
BarTender

What's New

Supports BarTender® v12.1

Contents

About BarTender 12.1	4
Hybrid Cloud Improvements	5
Hybrid Cloud	5
Synchronizing the Hybrid Library	5
Create Labels Dynamically Using BarTender's REST API and BTXML	7
REST Endpoints	7
Export Print Preview to an Image	7
Syntax	7
JSON Response Example	7
Get a List of Available Printers	8
Syntax	8
Examples	8
Get a Printer by Name	8
Syntax	8
Example	8
BTXML Tags	8
ExportPrintPreviewToImage Tag	8
Syntax	9
Example	9
GetAllObjects Tag	9
Syntax	9
Example	9
GetObject Tag	10
Syntax	10
Example	10
Printing Multiple PDF Files in a Single Print Job	11
Controlling Printer Offsets	12
API	12
BTXML	13
Use Provisional and Production Licenses on the Same Subnet	14
Transitioning Away from SQL Server 2014 Express LocalDB	15
Updates Made to Intelligent Forms	16
Multi-Page Forms	16
Printing	17

Using Multiple Columns on Intelligent Forms	18
Conditional Components on Intelligent Forms	18
Related Documentation	20

About BarTender 12.1

With BarTender® software by Seagull Software, organizations around the world can improve safety, security, efficiency, and compliance by creating and automating the printing of labels, barcodes, RFID tags, plastic cards, and more. Thousands of companies in manufacturing, chemicals, health care, food and beverage, aerospace, pharmaceuticals, supply chain/logistics, and other industries trust BarTender with the labeling and marking processes that keep their businesses running.

With the release of BarTender 12.1, Seagull Software continues to enhance your design and printing experience and provide easier ways to manage and administer your print operations. This document describes the most significant features that were added or improved in BarTender 12.1.

Hybrid Cloud Improvements

Hybrid Cloud

Several updates have been made to the Hybrid Cloud, including warning when a license is too close to expiration to be used, enforcing naming conventions for the Organization Name field, and automatically entering the Organization Domain ID when linking to a BarTender Cloud tenant.

- When configuring Hybrid licensing, new users must have more than 30 days remaining before their on-prem license expires in order to complete Cloud setup.
- The following naming conventions now apply to the Organization Name field.

Hybrid Cloud Setup Assistant

Create a New Cloud License

Please provide the required information to create a new Cloud license for Hybrid Cloud access.

Tenant Region:

Tenant Name:

Company Name:

Organization Name:

The Organization Name must be all lowercase, start with a-z, and end with 0-9 or a-z. It can contain 0-9, a-z, or a dash (-). Consecutive dashes (--) are not allowed. The minimum length is 5 characters, the maximum length is 62 characters.

Administrator Email:

Administrator First Name:

Administrator Last Name:

Company Phone:

Country:

Back Next Finish Cancel

- The name must be in all lowercase letters.
- The name can contain numbers, letters, or a dash (-).
- Consecutive dashes are not permitted (--).
- The name must start with a letter (a-z) and end with either a number (0-9) or a letter.
- The minimum length for the name is 5 characters.
- The maximum length for the name is 62 characters.

Name changes are limited to one every 30 days.

- When linking to a BarTender Cloud tenant, BarTender now automatically enters the Organization Name.

Synchronizing the Hybrid Library

This update improves BarTender-Cloud-to-BarTender-Labeling synchronization for Librarian workloads, ensuring that data remains aligned across products.

- The contents of BarTender Cloud's Librarian are now available to BarTender users through Print Portal and Print Station when the Hybrid Cloud is enabled. These files are also available for offline access and are fully synchronized when switching to offline mode.

To facilitate a more uniform Hybrid experience, clicking **New** in Print Portal or Print Station provides a list of items that can be created. In this list, **Data Entry Form** has been replaced by **Intelligent Form** to mirror BarTender Cloud's Librarian.



Additionally, BarTender Cloud Printer Lists and related APIs now include BarTender printers. This enables BarTender Cloud users to print to BarTender printers. The BarTender printers are listed under the Edge Printers group in the Printer dropdown in BarTender Cloud.

Create Labels Dynamically Using BarTender's REST API and BTXML

The BarTender Actions API and BTXML Script have been updated to enable users to create, save, generate, and print labels dynamically using the REST API and BTXML.

The Actions API provides REST endpoints that you can use to run a variety of actions using a BTXML script. This removes the user's dependency on templates, reduces complexity, and accelerates integration and change management. To facilitate this, three new REST endpoints and three new BTXML tags have been added to BarTender. The new endpoints are:

- Export Print Preview to an Image
- Get a List of Available Printers
- Get a Printer by Name

And the new BTXML tags are:

- DynamicLabel
- GetAllObjects
- GetObject

REST Endpoints

Export Print Preview to an Image

This endpoint exports an entire print job to one or more images. The images can be saved to one or more files and can be returned as Base64-encoded data in the response. It also enables searching and filtering via the query parameters.

Syntax

POST /api/actions/{Id}

JSON Response Example

```
{
  "Id": "f87cc941-dca5-4649-979d-fefd9abd622b",
  "Status": "RanToCompletion",
  "StatusUrl": "http://localhost:5159/api/actions/f87cc941-dca5-4649-979d-fefd9abd622b",
  "Messages": [
    "[2026/5/25 09:16:19]\t[Information]\tExported 10 page(s) in JPEG format (559x396 pixels). Saved to file(s): Basic_2x4_MultiPage_1.png ~ Basic_2x4_
```

```
MultiPage_10.jpg.png has been exported. (The export has been reduced from 20
pages due to the MaxPreviewPageLimit setting.)",
"[2026/5/25 09:16:14]\t[Information]\tExported 8 page(s) in JPEG format
(559x396 pixels). 'ExportPrintPreviewToImageAction'."
]
}
```

Get a List of Available Printers

This endpoint retrieves a list of available printers on the host. It enables searching and filtering via query parameters.

Syntax

GET /api/devices/printers

Examples

```
GET
/api/devices/printers?RealTimeClientStatus=Ready&sort=name&offset=10&limit=5
```

```
GET /api/devices/printers?name=Zebra&modelName=ZT410&location=Warehouse-
1&RealTimeClientStatus=Ready&sort=name&limit=50&offset=0
```

Get a Printer by Name

This endpoint retrieves the status of the specified printer.

Syntax

GET /api/devices/printers/{printerName}

Example

```
GET /api/devices/printers/?name=Zebra&sort=name
```

BTXML Tags

ExportPrintPreviewToImage Tag

This tag exports an entire print job to one or more images. The images can be saved to one or more files and can be returned as Base64-encoded data in the response.

Syntax

```
<ExportPrintPreviewToImage ReturnImageInResponse=Value>...  
</ExportPrintPreviewToImage>
```

Where ... is replaced with the tags that are contained in the command.

Example

```
<?xml version="1.0" encoding="utf-8"?>  
<XMLScript Version="2.0" Name="09232006_103601_Job1" ID="123">  
  <Command Name="Job1">  
    <ExportPrintPreviewToImage ReturnImageInResponse="true">  
      <Format>c:\format1.btw</Format>  
      <Folder>c:\Images</Folder>  
      <FileNameTemplate>Preview_Label%PageNumber%.jpg</FileNameTemplate>  
      <ImageFormatType>JPG</ImageFormatType>  
      <Colors>btColors24Bit</Colors>  
      <DPI>300</DPI>  
      <Overwrite>true</Overwrite>  
      <IncludeMargins>true</IncludeMargins>  
      <IncludeBorder>true</IncludeBorder>  
      <BackgroundColor>16777215</BackgroundColor>  
    </ExportPrintPreviewToImage>  
  </Command>  
</XMLScript>
```

If the print job consists of multiple pages, each page is saved as a unique image file with a file name that includes the words "Preview Label" and the page number.

Each time an <ExportPrintPreviewToImage> command is passed to BarTender, one or more image files are created in the target folder, and an XML response is generated.

GetAllObjects Tag

This tag pulls all object information from a BarTender document.

Syntax

```
<GetAllObjects [Query=All/DataSources/Properties]>...</GetAllObjects>
```

Where ... is replaced with the tags that are contained in the command.

Example

```
<?xml version="1.0" encoding="utf-8"?>  
<XMLScript Version="2.0" ID="271032f3-0e3a-423d-90e7-1c3676cf9c09">  
  <Command>  
    <GetAllObjects Query="All">
```

```
<Format>C:\Labels\HIBCC-Primary_and_secondary_data.btw</Format>
</GetAllObjects>
</Command>
</XMLScript>
```

GetObject Tag

This tag pulls object information from a BarTender document.

Syntax

<GetObject [*Name=Name*][*Query=All|DataSources|Properties*]>...</GetObject>

Where ... is replaced with the tags that are contained in the command.

Example

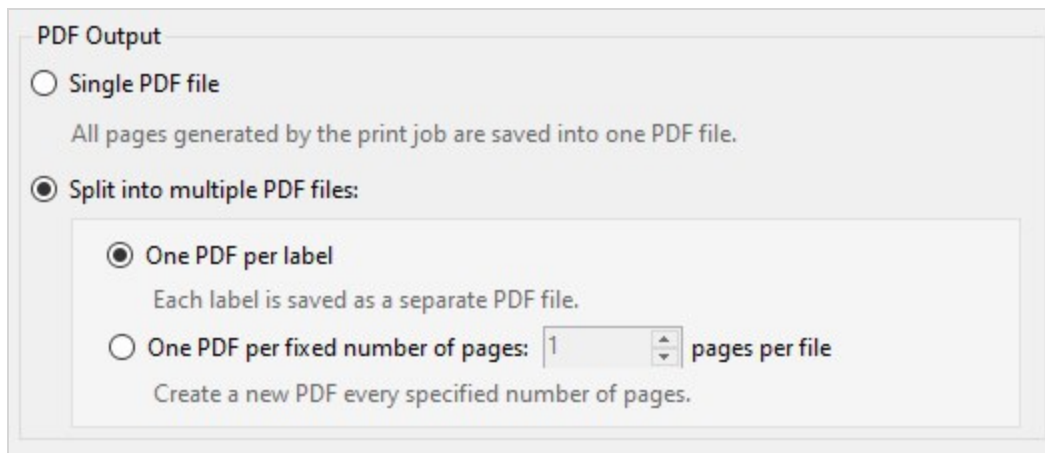
```
<?xml version="1.0" encoding="utf-8"?>
<XMLScript Version="2.0" ID="dc849df1-bff4-417b-ba55-731ef1d11e15">
  <Command>
    <GetObject Name="Text 1" Query="All">
      <Format>C:\Labels\ExistingLabel.btw</Format>
    </GetObject>
  </Command>
</XMLScript>
```

Printing Multiple PDF Files in a Single Print Job

BarTender has expanded PDF output from a single, static artifact to a configurable workflow, enabling new automation scenarios and alleviating operational friction for enterprise customers.

This change introduces configurable PDF splitting directly within the BarTender print process, which enables users to control how PDF files are generated from a single print job.

From the Print dialog, click **Export Options** to open the Export Options dialog.



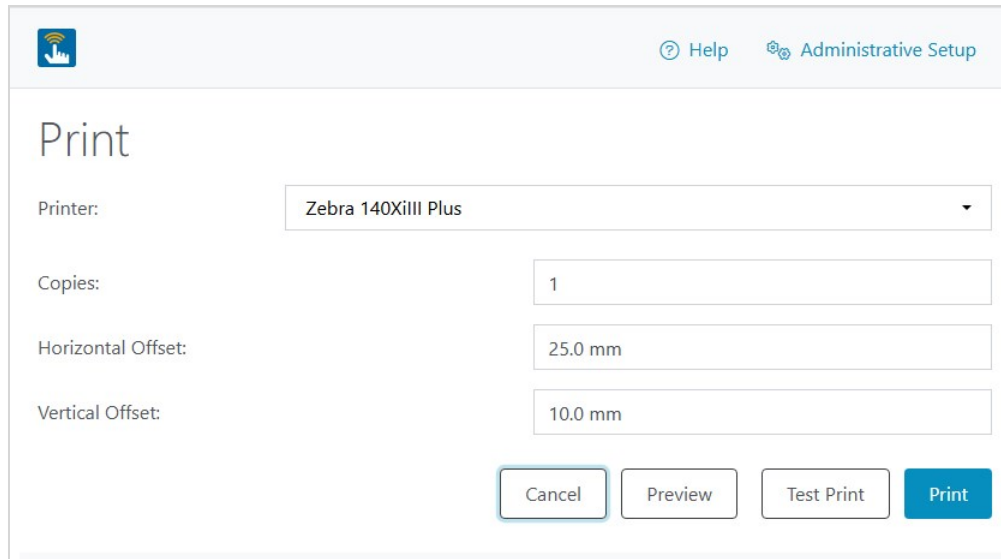
The screenshot shows the 'PDF Output' section of a dialog box. It contains two main radio button options. The first is 'Single PDF file', which is currently unselected; below it is the text 'All pages generated by the print job are saved into one PDF file.' The second is 'Split into multiple PDF files:', which is selected. This option is expanded to show two sub-options: 'One PDF per label', which is selected, with the text 'Each label is saved as a separate PDF file.' below it; and 'One PDF per fixed number of pages:', which is unselected, followed by a text input field containing the number '1', a 'pages per file' label, and the text 'Create a new PDF every specified number of pages.'

- Select the **Single PDF File** option to use BarTender's current default behavior where a single PDF containing all labels is generated.
- Select the **Split into Multiple PDF Files** option to define how the generated pages are grouped into separate PDF files.
 - Select **One PDF per Label** to create a single PDF file for each label in the print job.
 - Select **One PDF per Fixed Number of Pages** and specify the number of pages included in each file. This produces the required number of PDF files determined by the size of the print job and the specified pages per file.

Controlling Printer Offsets

BarTender's horizontal and vertical offsets feature has been expanded to include Print Portal and Print Station.

When printing labels, users often encounter minor alignment issues like a misaligned print head or stock. Print Portal and Print Station now enable users to manipulate horizontal and vertical offsets from the Print window to precisely control the placement of the label on the stock. Offset settings are for the current print run only. Once the Print page is closed, the values in these fields revert to the values defined in the printer.



The screenshot shows the 'Print' window in BarTender. At the top, there is a header bar with a logo on the left and 'Help' and 'Administrative Setup' links on the right. The main title 'Print' is centered. Below it, the 'Printer:' field is set to 'Zebra 140XiIII Plus'. The 'Copies:' field is set to '1'. The 'Horizontal Offset:' field is set to '25.0 mm'. The 'Vertical Offset:' field is set to '10.0 mm'. At the bottom, there are four buttons: 'Cancel', 'Preview', 'Test Print', and 'Print'.

Print offsets can be enabled or disabled in the Admin Console on the Printer Setup tab in the Override Settings at Print Time section. Select the Allow Users to Override Printer Settings When Sending Job to Printer checkbox to enable print offsets in the printers that allow them.



By default, the offsets are measured using the default unit of measure assigned in BarTender.

API

You can also use BarTender's REST API to set printing offsets. Use the **PrintBTWAction** action to control the position of the label on the stock.

```
[{"PrintBTWAction":
{
  Document: "C:\\Labels\\Document.btw",
  CloseDocumentAfterPrint: true,
```

```

    QueueAndContinue: true,
    Printer: "Zebra 140XiIII Plus",
    HorizontalOffset: "0.2 in",
    VerticalOffset: "0.1 in",
    Copies: 1,
    JobName: "Test Job",
    UseDatabase: false
  }
}]

```

BTXML

You can also deliver printer offsets in a BTXML payload using the <PrinterSettings> tag.

```

<?xml version="2.0" encoding="utf-8"?>
<Command>
  <PrintSaveAfterPrintCondition="IfSerialized">
    <FormatRegenerateThumbnail="false" SaveAtEndOfJob="true" CloseAtEndOfJob="false">C:\\Labels\\Document1.btw</Format>
  <PrintSetup>
    <Printer>Zebra ZT411R (300 dpi)</Printer>
    <PrintSettings>
      <HorizontalOffset Unit="in">0.1</HorizontalOffset>
      <VerticalOffset Unit="in">0.2</VerticalOffset>
    </PrintSettings>
    <PrintToFile>>false</PrintToFile>
    <IdenticalCopiesOfLabel>1</IdenticalCopiesOfLabel>
  </PrintSetup>
</Print>
</Command>
</XMLScript>

```

Use Provisional and Production Licenses on the Same Subnet

Starting with BarTender 11.4, Provisional Activations were more difficult for users to work with, mainly because the Provisional Activation had to be on a different subnet than the fully activated license. As a result,

- if both the production and provisional license servers were visible on the same subnet, users were automatically connected to the production license;
- users were prevented from switching to the provisional license;
- which prevented users from performing controlled testing and migration in environments where separate subnets could not be created.

This updated feature enables users to intentionally select and persist a provisional license connection when both servers are visible on the same subnet. The following changes have been made to BarTender licensing:

- Users can now select and persist a provisional license connection when both servers, production and provisional, are visible on the same subnet.
- The last selected license, production or provisional, remains active until it expires or is changed.
- Before a provisional license ends, BarTender displays an expiration warning.
- When a production or provisional license expires, BarTender displays a grace period notification.

When two different minor versions of BarTender are running simultaneously, for example a system running BarTender 12.0 (production) and BarTender 12.1 (provisional), the two versions do not interfere with each other.

Transitioning Away from SQL Server 2014 Express LocalDB

BarTender has removed its dependency on SQL Server 2014 Express LocalDB and transitioned to SQL Server 2025. Using the supported database version reduces the risk of security vulnerabilities and helps customers meet compliance requirements.

Some of the benefits of transitioning away from SQL Server 2014 Express LocalDB:

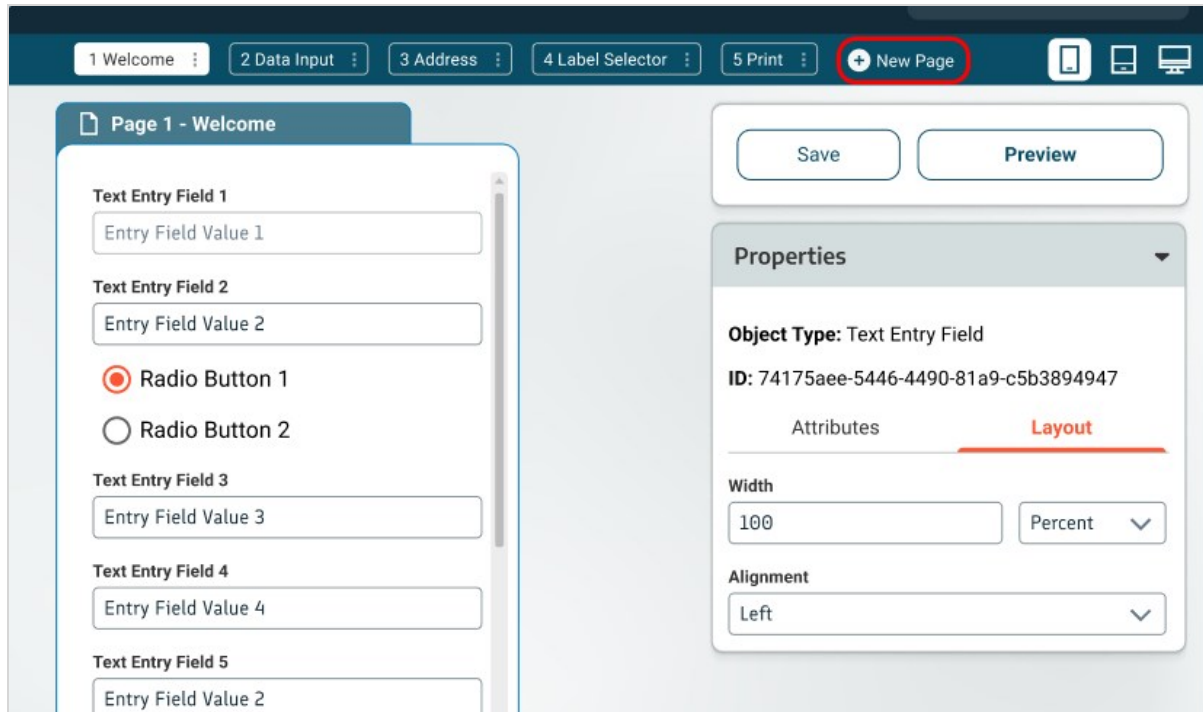
- Removes reliance on end-of-life software
- Reduces upgrade and compatibility risk in future releases
- Enterprise customers benefit if they have had issues related to non-supported versions

Updates Made to Intelligent Forms

Several new features have been added to the Intelligent Form Builder. Some features (marked below) will not be available until BarTender Cloud 12.4 releases in September.

Multi-Page Forms

You can now create and manage multiple pages within a form so that longer forms can be divided into logical, step-based sections. You can have up to five pages in a form.



Click the **New Page** button to add a page to the form. The Intelligent Form Builder adds the new page as the last page in the series.

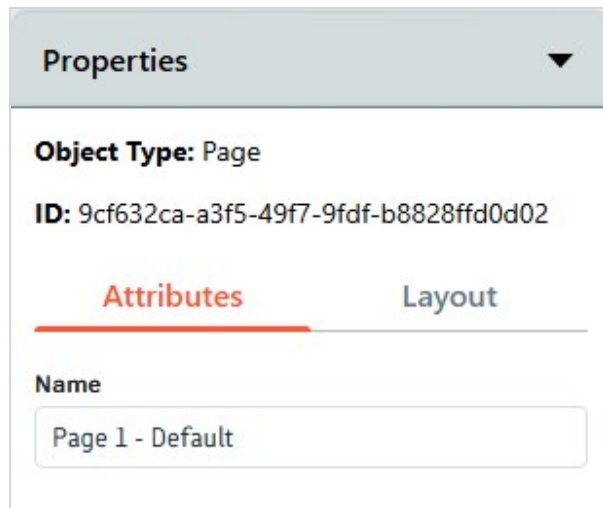
- **+ New Page**: Add up to 4 additional pages to the current form.
- **Page 1** **Page 2**: Move between pages on a form.

You can reposition the pages on the form, moving them up or down the order. To reposition a tab:

- Click the tab of the page you want to move, then drag it to a new position.

Reordering pages changes the linear sequence of the form and directly impacts print-time navigation order and the progress indicator.

You can also rename a page within a form by selecting the tab of the page you want to work with and changing the Name field on the Properties panel.

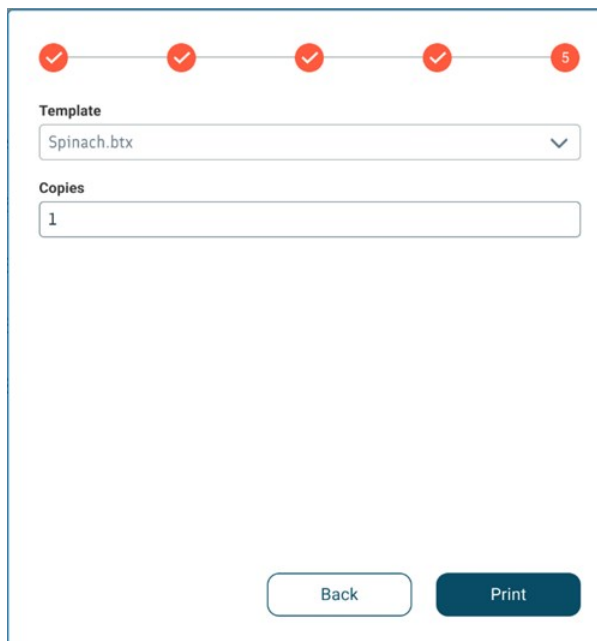


The Properties panel is a light gray box with a title bar labeled 'Properties' and a downward arrow. It contains the following information:

- Object Type:** Page
- ID:** 9cf632ca-a3f5-49f7-9fdf-b8828ffd0d02
- Two tabs: **Attributes** (highlighted with a red underline) and **Layout**.
- Name:** A text input field containing 'Page 1 - Default'.

Printing

- The progress indicator reflects the linear order of pages and is rendered automatically at print time. It is a form-level setting and applies consistently to all pages.



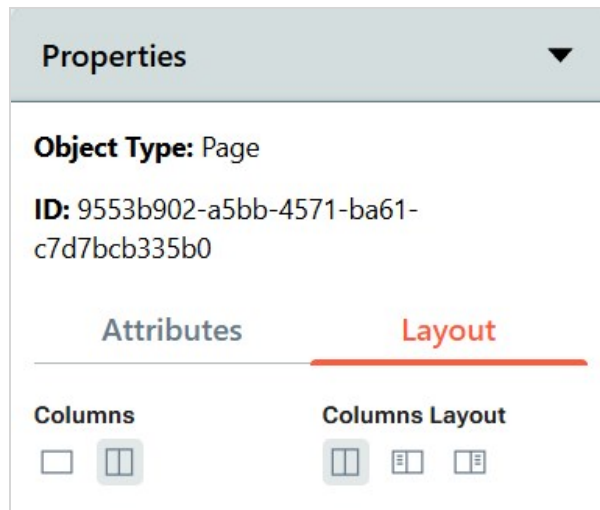
The Print settings dialog is a light blue box with a blue border. It features a progress indicator at the top with five red circles; the first four contain white checkmarks, and the fifth contains the number '5'. Below the progress indicator are two input fields:

- Template:** A dropdown menu showing 'Spinach.btx' with a downward arrow.
- Copies:** A text input field containing the number '1'.

At the bottom of the dialog are two buttons: a light blue 'Back' button and a dark blue 'Print' button.

Using Multiple Columns on Intelligent Forms

When you create a form you can determine whether the pages use one column or two. After you create a form, click its tab to display the page properties, then click the Layouts tab.



Select the number of columns

- : Select to display a single column on the page.
- : Select to display two columns on the page.

Select the column's layout

- : Select to make the columns the same size.
- : Select to make the left column thinner than the right column.
- : Select to make the right column thinner than the left column.

Columns are set for individual pages so a form can use both single and multi-column pages.

Conditional Components on Intelligent Forms

(Available after BarTender Cloud 12.4 is released in September)

Intelligent Form Builder can now use conditional rules to display, enable, or make required a form component only when a certain condition is met. Each component can only have one conditional rule defined for it. However, a page may have more than one component with a conditional rule attached.

There are three attributes that can become conditional components:

Enabled	☒	
Required	☐	
Visible	☒	

Any control containing one or more of these attributes can have a conditional rule defined for the attribute.

Click  beside the attribute you want to define a rule for to open the {Type} Rule dialog. In the dialog, select the component name, condition, and option or value for the rule.

Visibility Rule

Visible When

Respond1

equals

Agree

Remove

Cancel

Save

In this example, this control is only visible when the option Agree is selected in the control Respond1.

A component may also be the target of more than one conditional rule. For example, two controls can each have visible rules defined to hide them when Agree is selected in the Respond group of a radio buttons (the target of the two rules),

Respond
☒ Agree
☐ Disagree

Conditional rules can be modified after they have been defined by clicking  and selecting new values in the dropdowns.

Related Documentation

Technical Documents

To view and download technical documents, visit:

<https://www.bartendersoftware.com/resources/library>

BarTender Help System

- [Introduction to BarTender](#)
- [Getting Started with BarTender](#)

Other Resources

Please visit the BarTender website at <https://www.bartendersoftware.com>.

- Please visit the [Getting Started with BarTender](#) page on the BarTender Support Portal website.

bartendersoftware.com

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