title-rect  
title-variable  
title-x  
title-y  
units-per-inch

## B.12 Attributes for the radar Chart Type

axes-display-level	legend-height
blend-areas	legend-labels
border	legend-num-columns
chart-type	legend-original-position
custom-legend-box-size	legend-position
frame-rect	legend-rect
frame-x	legend-spacing
frame-y	legend-tab1
grid-color	legend-tab2
grid-display-level	legend-width
grid-style	legend-wrap
grid-weight	plot-fill-color
label-fit	plot-frame-style
label-format	plot-line-color
label-line-color	plot-line-style
label-line-method	plot-line-weight
label-line-width	plot-range-fill
legend-fill-color	plot-range-fill-axis
legend-fill-transparent	plot-range-fill-color
legend-font-bold	plot-range-fill-max
legend-font-color	plot-range-fill-max-variable
legend-font-face	plot-range-fill-min
legend-font-italic	plot-range-fill-min-variable
legend-font-size	polygon-radar
legend-format	title
legend-frame	title-align
legend-hanging-wrap	title-font-bold

title-font-color	xaxis-title-font-bold
title-font-face	xaxis-title-font-color
title-font-italic	xaxis-title-font-face
title-font-pts	xaxis-title-font-italic
title-font-size	xaxis-title-font-pts
title-rect	xaxis-title-font-size
title-variable	xaxis-title-variable
title-x	y-zero-line
title-y	yaxis-alternate-labels
units-per-inch	yaxis-custom-format
use-array	yaxis-font-bold
xaxis-alternate-label	yaxis-font-color
xaxis-font-bold	yaxis-font-face
xaxis-font-color	yaxis-font-italic
xaxis-font-face	yaxis-font-size
xaxis-font-italic	yaxis-grid
xaxis-font-pts	yaxis-position
xaxis-font-size	yaxis-range-maximum
xaxis-grid	yaxis-range-method
xaxis-label-orientation	yaxis-range-minimum
xaxis-position-labels-between-lines	yaxis-range-variable
xaxis-range-maximum	yaxis-reduce-magnitude
xaxis-range-method	yaxis-show-labels
xaxis-range-minimum	yaxis-thousands
xaxis-range-variable	yaxis-tick-method
xaxis-tick-method	yaxis-tick-number
xaxis-tick-number	yaxis-tick-style
xaxis-tick-style	yaxis-title
xaxis-title	yaxis-title-align
xaxis-title-align	yaxis-title-font-bold

yaxis-title-font-color  
yaxis-title-font-face  
yaxis-title-font-italic  
yaxis-title-font-size  
yaxis-title-variable

## B.13 Attributes for the range Chart Type

bar-label-orientation	label-color
bar-label-placement	legend-fill-color
bar-label-type	legend-fill-transparent
bar-percent-size	legend-font-bold
border	legend-font-color
chart-type	legend-font-face
custom-legend-box-size	legend-font-italic
data-label-align	legend-font-size
data-label-border-color	legend-format
data-label-border-style	legend-frame
data-label-border-weight	legend-hanging-wrap
data-label-fill-color	legend-height
data-label-fill-type	legend-labels
data-label-font-bold	legend-num-columns
data-label-font-color	legend-original-position
data-label-font-face	legend-position
data-label-font-italic	legend-rect
data-label-font-size	legend-spacing
frame-rect	legend-tab1
frame-rect-3d	legend-tab2
frame-x	legend-width
frame-y	legend-wrap
grid-color	line-color
grid-style	line-width
grid-weight	plot-3d-edge-fill-color
has-shadow-color	plot-fill-color
is-3d	plot-frame-style

plot-line-color	xaxis-font-italic
plot-line-style	xaxis-font-pts
plot-line-weight	xaxis-font-size
plot-range-fill	xaxis-grid
plot-range-fill-axis	xaxis-label-orientation
plot-range-fill-color	xaxis-position-labels-between-lines
plot-range-fill-max	xaxis-range-maximum
plot-range-fill-max-variable	xaxis-range-method
plot-range-fill-min	xaxis-range-minimum
plot-range-fill-min-variable	xaxis-range-variable
thickness	xaxis-tick-method
title	xaxis-tick-number
title-align	xaxis-tick-style
title-font-bold	xaxis-title
title-font-color	xaxis-title-align
title-font-face	xaxis-title-font-bold
title-font-italic	xaxis-title-font-color
title-font-pts	xaxis-title-font-face
title-font-size	xaxis-title-font-italic
title-rect	xaxis-title-font-pts
title-variable	xaxis-title-font-size
title-x	xaxis-title-variable
title-y	xseries-variable
units-per-inch	y-zero-line
use-array	yaxis-alternate-labels
xaxis-alternate-label	yaxis-custom-format
xaxis-font-bold	yaxis-font-bold
xaxis-font-color	yaxis-font-color
xaxis-font-face	yaxis-font-face
	yaxis-font-italic

`yaxis-font-size`  
`yaxis-grid`  
`yaxis-position`  
`yaxis-range-maximum`  
`yaxis-range-method`  
`yaxis-range-minimum`  
`yaxis-range-variable`  
`yaxis-reduce-magnitude`  
`yaxis-show-labels`  
`yaxis-tick-method`  
`yaxis-tick-number`  
`yaxis-tick-style`  
`yaxis-title`  
`yaxis-title-align`  
`yaxis-title-font-bold`  
`yaxis-title-font-color`  
`yaxis-title-font-face`  
`yaxis-title-font-italic`  
`yaxis-title-font-size`  
`yaxis-title-variable`

## B.14 Attributes for the scatter Chart Type

border	plot-range-fill
caption-orientation	plot-range-fill-axis
chart-type	plot-range-fill-color
data-label-align	plot-range-fill-max
data-label-border-color	plot-range-fill-max-variable
data-label-border-style	plot-range-fill-min
data-label-border-weight	plot-range-fill-min-variable
data-label-collision-avoidance	title
data-label-fill-color	title-align
data-label-fill-type	title-font-bold
data-label-font-bold	title-font-color
data-label-font-color	title-font-face
data-label-font-face	title-font-italic
data-label-font-italic	title-font-pts
data-label-font-size	title-font-size
frame-rect	title-rect
frame-x	title-variable
frame-y	title-x
grid-color	title-y
grid-style	units-per-inch
grid-weight	xaxis-alternate-label
has-shadow-color	xaxis-always-display-year
plot-fill-color	xaxis-complete-time-periods
plot-frame-style	xaxis-custom-format
plot-line-color	xaxis-day-format
plot-line-style	xaxis-decimal
plot-line-weight	xaxis-digits

<code>xaxis-font-bold</code>	<code>xaxis-title-font-italic</code>
<code>xaxis-font-color</code>	<code>xaxis-title-font-pts</code>
<code>xaxis-font-face</code>	<code>xaxis-title-font-size</code>
<code>xaxis-font-italic</code>	<code>xaxis-title-variable</code>
<code>xaxis-font-pts</code>	<code>xaxis-year-format</code>
<code>xaxis-font-size</code>	<code>xseries-variable</code>
<code>xaxis-format</code>	<code>y-zero-line</code>
<code>xaxis-grid</code>	<code>yaxis-alternate-labels</code>
<code>xaxis-hour-format</code>	<code>yaxis-custom-format</code>
<code>xaxis-interval</code>	<code>yaxis-decimal</code>
<code>xaxis-label-method</code>	<code>yaxis-digits</code>
<code>xaxis-label-orientation</code>	<code>yaxis-font-bold</code>
<code>xaxis-month-format</code>	<code>yaxis-font-color</code>
<code>xaxis-negative-style</code>	<code>yaxis-font-face</code>
<code>xaxis-position-labels-between-lines</code>	<code>yaxis-font-italic</code>
<code>xaxis-quarter-format</code>	<code>yaxis-font-size</code>
<code>xaxis-range-maximum</code>	<code>yaxis-format</code>
<code>xaxis-range-method</code>	<code>yaxis-grid</code>
<code>xaxis-range-minimum</code>	<code>yaxis-negative-style</code>
<code>xaxis-range-variable</code>	<code>yaxis-position</code>
<code>xaxis-scale</code>	<code>yaxis-range-maximum</code>
<code>xaxis-thousands</code>	<code>yaxis-range-method</code>
<code>xaxis-tick-method</code>	<code>yaxis-range-minimum</code>
<code>xaxis-tick-number</code>	<code>yaxis-range-variable</code>
<code>xaxis-tick-style</code>	<code>yaxis-reduce-magnitude</code>
<code>xaxis-title</code>	<code>yaxis-scale</code>
<code>xaxis-title-align</code>	<code>yaxis-show-labels</code>
<code>xaxis-title-font-bold</code>	<code>yaxis-thousands</code>
<code>xaxis-title-font-color</code>	<code>yaxis-tick-method</code>
<code>xaxis-title-font-face</code>	<code>yaxis-tick-number</code>

yaxis-tick-style  
yaxis-title  
yaxis-title-align  
yaxis-title-bold  
yaxis-title-color  
yaxis-title-face  
yaxis-title-italic  
yaxis-title-size  
yaxis-title-variable

## B.15 Attributes for the scattergram Chart Type

alternating-xy	frame-rect
border	frame-x
chart-type	frame-y
crosshair-line-color	grid-color
crosshair-line-style	grid-style
crosshair-line-weight	grid-weight
crosshair-type	has-shadow-color
crosshair-x	legend-fill-color
crosshair-x-variable	legend-fill-transparent
crosshair-y	legend-font-bold
crosshair-y-variable	legend-font-color
custom-legend-box-size	legend-font-face
data-label-align	legend-font-italic
data-label-border-color	legend-font-size
data-label-border-style	legend-format
data-label-border-weight	legend-frame
data-label-collision-avoidance	legend-hanging-wrap
data-label-display-level	legend-height
data-label-fill-color	legend-label-order
data-label-fill-type	legend-labels
data-label-font-bold	legend-num-columns
data-label-font-color	legend-original-position
data-label-font-face	legend-position
data-label-font-italic	legend-rect
data-label-font-size	legend-spacing
data-label-placement	legend-tab1
data-label-plot-area-method	legend-tab2

legend-width	xaxis-complete-time-periods
legend-wrap	xaxis-custom-format
overlay-flags	xaxis-day-format
plot-fill-color	xaxis-decimal
plot-frame-style	xaxis-digits
plot-line-color	xaxis-font-bold
plot-line-style	xaxis-font-color
plot-line-weight	xaxis-font-face
plot-range-fill	xaxis-font-italic
plot-range-fill-axis	xaxis-font-size
plot-range-fill-color	xaxis-format
plot-range-fill-max	xaxis-grid
plot-range-fill-max-variable	xaxis-grid-skip-interval
plot-range-fill-min	xaxis-hour-format
plot-range-fill-min-variable	xaxis-interval
title	xaxis-label-method
title-align	xaxis-label-orientation
title-font-bold	xaxis-month-format
title-font-color	xaxis-negative-style
title-font-face	xaxis-position-labels-between-lines
title-font-italic	xaxis-quarter-format
title-font-pts	xaxis-range-maximum
title-font-size	xaxis-range-method
title-rect	xaxis-range-minimum
title-variable	xaxis-range-variable
title-x	xaxis-scale
title-y	xaxis-thousands
units-per-inch	xaxis-tick-method
xaxis-alternate-label	xaxis-tick-number
xaxis-always-display-year	xaxis-tick-style

<code>xaxis-title</code>	<code>yaxis-scale</code>
<code>xaxis-title-align</code>	<code>yaxis-show-labels</code>
<code>xaxis-title-font-bold</code>	<code>yaxis-thousands</code>
<code>xaxis-title-font-color</code>	<code>yaxis-tick-method</code>
<code>xaxis-title-font-face</code>	<code>yaxis-tick-number</code>
<code>xaxis-title-font-italic</code>	<code>yaxis-tick-style</code>
<code>xaxis-title-font-pts</code>	<code>yaxis-title</code>
<code>xaxis-title-font-size</code>	<code>yaxis-title-align</code>
<code>xaxis-title-variable</code>	<code>yaxis-title-font-bold</code>
<code>xaxis-year-format</code>	<code>yaxis-title-font-color</code>
<code>xseries-variable</code>	<code>yaxis-title-font-face</code>
<code>y-zero-line</code>	<code>yaxis-title-font-italic</code>
<code>yaxis-alternate-labels</code>	<code>yaxis-title-font-size</code>
<code>yaxis-custom-format</code>	<code>yaxis-title-variable</code>
<code>yaxis-decimal</code>	
<code>yaxis-digits</code>	
<code>yaxis-font-bold</code>	
<code>yaxis-font-color</code>	
<code>yaxis-font-face</code>	
<code>yaxis-font-italic</code>	
<code>yaxis-font-size</code>	
<code>yaxis-format</code>	
<code>yaxis-grid</code>	
<code>yaxis-negative-style</code>	
<code>yaxis-position</code>	
<code>yaxis-range-maximum</code>	
<code>yaxis-range-method</code>	
<code>yaxis-range-minimum</code>	
<code>yaxis-range-variable</code>	
<code>yaxis-reduce-magnitude</code>	

## B.16 Attributes for the stacked-bar Chart Type

bar-label-orientation	is-3d
bar-label-placement	label-color
bar-label-type	legend-fill-color
bar-percent-size	legend-fill-transparent
baseline	legend-font-bold
border	legend-font-color
chart-type	legend-font-face
custom-legend-box-size	legend-font-italic
data-label-align	legend-font-size
data-label-border-color	legend-format
data-label-border-style	legend-frame
data-label-border-weight	legend-hanging-wrap
data-label-fill-color	legend-height
data-label-fill-type	legend-labels
data-label-font-bold	legend-num-columns
data-label-font-color	legend-original-position
data-label-font-face	legend-position
data-label-font-italic	legend-rect
data-label-font-size	legend-spacing
frame-rect	legend-tab1
frame-rect-3d	legend-tab2
frame-x	legend-width
frame-y	legend-wrap
grid-color	line-color
grid-style	line-width
grid-weight	overlay-flags
has-shadow-color	plot-3d-edge-fill-color

plot-fill-color	xaxis-font-face
plot-frame-style	xaxis-font-italic
plot-line-color	xaxis-font-pts
plot-line-style	xaxis-font-size
plot-line-weight	xaxis-grid
plot-range-fill	xaxis-label-orientation
plot-range-fill-axis	xaxis-position-labels-between-lines
plot-range-fill-color	xaxis-range-maximum
plot-range-fill-max	xaxis-range-method
plot-range-fill-max-variable	xaxis-range-minimum
plot-range-fill-min	xaxis-range-variable
plot-range-fill-min-variable	xaxis-tick-method
thickness	xaxis-tick-number
title	xaxis-tick-style
title-align	xaxis-title
title-font-bold	xaxis-title-align
title-font-color	xaxis-title-font-bold
title-font-face	xaxis-title-font-color
title-font-italic	xaxis-title-font-face
title-font-pts	xaxis-title-font-italic
title-font-size	xaxis-title-font-pts
title-rect	xaxis-title-font-size
title-variable	xaxis-title-variable
title-x	xseries-variable
title-y	y-zero-line
units-per-inch	yaxis-alternate-labels
use-array	yaxis-custom-format
xaxis-alternate-label	yaxis-font-bold
xaxis-font-bold	yaxis-font-color
xaxis-font-color	yaxis-font-face

`yaxis-font-italic`  
`yaxis-font-size`  
`yaxis-grid`  
`yaxis-position`  
`yaxis-range-maximum`  
`yaxis-range-method`  
`yaxis-range-minimum`  
`yaxis-range-variable`  
`yaxis-reduce-magnitude`  
`yaxis-show-labels`  
`yaxis-tick-method`  
`yaxis-tick-number`  
`yaxis-tick-style`  
`yaxis-title`  
`yaxis-title-align`  
`yaxis-title-font-bold`  
`yaxis-title-font-color`  
`yaxis-title-font-face`  
`yaxis-title-font-italic`  
`yaxis-title-font-size`  
`yaxis-title-variable`