



White Paper

## What's New in BarTender 10.0

Card Printing, Advanced Drawing Functions,  
Major User-Interface Improvements,  
Data Type Support and more.

## Contents

<b>Summary of BarTender 10.0 .....</b>	<b>7</b>
Important Terminology Changes .....	7
<b>BarTender Now Also Prints Plastic Cards .....</b>	<b>7</b>
<b>Major User Interface Improvements .....</b>	<b>7</b>
Brand New Properties Dialog .....	7
Brand New “Transforms” Pane .....	8
More Detailed Embedded Revision Log.....	8
New Line and Shape Formatting Toolbar.....	8
WYSIWYG Cropping of Graphics .....	8
Rotate Design View Function .....	8
More Versatile Mouse Functionality .....	8
<b>Very Powerful, High-End Drawing Capabilities .....</b>	<b>8</b>
Improved Line Drawing, including Arrows .....	9
Fully Controllable Transparency .....	9
More than 15 New Classes of Shapes .....	9
Remarkable Variety of Options for Filling Shapes .....	9
New Rectangle Options.....	9
<b>Borders and Fills for Objects .....</b>	<b>10</b>
<b>Data Type Support .....</b>	<b>10</b>
<b>Brand New, Easier Creation of Template Objects .....</b>	<b>10</b>
<b>Major Improvements in Font and Text Formatting .....</b>	<b>10</b>
Improved Paragraph Line Spacing.....	10
More Powerful Word Processor Objects .....	11
Search and Replace Data Transform.....	11
<b>Improved Graphic Support.....</b>	<b>11</b>
<b>Far More Flexible Document Format .....</b>	<b>11</b>
<b>RFID Support Now Provided in Professional Edition .....</b>	<b>11</b>
<b>Greatly Expanded Librarian Integration .....</b>	<b>11</b>
<b>New Simplified and Integrated Installer.....</b>	<b>12</b>
<b>Improved Document Management.....</b>	<b>12</b>
<b>Additional New Features .....</b>	<b>12</b>
 <b>BarTender Now Also Prints Plastic Cards .....</b>	 <b>13</b>
True “One-Stop Shopping” .....	13
Powerful “Smart Card” Support .....	14
Magnetic Stripe Encoding.....	14
Ready-to-Use Print-Time Image Capture.....	15
Automatic Template Switching .....	16
Support for Major Card Printers.....	16

<b>Improved User Interface.....</b>	<b>16</b>
<b>Faster, Easier Properties Dialog.....</b>	<b>16</b>
“OK” Button Replaced with Instant Feedback .....	17
New Properties Navigation Pane.....	18
Easier View and Modification of Data Sources .....	19
Easier Access to “Advanced” Data Sourcing Options .....	19
New “Data Source” User Interface and Wizards .....	19
Convenient New Data “Transforms” Pane .....	20
New Transform Organization .....	22
New Transforms.....	23
<b>Simplified Editing of Groups and Multiple Objects .....</b>	<b>24</b>
The Old Approach .....	24
The New Approach.....	25
Easily Browse Individual Properties for All Objects .....	26
<b>Optional Display of Object Names .....</b>	<b>27</b>
<b>More Detailed Embedded Revision Log .....</b>	<b>27</b>
<b>New Line and Shape Formatting Toolbar .....</b>	<b>29</b>
<b>WYSIWYG Cropping of Graphics.....</b>	<b>29</b>
<b>Rotate Design View Function.....</b>	<b>30</b>
<b>More Versatile Mouse Functionality.....</b>	<b>31</b>
Added center mouse button pan .....	31
More Precise Zoom Option .....	31
Mouse Button Four Emulates Shift Key .....	31
<b>Very Powerful, High-End Drawing Capabilities .....</b>	<b>31</b>
<b>Improved Line Drawing, including Arrows.....</b>	<b>32</b>
35 different types of dashes .....	32
6 types of compound lines.....	33
26 resizable end caps (including various arrow styles) .....	33
Fully controllable transparency.....	33
<b>More than 15 New Classes of Shapes .....</b>	<b>33</b>
<b>More Rectangle Options.....</b>	<b>35</b>
<b>Borders and Fills for Objects .....</b>	<b>36</b>
Advanced Border Features .....	38
<b>Data Type Support .....</b>	<b>39</b>
<b>Brand New, Easier Creation of Template Objects .....</b>	<b>40</b>
Our Reasons for Upgrading Object Creation .....	40
More about the Older Methods of Selecting Bar Codes .....	40
<b>Beautiful and Very Helpful New Dialog for Bar Code Creation .....</b>	<b>42</b>

<b>Brand New Create “Encoder” Toolbar Button.....</b>	<b>44</b>
Support for RFID, Magnetic Stripe, and SmartCards all Based on “Encoders” .....	44
A Smart, Multi-Function Create Encoder Button .....	45
<b>Unified Text Creation Toolbar Button .....</b>	<b>46</b>
Rich Text Objects Now Called “Word Processor” Objects .....	47
New Treatment for Insertion of RTF, HTML and XAML Mark-up Content .....	48
<b>Time Saving New Create Picture Object Menu.....</b>	<b>48</b>
 <b>Major Improvements in Font and Text Formatting.....</b>	 <b>51</b>
<b>Professional Font Formatting .....</b>	<b>52</b>
Custom Spacing Adjustment .....	52
Kerning of TrueType Fonts.....	52
Outlines for TrueType Fonts.....	53
<b>Improved Paragraph Line Spacing .....</b>	<b>54</b>
“Custom” Changed to “Exactly” .....	54
Four New Line Spacing Settings.....	54
<b>More Powerful Word Processor Objects.....</b>	<b>55</b>
Table Support .....	55
Advanced Text Effects .....	55
<b>Search and Replace Data Transform.....</b>	<b>56</b>
Much More than just “Search and Replace” .....	57
Support for Regular Expressions .....	58
Available in Commander Too! .....	58
 <b>Graphic Import Improvements .....</b>	 <b>58</b>
<b>Import and Export PDF.....</b>	<b>58</b>
<b>Large, Royalty-free Clip Art Collection.....</b>	<b>58</b>
How the Clip Art Browser Works.....	59
<b>Print-Time Graphics Import from Access Databases .....</b>	<b>61</b>
 <b>Far More Flexible Document Format .....</b>	 <b>61</b>
<b>New Document Terminology .....</b>	<b>61</b>
Documents .....	61
Templates.....	61
<b>BarTender Documents Can Now Have Multiple Templates.....</b>	<b>61</b>
Easy to Add Additional Templates .....	62
Powerful New Template Tab and Navigator .....	62
Easy to Reorder Multiple Templates .....	63
Conditional Template Printing.....	63
Start and End of Job Templates .....	66

<b>RFID Support Now Provided in Professional Edition .....</b>	<b>66</b>
<b>Greatly Expanded Librarian Integration .....</b>	<b>66</b>
<b>Improved BarTender Integration with Librarian.....</b>	<b>66</b>
BTXML Scripts.....	66
BarTender Batch Files .....	67
Compatibility with BarTender's Default Document Paths.....	67
<b>History Explorer Integration with Librarian.....</b>	<b>67</b>
<b>Batch Maker Integration with Librarian .....</b>	<b>67</b>
<b>Commander Integration with Librarian.....</b>	<b>67</b>
<b>New Simplified and Integrated Installer .....</b>	<b>67</b>
<b>Smarter Install Process .....</b>	<b>68</b>
Basic and Professional Editions.....	68
Automation Editions.....	68
BarTender Web Print Server.....	69
<b>Improved BarTender Download Options .....</b>	<b>69</b>
Install from the Web.....	69
Full Download .....	69
<b>Improved Document Management.....</b>	<b>69</b>
<b>Expanded Support for Windows Explorer Thumbnail Previews .....</b>	<b>69</b>
Now Supports 64-bit Versions of Windows.....	70
BarTender "Component" Files now Supported .....	70
<b>Customizable Previews .....</b>	<b>70</b>
<b>Viewing of Documents Can Now be a Protected Action.....</b>	<b>70</b>
<b>More Convenient Document Management Functions .....</b>	<b>71</b>
<b>Additional New Features .....</b>	<b>71</b>
<b>Improved Search and Replace Transform in Commander .....</b>	<b>71</b>
Search and Replace Upgraded with all of BarTender's New Functionality.....	71
<b>New Export Functions for History Explorer .....</b>	<b>72</b>
Export and Print Logs .....	72
Export BarTender Documents.....	72
<b>Improved Weighing Scale Features.....</b>	<b>72</b>
Automatic Print After Capture .....	72
Easier to Modify Existing Scale Models and Protocols.....	73
<b>Log User Name to a Text File .....</b>	<b>74</b>
<b>Support for Print Quantity Commands Beyond Four Billion .....</b>	<b>74</b>
<b>Expanded Printer Function in the Print SDK.....</b>	<b>75</b>
<b>Improved Time/Date Support.....</b>	<b>75</b>

Support for Fractions of Seconds .....	75
Support for ISO 8601 Date/Time Format .....	75
<b>Full Color Screen Cursors.....</b>	<b>75</b>
<b>Luhn Check Digit Function Added to VB Script .....</b>	<b>75</b>

## Summary of BarTender 10.0

BarTender version 10 is being launched almost exactly 25 years after the very first version of BarTender debuted. As you read through the extensive list of new features, you can clearly see all those years of experience coming together into the biggest software release in our history.

This first section summarizes the new release. The remainder of this document discusses the new features and capabilities in greater detail, accompanied by numerous screen shots and illustrations.

### **Important Terminology Changes**

The chapter “Far More Flexible Document Format” explains why we no longer use the single term “label format” to describe both the file you save to disk *and* the designs you create on screen and send to your printer. We now use these new terms instead:

- The document that BarTender saves to disk is now simply called a “BarTender Document.”
- The design that you create in BarTender is now called a “Template.”

## BarTender Now Also Prints Plastic Cards

BarTender version 10 introduces a powerful set of features dedicated to the design and printing of ID cards, employee security badges, membership cards and just about any other plastic card you can think of. This is no lightweight “first step” in the direction of card printing, but an industry-leading set of card printing features that includes:

- Print-time image capture
- “Smart Card” functionality (RFID and contact)
- Magnetic stripe support
- Automatic switching between templates
- Windows Printer Drivers by Seagull™ for Major Card Printers
- Two-sided design (first available in v9.4)

## Major User Interface Improvements

We reviewed BarTender’s user-interface from top to bottom and gave it a major facelift. This included adding numerous new features as well as improving many existing ones, as summarized here.

### **Brand New Properties Dialog**

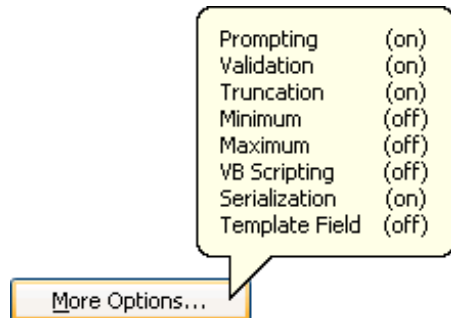
The **Properties** dialog (previously called **Modify**) is much faster and easier to use.

- Instant on-screen feedback in response to your changes. (No need to click **OK** first!)
- The new **Properties** navigation pane simplifies access to the desired object properties.

- Easier view and modification of Data Sources, including new wizards.
- Much quicker and easier to access “Advanced” data sourcing options.
- Simplifies making changes when multiple objects and “groups” are selected.

### **Brand New “Transforms” Pane**

The new **Transforms** pane in the **Properties** dialog makes it much quicker and easier to manage the filtering of data sources. Previously, these functions were performed within the old **More Options** dialog (shown below for reference).



Prior to BarTender version 10, data transforms were handled inside the More Options dialogs.

### **More Detailed Embedded Revision Log**

BarTender can now save more details about your revisions into the optional Embedded Revision Log.

### **New Line and Shape Formatting Toolbar**

Modify line thickness, dash style and compound style directly from the toolbar.

### **WYSIWYG Cropping of Graphics**

Crop graphics simply by defining a rectangle with your mouse.

### **Rotate Design View Function**

Easily rotate the *view* of the template 90 degrees without actually rotating the objects relative to the template. This is especially helpful when some objects are aligned with the portrait orientation and others are aligned with the landscape orientation.

### **More Versatile Mouse Functionality**

- Added center mouse button pan
- More precise zoom option
- Mouse button four emulates Shift key

## **Very Powerful, High-End Drawing Capabilities**

While BarTender is still not ready to replace Adobe Illustrator for your highest-end graphic design challenges, BarTender version 10 *significantly* narrows the gap.



### **Improved Line Drawing, including Arrows**

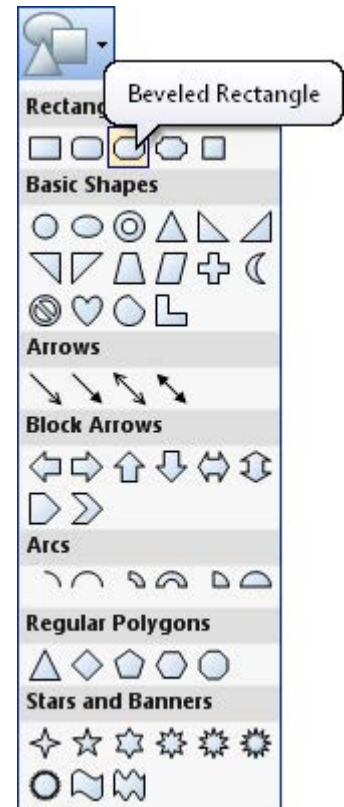
- 35 different types of dashes
- 6 types of compound lines
- 26 resizable end caps (including various arrow styles)

### **Fully Controllable Transparency**

Any object except for barcodes can be set to a transparency value between 0% and 100%.

### **More than 15 New Classes of Shapes**

- Diamonds
- Trapezoids
- Parallelograms
- Rings
- Hearts
- Block Arrows
- Arcs
- Stars
- Banners
- Regular Polygons, including:
  - Triangles
  - Squares
  - Pentagons
  - Hexagon
  - Octagon
  - And so on...



### **Remarkable Variety of Options for Filling Shapes**

Shapes, borders, lines and text can all be filled with any of the following:

- Gradients
- Patterns
- Pictures
- Textures

### **New Rectangle Options**

- Choose from five different predefined corner styles.
- Customize any of the corner styles.
- Mix different corner styles within the same rectangle

## **Borders and Fills for Objects**

Add any of a variety of automatic border types around barcodes, text or graphics. Custom fill these borders and objects as desired. Custom borders placed around a graphic automatically crop the graphic to the shape of the custom border.

## **Data Type Support**

BarTender is no longer limited to treating all of your data as just “text.” With powerful support for data types, BarTender can now perform more advanced validation and mathematical functions on your data.

## **Brand New, Easier Creation of Template Objects**

The methods for creating some of your most important template objects have been completely rethought from the ground up. The new approach significantly increases the likelihood that that your template objects start out with the exact options you need when you first create them, so you don't need to customize and tweak them as much to complete your template design. Improved processes include:

- The creation of barcodes.
- The insertion of RFID and smart card “encoder” objects.
- The creation of multiple types of text.
- The importing and sourcing of picture graphics from files, scanners and external data sources.

## **Major Improvements in Font and Text Formatting**

BarTender version 10 introduces a number of font and text formatting functions previously seen only in high-end desktop publishing applications such as Adobe InDesign and Illustrator. These include:

- Custom Character Spacing Adjustment
- Kerning of OpenType/TrueType Fonts
- Outlines for OpenType/TrueType Fonts

## **Improved Paragraph Line Spacing**

To the existing four line spacing settings, BarTender version 10 adds four new ones:

- At Least
- 1.5 Lines
- Times
- Uppercase

### **More Powerful Word Processor Objects**

BarTender's Word Processor objects (formerly called Rich Text objects) are even more powerful than before, including:

- Table support
- Advanced text effects, including:
  - Mirror
  - Transparency
  - Negative

### **Search and Replace Data Transform**

The new **Search and Replace** transform enables BarTender to automatically make numerous custom changes to the data it reads during your print jobs.

### **Improved Graphic Support**

- **PDFs Now Supported:** Supports both import and export.
- **New Clip Art Browser:** Directly imports graphics from a large, searchable on-line resource of royalty-free clip art.
- **BLOB Support for Access:** Graphics can now be imported from Access databases at print time.

### **Far More Flexible Document Format**

BarTender can now save multiple *template* designs within a single BarTender document. Using Template Selectors and Conditional Template Printing, BarTender can automatically switch between these template(s) depending on the data read from your database or input from a form.

### **RFID Support Now Provided in Professional Edition**

Previously, RFID support was only available in the Automation and Enterprise Automation editions.

### **Greatly Expanded Librarian Integration**

When any of the following document types are stored in Librarian, they can now be accessed by BarTender.

- BTXML Scripts
- BarTender Batch Files

In addition, the **Folder and File Locations Setup** dialog of BarTender's **Administer** menu can now optionally specify default BarTender search paths into Librarian for:

- Pictures
- Background Pictures
- Documents
- Batch Files
- XML Scripts

In addition, integration of three Companion Applications with Librarian has been added or improved as follows:

- History Explorer (improved)
- Batch Maker (newly added)
- Commander (newly added)

## **New Simplified and Integrated Installer**

The new install program is much faster and easier to use. It also allows us to offer faster and more flexible options for download of BarTender from our web site.

## **Improved Document Management**

- Expanded Support for Windows Explorer Thumbnail Previews
- Customizable Previews
- Viewing of Documents Can Now be a Protected Action
- More Convenient Document Management Functions

## **Additional New Features**

BarTender version 10.0 also includes the following additional features:

- Improved Search and Replace Transform in Commander
- New Export Functions for History Explorer
- Improved Weighing Scale Features
- Log User Name to a Text File
- Support for Print Quantity Commands Beyond Four Billion
- Expanded Printer Function in the Print SDK
- Improved Time/Date Support
- Full Color Screen Cursors
- Luhn Check Digit Function Added to VB Script

The generously-illustrated content that follows describes all of the features you have just read about, but in much greater detail.

### BarTender Now Also Prints Plastic Cards

Long before Seagull Scientific developed its first “official” card printing features, some end-users were already using BarTender to print cards. This is because many of the capabilities needed to design and print cards overlap with what is required for labels. The fact is, however, that truly professional card printing requires a variety of features not previously available in BarTender until now.

BarTender version 10 does not merely take a lightweight “first step” in the direction of card printing. The new version delivers a rich, powerful set of card printing features more than two years in the making, including numerous features required for the most demanding high-tech security systems in operation today. This includes:

- Print-time image capture
- Automatic switching between templates (designs)
- “Smart Card” functionality (RFID and contact)
- Magnetic stripe support
- Windows Printer Drivers by Seagull™ for Major Card Printers
- Two-sided design (first available in v9.4)

#### A NOTE ABOUT “CARDS” VS. “PLASTIC CARDS”

We introduced this section with the term “plastic cards” to make it clear that we are referring to cards such as ID cards, rather than business cards (although you *can* also print business cards using BarTender – even on plastic). Most typically, however, we will just use the simple term “cards.”

### True “One-Stop Shopping”

You no longer need one software package to design and print labels and another one for plastic cards. The main difference is simply the type of printer. So why bother learning two different software packages when BarTender can do it all? This includes:

- ID Cards
- Access Badges
- Employee Security Badges
- Gift Cards
- Loyalty Cards

- Membership Cards
- Licenses
- Fundraising Cards
- Business Cards

Plus, the Companion Applications provided with BarTender (such as Librarian, Commander, History Explorer, Security Center and more) offer you powerful, high-end features that are simply unavailable with any other card printing application.

## Powerful “Smart Card” Support

Today’s “smart cards” show off some of the most exciting technology seen in automatic identification today. And BarTender 10 already has the advanced capabilities you need, including support for two types of onboard memory:

- Contactless (or RFID)
- Contact (or “touch”).



## Magnetic Stripe Encoding

With appropriately-equipped printers, BarTender also supports print-time encoding of the ISO and JIS II magnetic stripe standards.

## Ready-to-Use Print-Time Image Capture

To do it yourself, integrating the various hardware and software components required to incorporate the capture of photographs and other graphic scans into the production of ID cards is a tedious and time-consuming process. Fortunately, BarTender has already done this for you, including:

- Real-time image capture from video cameras, including live preview. (Supports DirectShow and Video for Windows (VFW).)
- Interface to most digital cameras and scanners. (Supports WIA, TWAIN, and browsing for a file.)
- Automatic face detection and centering
- On-command image capture
- Data entry forms to accept user data from the keyboard
- Versatile database connectivity
- Works stand-alone or from within your other software





## Automatic Template Switching

BarTender version 10.0 now supports:

- Multiple templates (designs) per document.
- Conditional printing for each template in a BarTender document.

These two features now allow BarTender to automatically switch from using one template to using another based on a value read from a database field or typed into a data-entry form. So, for example, if you offer separate gold, silver and bronze membership cards to your clients, BarTender can automatically select and output the right one for you at print time. (For more detail, please see the separate section called “Conditional Template Printing,” later in this document.)

## Support for Major Card Printers

BarTender can print using just about any card printer's existing Windows drivers.

Unfortunately, this does not provide access to certain advanced card features, such as any magnetic stripe or smart card memory that may be available on the card. Fortunately, version 10 of BarTender is shipping with “Drivers by Seagull™ for some of the most popular card printers in the world. Plus, support for additional card printers is already underway and will be delivered early in 2012.

For an up-to-date list of supported card printers, please visit:

[www.BarTenderPrinters.com/card](http://www.BarTenderPrinters.com/card)

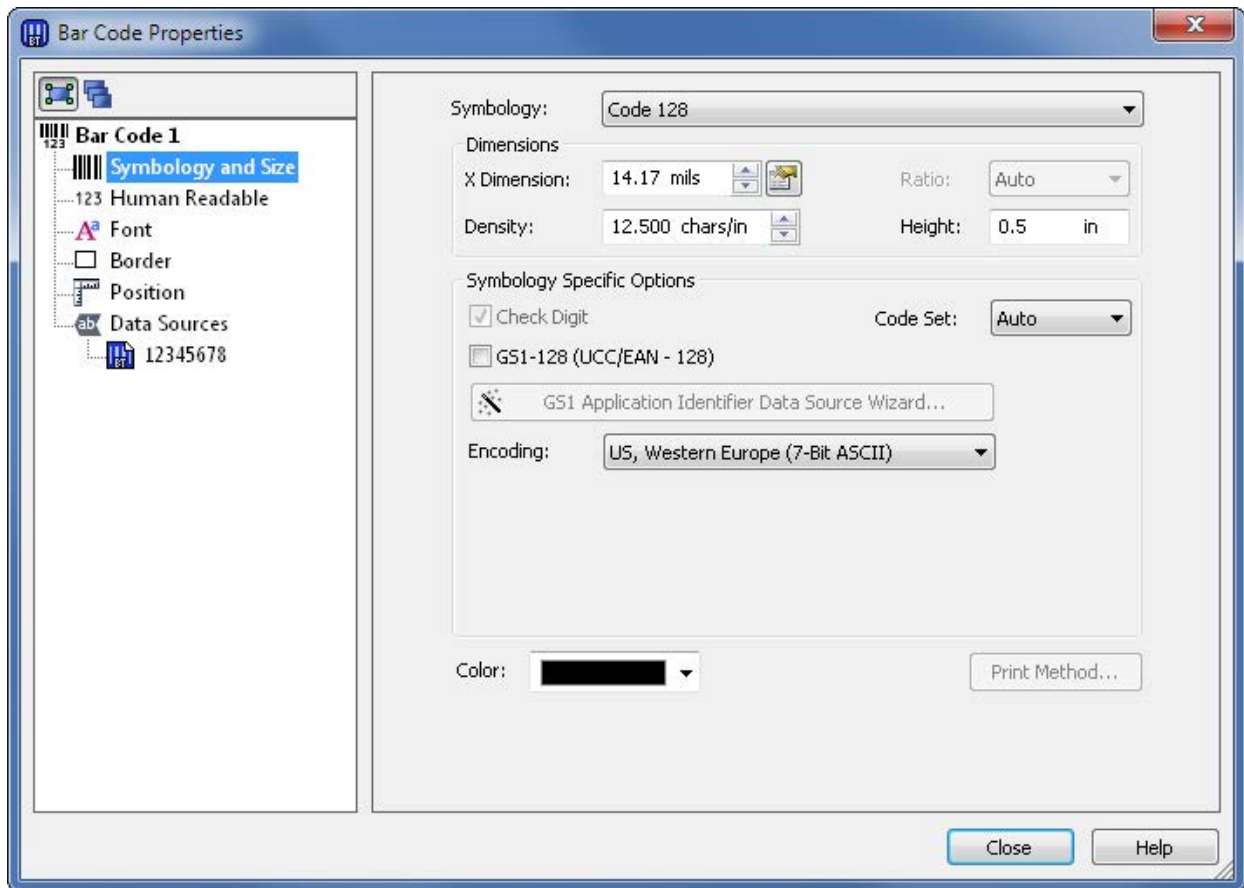
## Improved User Interface

BarTender is known around the world for making even advanced power features seem intuitive to new users. Now, with BarTender 10, we've raised that power and ease-of-use to a whole new level.

## Faster, Easier Properties Dialog

What had been called the **Modify** dialog in previous versions of BarTender, has been a centerpiece of BarTender's user-interface for years. The new version has been renamed **Properties** to more closely follow the latest Windows standards. Much more importantly, the new **Properties** makes it even easier to view and modify the template objects in the design area of your BarTender labels, cards and other documents.





The new **Properties** dialog:

- Provides *instant* on-screen feedback in response to your changes. (You no longer need to first click the **OK** button!)
- Introduces a **Properties** navigation pane on the left-hand side that makes it quicker and more intuitive to access and modify the desired object properties.
- Makes it much quicker and easier to access “Advanced” data sourcing options.
- Simplifies making changes when multiple objects and “groups” are selected.

Let's look at these improvements in more detail.

### **“OK” Button Replaced with Instant Feedback**

As almost everybody knows, it is a Windows interface tradition that clicking **OK** within a dialog means “accept my changes and close this dialog.” Although BarTender continues to use an **OK** button in many places, when you make changes to your template objects using the new **Properties** dialog, you now see your changes *right away*! That means you can try out different settings more easily and see the effect more quickly.

For example, when you use the **Properties** dialog to change a font or the data source for a text field, the corresponding objects change on screen *immediately*.

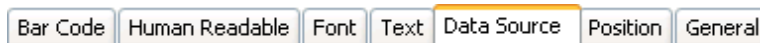
The old **OK** button in the **Properties** dialog has now been replaced by a **Close** button. (**Close** is already in common use in most Windows applications, including BarTender.)



*The separate **OK** and **Cancel** buttons of the **Properties** dialog have been replaced by a single **Close** button. (The **Help** button has been available for years.)*

### New Properties Navigation Pane

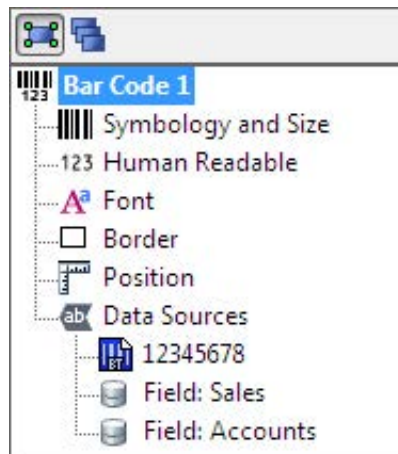
Previously, you accessed different property pages for template objects by clicking on whichever one of up to thirteen “tabs” you were interested in at the top of a dialog that used to be called **Modify Object Properties**. A typical view would have had shown five to seven tabs, like this:



However, if you simultaneously selected multiple template objects for modification, and if these objects were of many different types, there could in theory be up to thirteen tabs, some of which you could only see by scrolling using the left and right arrows (seen here on the right side, cutting off part of the **Data Sources** tab.).

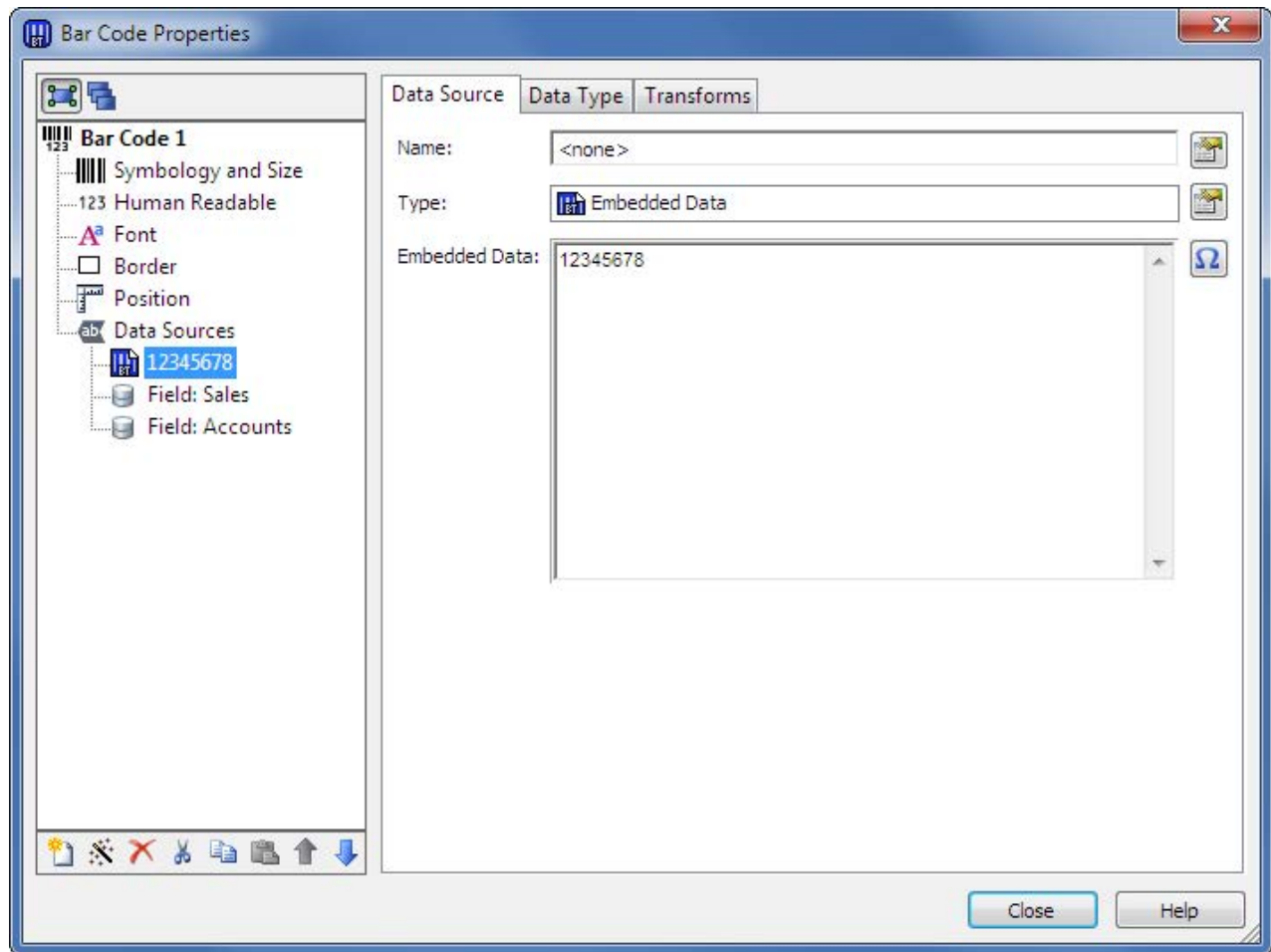


Because we added even more controllable parameters in BarTender version 10, we would definitely have needed to introduce a second row of tabs if we had stayed with this approach. This issue aside, “navigation” panes represent a much more flexible and contemporary approach to switching between property panes.



*The object properties Navigation pane lets you quickly and easily edit different sets of properties.*

Simply click in the navigation pane on the name of a desired set of properties and they instantly come into view on the right.



### **Easier View and Modification of Data Sources**

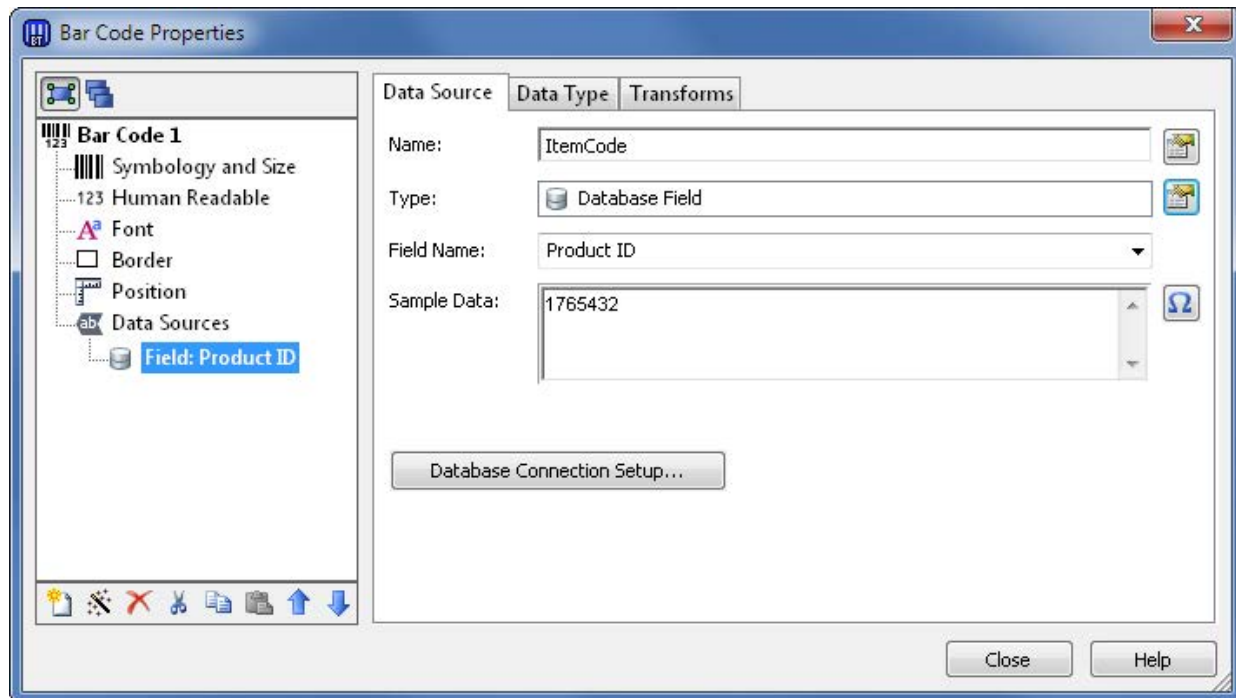
In the graphic above, please note that (unlike earlier versions of BarTender), the new **Properties** Navigation pane provides an *immediate* view of multiple data sources currently in use by the selected template object *without* users having to switch into an “Advanced” mode (as was required with prior versions of BarTender).

### **Easier Access to “Advanced” Data Sourcing Options**

Prior to BarTender 10.0, many of the most powerful data sourcing properties were accessed by switching the properties dialog into an “Advanced” mode. With BarTender 10.0, the **Properties** dialog is so much more powerful, flexible and easy to use that a separate “Advanced” mode is no longer required.

### **New “Data Source” User Interface and Wizards**

The new **Properties** navigation pane introduces helpful wizards in support of three important Data Source configuration procedures. This makes it much easier for non-technical users to connect template objects to their desired data sources.

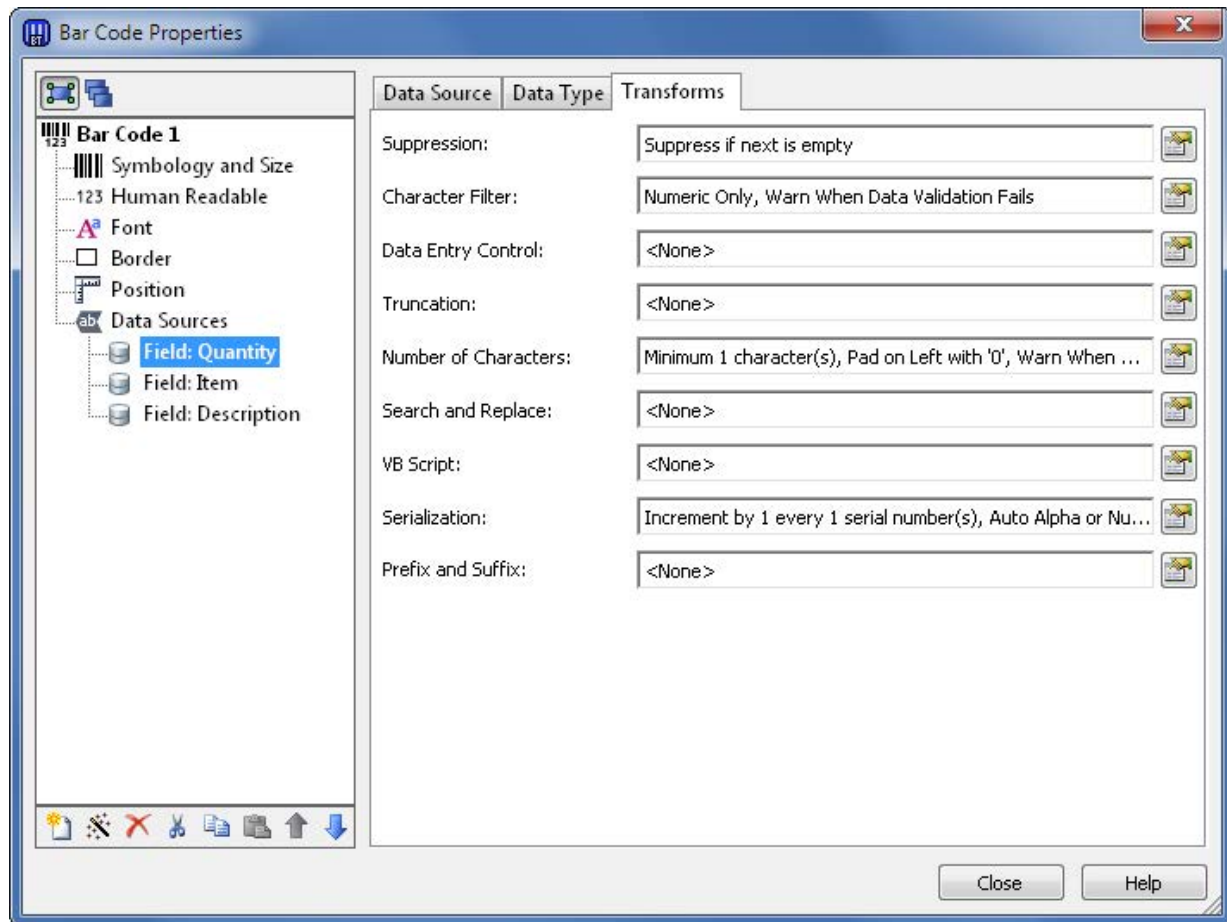


The three procedures that now have wizards are described here and reference the sample dialog shown above:

- **Creating a Data Source:** Click on the **Data Sources** item in the **Properties** navigation pane. Next, click on the **New Data Source** button in the toolbar at the bottom of the Navigation pane.
- **Changing a Data Source's Type:** Beneath the **Data Sources** item in the **Properties** navigation pane, click on the data source whose type you want to change. To start the appropriate wizard, click on the **Properties** button to the right of the **Type** option on the **Data Source** tab.
- **Changing a Data Source's Name:** Same as changing a Data Source's Type (above), except click on the **Properties** button to the right of the **Name** option on the **Data Source** tab.

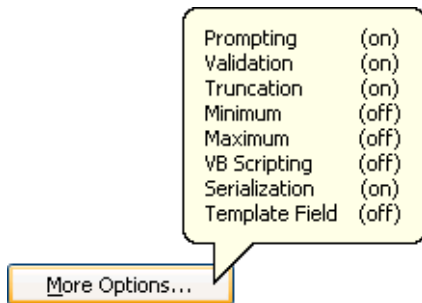
### **Convenient New Data "Transforms" Pane**

If you click on one of the data sources for an object in the navigation pane of the **Properties** dialog, the information on the right of the **Properties** dialog changes to display three tabbed property panes. The right-most is the **Transforms** pane and includes all of the settings (and more) that used to be specified using the **More Options** button in the previous version of BarTender. (The word "Transforms" is now used because this term more accurately describes what the associated dialogs do: They each transform your data in some way.)



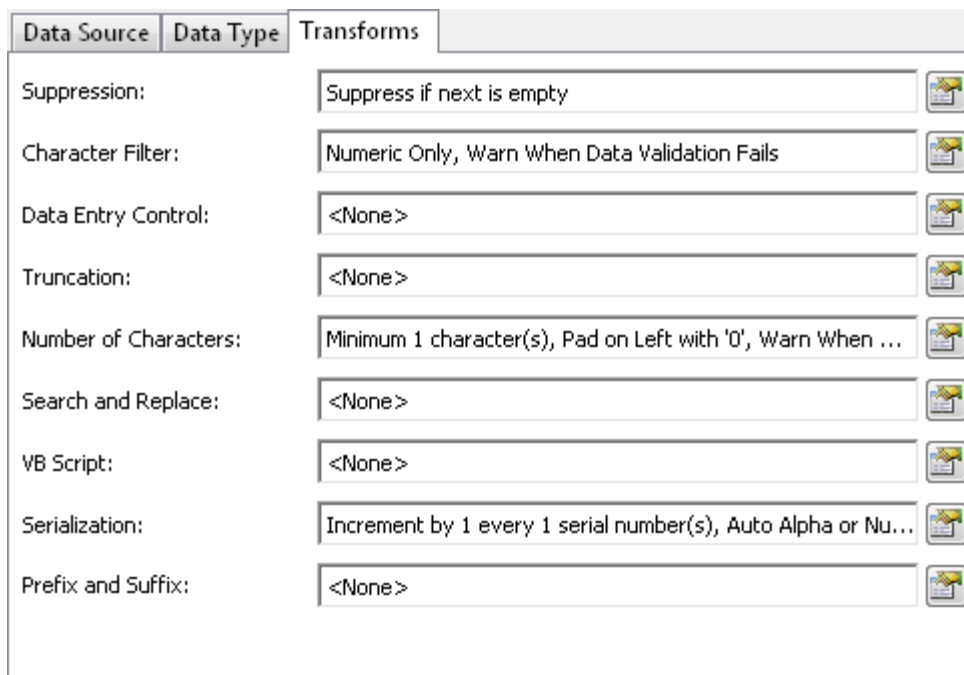
Advantages of the new **Transforms** pane relative to the older **More Options** button method include:

- **Replaces “OK” with Instant Feedback!:** With the older approach to Transforms, you had to click **OK** twice (once in each of two dialogs) before your changes took effect on screen. In contrast, with BarTender version 10, changes to Transform settings are instantly reflected in the template displayed on-screen (as are *all* settings in the object **Properties** dialogs).
- **Status of Transforms Now Much Easier to Determine:** With older versions of BarTender, in order to see if you were using any Transforms, you hovered your mouse cursor over the **More Options** button and a pop-up tip told you which transforms were in use.



Although this is a relatively quick way to see which transforms are in use, you cannot determine any details of the individual transforms without first “drilling down” into the **More Options** button and clicking on the appropriate tab.

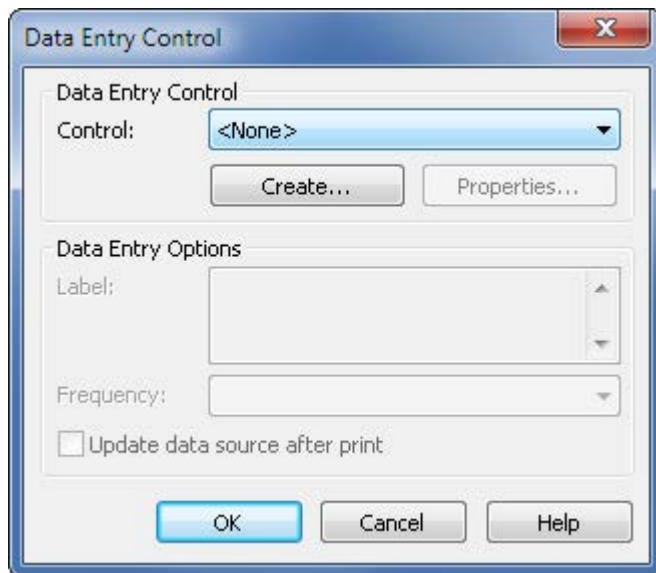
Now, with BarTender 10.0, whenever a transform has been defined, a summary of its settings is displayed on the main **Transforms** pane in place of the **<None>** text seen in the sample **Transforms** pane shown above. (You only need to drill down into an individual dialog to actually define or modify a Transform.)



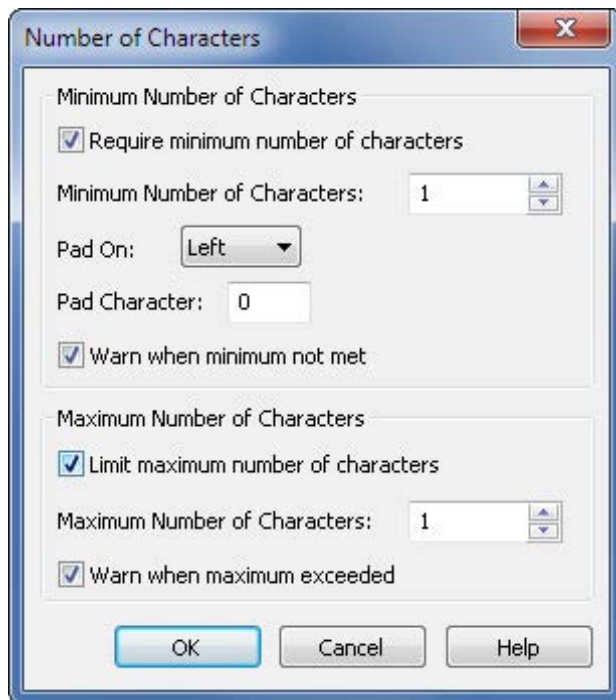
### **New Transform Organization**

The name of the old **Validation** dialog was not fully accurate. The corresponding new transform, which is now called **Character Filter**, has been only slightly changed.

The old **Prompting** dialog has been slightly redesigned and is now called **Data Entry Control**.



The previously-named **Maximum** and **Minimum** dialogs are now combined into the new **Number of Characters** transform.



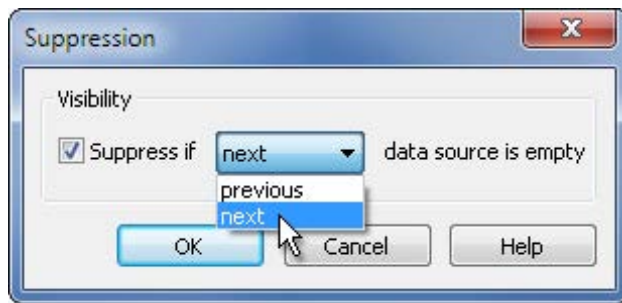
### **New Transforms**

**Prefix and Suffix:** The **Prefix** and **Suffix** options on the old **General** tab were too hard to find. This content has now been moved into its own very simple transform called **Prefix and Suffix**.





**Suppression:** Provides a user-interface to a portion of the old **General** tab from the old **More Options** dialog.



**Search and Replace:** The brand new **Search and Replace** transform introduces significantly more advanced searching functions and is discussed in a dedicated section later in this document.

## Simplified Editing of Groups and Multiple Objects

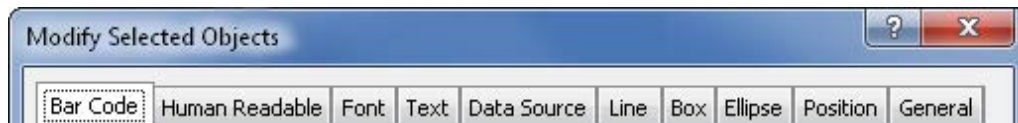
BarTender has long allowed users to select multiple objects in a Template so that they can be moved, copied or deleted all at once. In addition, multiple objects can be “grouped” and saved as a “Component.” This makes it easier to reuse the group in the future within other template designs.

### The Old Approach

Older versions of BarTender nicely handled *some* types of modifications to multiple selected objects. For example, you could select multiple text objects and change their font type or style all at once. However, there were a number of notable complications and shortcomings:

- If you selected a Group or Component, you could not limit your changes to just *one* of the objects without first “ungrouping” the objects.
- When multiple objects of *different types* were selected, some types of group changes could be made from the main Toolbar but not from within the **Modify** dialog (the former name for what is now called the **Properties** dialog).
- When multiple objects of different types were selected, every available parameter for every selected object was simultaneously accessible within the **Modify** dialog, giving you a tabbed dialog that potentially looked like this (or worse):

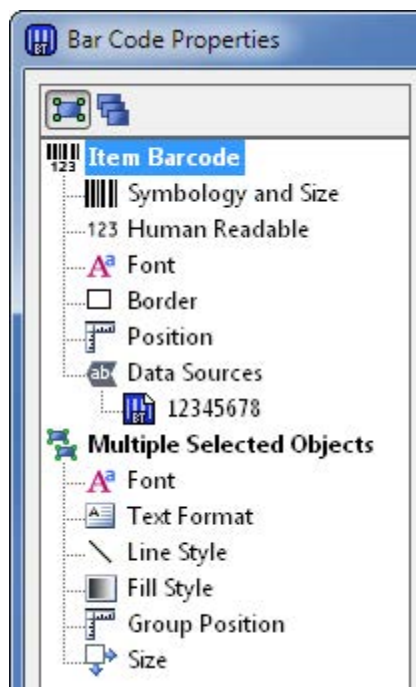




This presentation was cluttered and confusing. In particular, even though some editable parameters only applied to certain type of objects, BarTender didn't explicitly tell you which ones were which. (You had to either know in advance or try your changes out and see what happened.)

### ***The New Approach***

BarTender version 10 solves all three of these problems. The most significant improvement is the new navigation pane on the left side of the **Properties** dialog, which is now used instead of tabs:



### ***For the Master Selected Object***

The first node in the **Properties** navigation pane (in this case a bar code with the name of "Item Bar Code") is the "master selected object." This is the object in the group on your template that you clicked on last and therefore has the round, green handles associated with it. If you click on any of the child nodes underneath the master selected object (in this case, "Item Bar Code"), you can see and edit the parameters specific to that object.

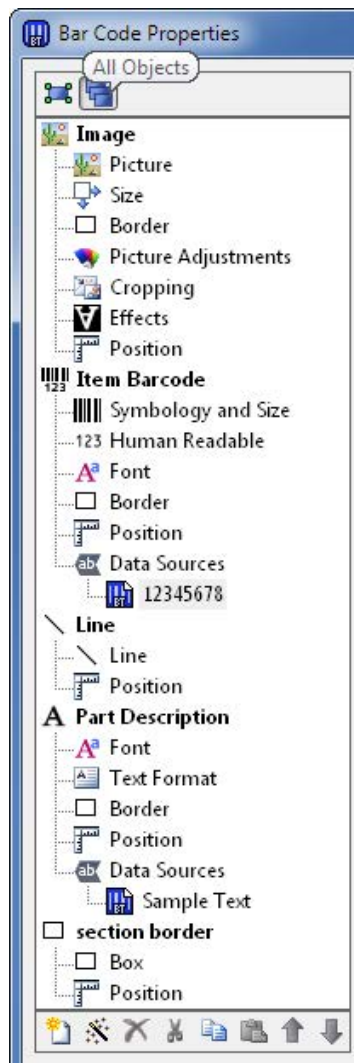
### ***For Multiple Selected Objects***

The second node seen in the sample **Properties** navigation pane seen above represents an updated and more streamlined approach to showing properties for multiple selected objects. The most immediately recognizable visual difference is that, instead of navigating to different property panes by clicking on tabs, you click on the "child nodes" of the **Multiple Selected Objects** properties.

It simply doesn't make sense to try to change some categories for multiple objects at the same time. Accordingly, BarTender does not show all property panes in association with the **Multiple Selected Objects** properties node. The most important of these property panes are:

- Data Sources
- Symbolology and Size
- Human Readable

### **Easily Browse Individual Properties for All Objects**




Another exciting new feature of the **Properties** navigation pane is the ability to browse not only the settings for all *selected* objects, but to optionally browse the individual settings for *each and every* object on the template.

If you didn't have this feature, you could instead simply click on any individual template object in order to "select" it and view its settings in the **Properties** dialog. And, of course, it is also easy to select *all* of your objects. However, the **Properties** navigation pane offers an easier and nearly instant way to see all of your objects' properties without having to select any objects.

By default, the **Properties** navigation pane only shows one or two basic sets of properties, as discussed in the previous section:

- The first set is for the selected object or, if you have multiple objects selected, the "master" selected object (that is, the one with the green handles).
- In addition, if you *do* have more than one object selected, you would also see a second node corresponding to the properties for "All Selected Objects."

In addition, if you click on the right-hand button  in the *upper* toolbar of the **Properties** navigation pane, the navigation pane changes from listing just the *selected* objects to instead listing *all* objects in your template. You can then simply click on any node in the navigation pane and easily view and change the corresponding settings in the **Properties** pane on the right.

## Optional Display of Object Names

The new **View, Show Object Names** option allows you to automatically display object names in the design area on top of the objects. (For a quick keyboard shortcut, just press F11.) This is useful when:

- You want to quickly understand how the data sourcing in a label design is set up.
- You receive an error message referencing an object by name.



## More Detailed Embedded Revision Log

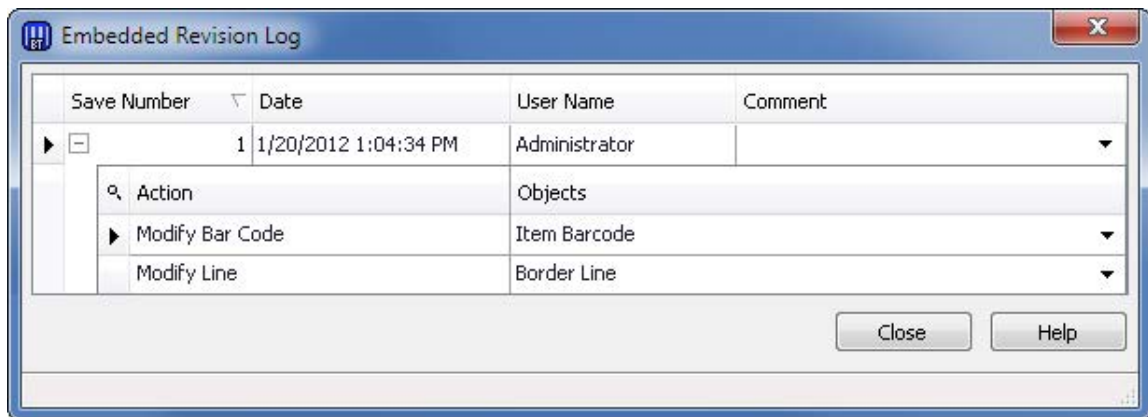
- The Embedded Revision Log introduced with version 9.4 of BarTender allows you to optionally track each and every change you have made to your BarTender documents and save this log right inside each BarTender document. (Supported in all versions of BarTender except for Basic.)

### About Librarian

The Librarian companion application, available with the Enterprise Automation version of BarTender, is a much more sophisticated revision and workflow management system. However, Librarian is designed to assign and track revision numbers for each save of your

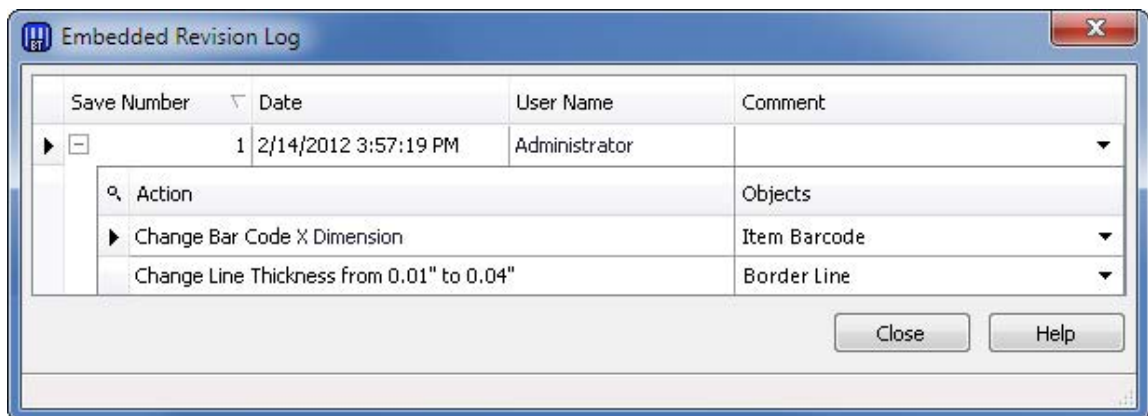
documents -- it doesn't automatically track the individual *edits* that you make, as does the Revision Log. (For the ultimate in revision tracking, you can optionally use the Embedded Revision Log in addition to Librarian.)

- With the release of version 10, BarTender can save more details about your revisions into the Embedded Revision Log. In the following screen, captured from version 9.4, you can see how changes to two objects were logged. (One object was called "Item Bar Code" and the other "Border Line.") Note that the listed "Action" only describes that these two objects were modified.



*This sample Embedded Revision Log from BarTender version 9.4 only shows that the objects were modified in some way.*

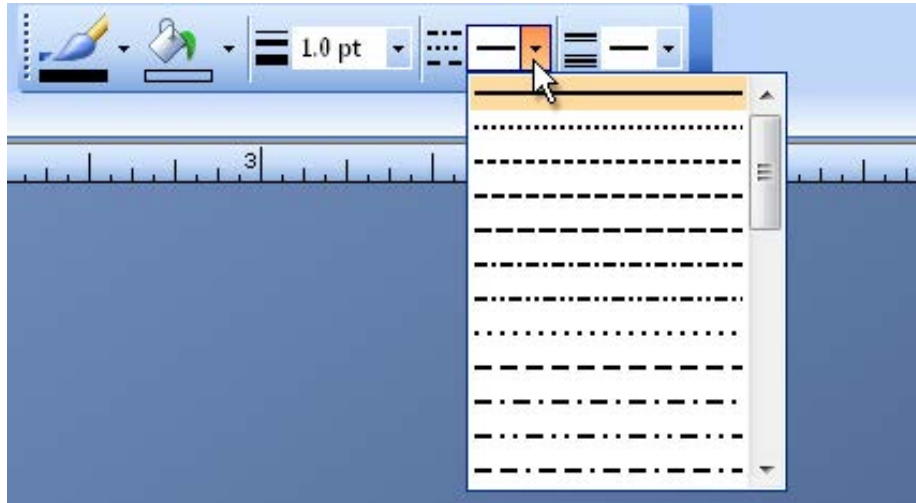
- In contrast, in this next screen, captured from version 10.0, you can see that the Item Barcode had its X Dimension changed and the Border Line had its thickness changed.



*This sample Embedded Revision Log from BarTender version 10.0 shows more detail about the changes that were made than version 9.4 did.*

## New Line and Shape Formatting Toolbar

Previously, in order to customize many of the properties of your lines and rectangles, you had to double-click on the object(s) and make your changes within the **Modify** dialog (now called the **Properties** dialog). With BarTender version 10, a new **Line and Shapes** formatting toolbar has been added that gives you direct access to the existing **Thickness** option for these objects, as well as the new **Dash** and **Compound** options.

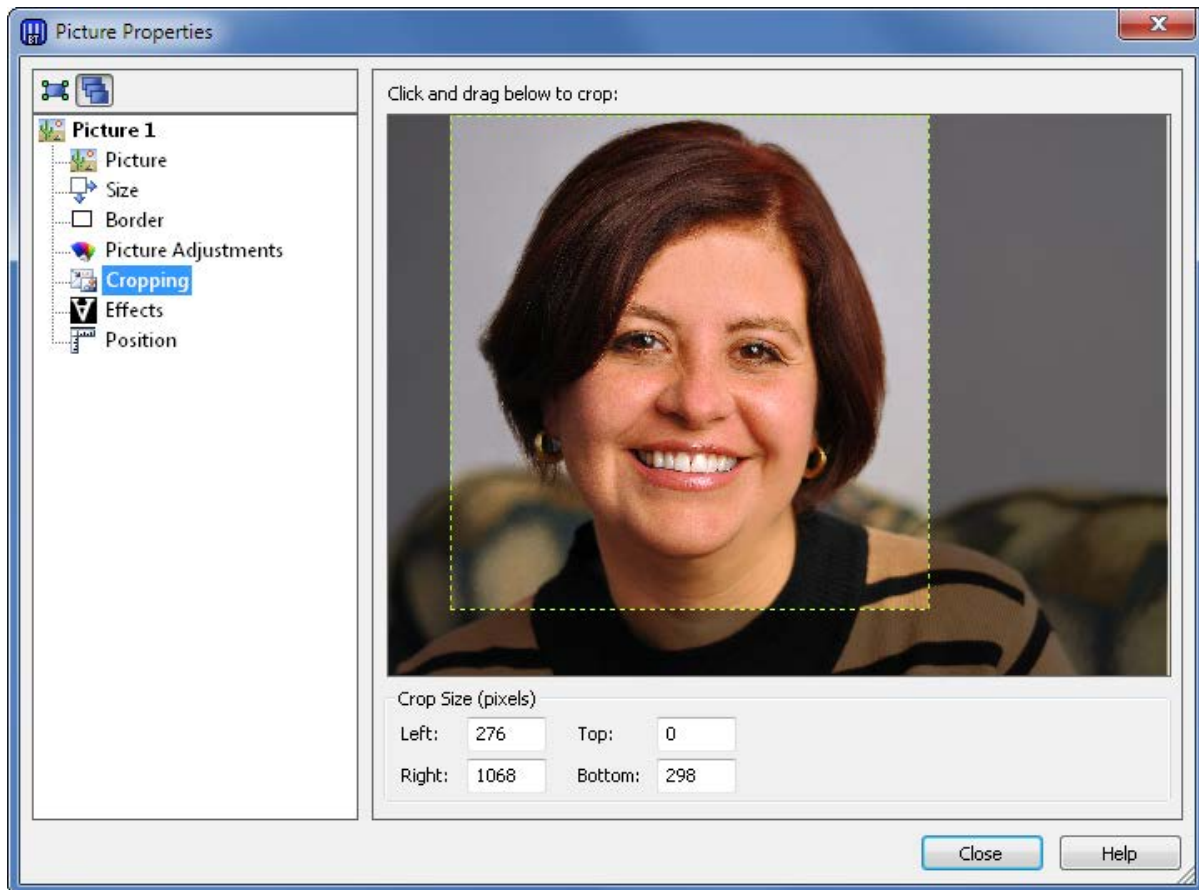


## WYSIWYG Cropping of Graphics

Previously, in order to “crop” a graphic so that part of it is not displayed or printed, you had to guess at a pixel value for each of the sides that you wanted to crop off and then manually type the value(s) into the **Cropping** option in the **Modify Picture Properties** dialog and see how close your first guess was. Then, you manually adjusted each of these values a few times until you got them right.

With BarTender version 10, you can crop graphics simply by defining a rectangle with your mouse.





### To Crop A Graphic Using BarTender Version 10:

1. If you have not already done so, double-click on the desired graphic to display the associated **Properties** pane.
2. Select the **Cropping** option from the navigation pane.
3. Next, simply click and drag your mouse within the graphic to define a rectangle. The portion of the image that occurs inside the rectangle will be visible in the template design area and the portion that is inside the rectangle gets cropped off.

You can still crop the old way (using the **Crop Size**) options at the bottom of the dialog. (Note that whichever method you use affects the display of the other method's associated option settings.)

### Rotate Design View Function

New **Rotate View Left** and **Rotate View Right** options in the **View** menu allow you to easily rotate the *view* of the template 90 degrees without actually rotating the objects themselves and therefore without affecting how the printout will look. This is especially helpful when some of the objects on your template are aligned with the portrait orientation and others are aligned with the landscape orientation.

## More Versatile Mouse Functionality

A number of keyboard-mouse button combinations have been added to provide additional viewing control options. More viewing control options have also been defined for mice that have three or four (instead of just two) buttons.

### Added center mouse button pan

If your mouse has a center button (which includes a scroll wheel that can “click”), then clicking that center button on the template allows you to drag the template in different directions. This is simply another way of panning in addition to the use of the scroll bars on the edges of the template. (The available action is very similar to how you can “drag” a Google map around to reposition it.)

### More Precise Zoom Option

For many years, holding down your keyboard's Control (**CTRL**) key while scrolling your mouse wheel has performed a zoom in or out of the template design area. Now, if you also hold down the **Shift** key as well, you get more gradual, more precise changes in the zoom factor.

### Mouse Button Four Emulates Shift Key

Some mice now have a large fourth button on the side, or possibly large fourth *and* fifth buttons, one on each of the left and right side. Pressing either of these two large side buttons when moving the mouse has the exact same effect that pressing the Shift key on the keyboard has had in the past:

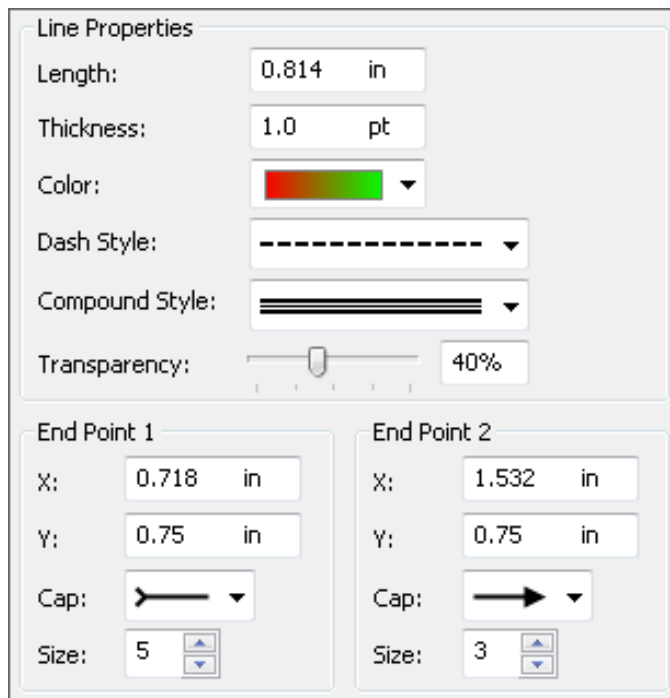
- **Drawing Shapes:** Forces the height and width of the shape to be the same.
- **Resizing Shapes:** Forces proportional changes in size.
- **Lines:** When drawing a line or dragging the end-point of a line, this limits the angle of the line to being a multiple of 45°.
- **Pictures:** When resizing a picture graphic, this preserves the aspect ratio even if you have turned off the Preserve Aspect Ratio checkbox for the picture.
- **Panning:** When using the scroll wheel, the screen pans left and right instead of up and down.
- **Zooming:** When the Ctrl key is depressed while turning the scroll wheel, you get a more finely-controlled and gradual zoom.

## Very Powerful, High-End Drawing Capabilities

BarTender has long been able to draw lines and rectangles, as well as import graphics. That said, the artistic drawing functions of label software programs have traditionally lagged behind professional graphics applications, such as Adobe Illustrator. While BarTender is still not ready to replace Adobe Illustrator for your highest-end graphic design challenges, BarTender version 10 *significantly* narrows the gap.

## Improved Line Drawing, including Arrows

BarTender has long had the ability to draw lines at any angle and of any thickness. Version 10 now adds a truly extraordinary variety of new line drawing options.

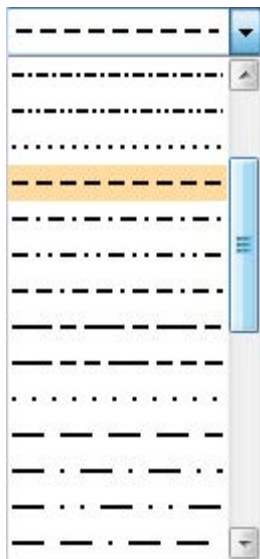


The image shows the 'Line Properties' dialog box in BarTender 10.0. It is divided into two main sections. The top section, titled 'Line Properties', contains fields for 'Length' (0.814 in), 'Thickness' (1.0 pt), 'Color' (a color picker showing a gradient from red to green), 'Dash Style' (a dropdown menu showing a dashed line), 'Compound Style' (a dropdown menu showing a triple-line style), and 'Transparency' (a slider set to 40%). The bottom section is split into two columns for 'End Point 1' and 'End Point 2'. Each column has fields for 'X' and 'Y' coordinates, a 'Cap' dropdown menu (showing arrowheads), and a 'Size' spinner box.

BarTender version 10 includes:

### **35 different types of dashes**

(A scrollable list with 35 options.)





### **6 types of compound lines**



### **26 resizable end caps (including various arrow styles)**

(A scrollable list with 26 options.)



### **Fully controllable transparency**

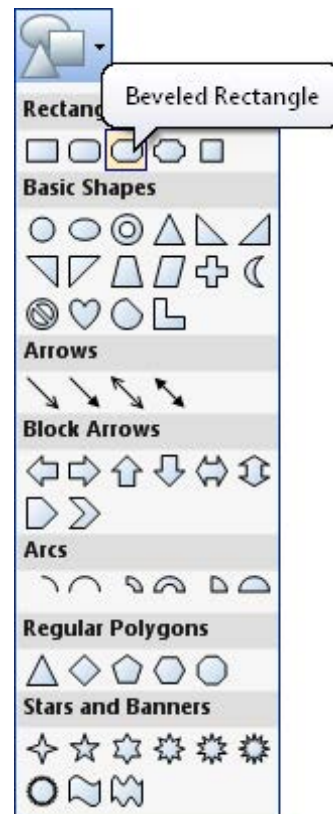
Any object in BarTender, except for bar codes, can now be set to any transparency value between 0% and 100%.

### **More than 15 New Classes of Shapes**

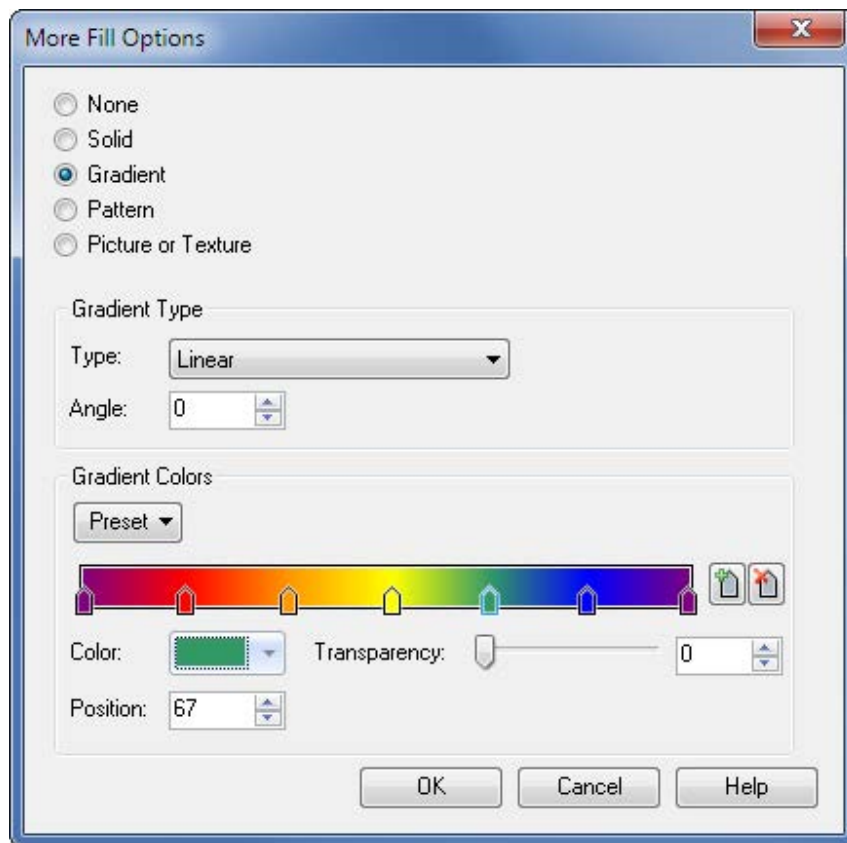
BarTender has long supported the drawing of squares and rectangles. Although you could always draw more complex shapes with the line drawing tool, that was certainly not an easy approach. Now, with version 10, BarTender lets you quickly and easily create complex shapes with a mouse motion as simple as that for drawing a rectangle.

These shapes include:

- Diamonds
- Trapezoids
- Parallelograms
- Rings
- Hearts
- Block Arrows
- Arcs
- Stars
- Banners
- Regular Polygons, including:
  - Triangles
  - Squares
  - Pentagons
  - Hexagon
  - Octagon
  - And so on...

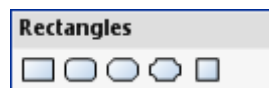


As with regular lines, these shapes can be drawn using dashed and compound line styles, in addition to the default of solid. You also get a truly remarkable variety of options for optional fills, including gradients, patterns, pictures and textures:

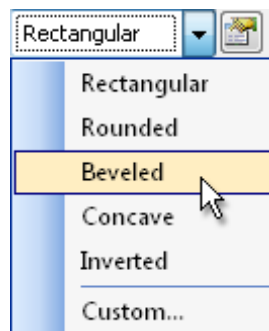


## More Rectangle Options

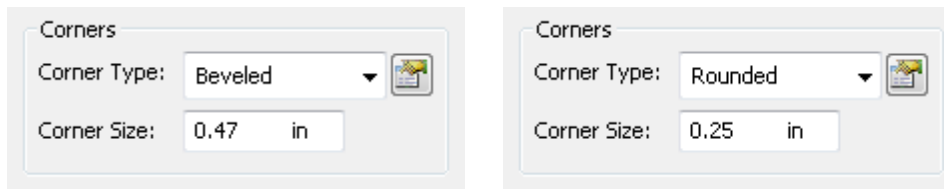
You can now choose from five different predefined corner styles when drawing rectangles. You can start by choosing any one of five general rectangle types:



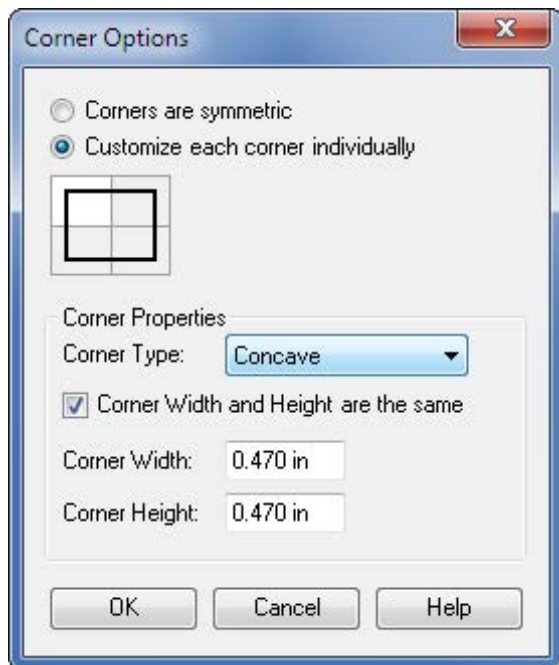
Each of the options in the following list specifies a type of corner setting that, once selected, can be thoroughly customized:



Once you specify a corner type, you can optionally customize its size as desired.



The **Corner Options** dialog even lets you specify a different style for each corner!



Using the above **Customize each corner individually** option, you could quickly define shapes such as these:



As with regular lines and other shapes, rectangles (with or without custom corners) can be drawn using dashed and compound line styles, in addition to the default of solid. You also get the full variety of fill options, including gradients, patterns, pictures and textures.

### Borders and Fills for Objects

Previous to BarTender version 10.0, it was very easy to draw a rectangle or elliptical border around an object in your design area. However, these were drawn and treated as *completely separate objects*. For example, if you wanted to add a rectangular border to a bar code (sometimes done to ensure an adequate quiet zone), this was a *separate* object that just

happened to be positioned around the perimeter of the bar code. In order to move these objects around together, you had to either be careful to select them both or “group” them.



Now, with BarTender 10.0, you can add any of a variety of automatic border types around objects in your design area and manage the properties of these borders as a subset of the overall properties for the main object. That means there's no extra worry about grouping or selecting multiple objects.



Although the overall shape of a border can be a rectangle or ellipse, you get full access to the same customization options available for these shapes when they are used stand-alone. That means that, as shown in the following dialog, once you enable the border for an object, you can get as fancy as your imagination desires!

The screenshot shows the 'Border Properties' dialog box in BarTender 10.0. It is divided into several sections: 'Border Type' with radio buttons for 'None', 'Rectangle' (selected), and 'Ellipse'; 'Margins' with input fields for Top, Left, Bottom, and Right, all set to 0.1 in; 'Corners' with a 'Corner Type' dropdown set to 'Concave' and a 'Corner Size' input set to 0.25 in; 'Line Properties' with fields for Thickness (2.0 pt), Color (dark blue), Dash Style, Compound Style, and a Transparency slider at 0%; and 'Fill Properties' with a Color dropdown (light green) and a Transparency slider at 0%.

### Advanced Border Features

When you enable a border for an object, you get advanced capabilities with certain template objects that you simply can't get just by drawing a separate rectangle or ellipse around the object.

- **Automatic Resizing:** When you resize objects, any borders that have been specified automatically resize as well.
- **Automatic Cropping:** If you specify rounded, beveled or concave corners for a border around a graphic, the graphic will be automatically cropped to properly fit within the border.



*The concave corners in this border automatically crop out the appropriate part of the graphic.*

## Data Type Support

Until now, all data received by BarTender was treated simply as a string of characters, just as text is treated in a word processor. This has been true even if the data that was imported represented a numerical value or a date.

In most situations, treating all of the sourced data as text works perfectly. Sometimes, however, you may want to perform specialized validation or mathematical functions on your data that require BarTender to know the data type of one or more of your template objects. Accordingly, you can now choose from among the following data types for any of your template objects:

- Text (applies to text, bar codes and any other object that can be sourced with text-based data)
- Date
- Time
- Number
- Percentage
- Fraction
- Currency

BarTender version 10's support for data types is essential to BarTender's new ability to:

- Display multiple date formats in different languages on a single label template.
- Serialize numbers that contain commas or decimals.
- Read a date stored as text in a database and convert it into any date or number format in any language, without regard for the system language settings of either the database system or the computer on which you are running BarTender.
- Modify date values using a data-sourced offset value. (For example, suppose one type of food expires 7 days after packing, but another expires 30 days after packing.)
- Format and display scientific notation. (For example, 1.3E+005.)
- Format numbers using alternate numeral systems, such as Eastern Arabic (١٢٣٤٥٦٧٨٩) or Devanagari (०१२३४५६७८९). You can even serialize these values!
- Format and serialize roman numerals (I, II, III, IV)

## Brand New, Easier Creation of Template Objects

For more than 15 years, BarTender has used a two-click approach to creating and positioning bar code, text and picture objects on your new templates:

1. Click on the create bar code, text, or picture button in the main tool bar.
2. Click in the desired location on the template.

### Our Reasons for Upgrading Object Creation

Unfortunately, although the two-click approach was great for quickly placing objects on your templates, there were too many instances where these objects required further customization.

- **Bar Codes:** There were actually two ways to make bar codes (either from the main toolbar or from the Toolbox) and they worked very differently. The old toolbar method could require significant customization of the bar code after it was created and neither method was as powerful and easy-to-use as the new method delivered with BarTender version 10.
- **RFID:** Just like bar codes, RFID objects could also be created using either the main toolbar or the Toolbox. Again, these two create experiences were very different and neither one was as easy as the new one is with BarTender version 10.
- **Text:** With the introduction of word-processor-type text editing functionality, as well as support for the RTF, HTML and XML mark-up languages, it became too easy to start with the wrong text object type. In the event that you chose the wrong one, you would eventually have to delete the text object you created initially and then recreate your text using the object type appropriate to your application.
- **Picture Graphics:** As quick as it was to insert the *placeholder* for picture graphics, specifying whether the actual image for the picture would be embedded, linked, data sourced, or supplied by a camera required using portions of the BarTender user-interface that were somewhat “technical” and could therefore be intimidating to novice users.

With version 10, BarTender makes it far easier to define *exactly* the type of template objects you need when you *first* create them. This significantly speeds up the completion of new template designs, especially by novice users, because you are far less likely to have to come back and customize objects later.

### More about the Older Methods of Selecting Bar Codes

Prior to version 10, there were *two* prominent ways of creating bar codes using BarTender:

- **The Toolbox:** Located by default next to the left-hand side of the template design area, the Bar Code pane of BarTender's Toolbox displayed a large variety of bar code symbologies and predefined bar code standards. This included expandable folders that organized numerous bar codes into categories. To create a bar code, you simply



“dragged” the desired one into your template design area. The Standard Bar Codes pane of the Toolbox looked like this:



*The Standard Bar Codes pane of the old BarTender “Toolbox.”*

We were very proud of how powerful and easy to use the Standard Bar Codes pane was. However, the new Select Bar Code dialog is clearly superior in all regards. It even includes a preview of how each bar code will look *before* you create it!

- **The Main Toolbar:** The other method of creating a bar code was to simply click the Create Bar Code icon in the main toolbar (located by default above the Template Design area):





*In older versions of BarTender, the Create Bar Code button is the leftmost button in the Create section of the Object toolbar.*

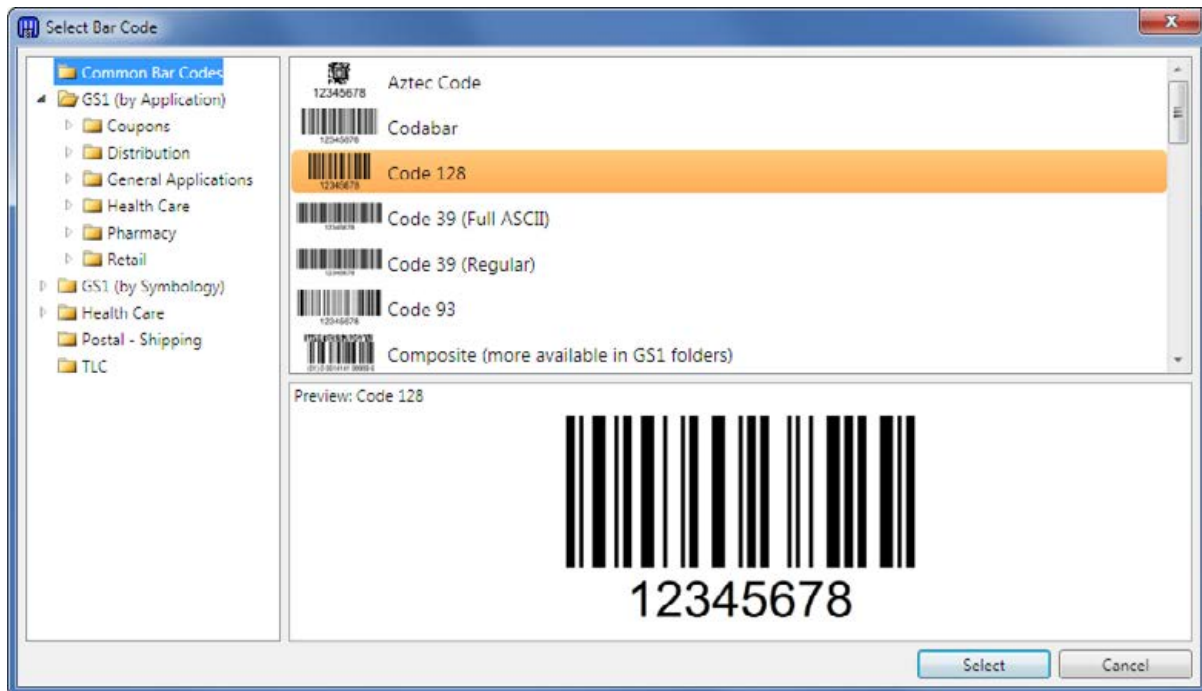
BarTender then created an instance of the current “default” bar code. (This default starts out as Code 3-of-9 for new installs, but it can be set to any of the many available bar code symbologies.) Unfortunately, although this was indeed a quick and easy way to create a new bar code, if the default symbology is not the one you really need, you had to spend time customizing the bar code to get the one you really wanted.

## Beautiful and Very Helpful New Dialog for Bar Code Creation

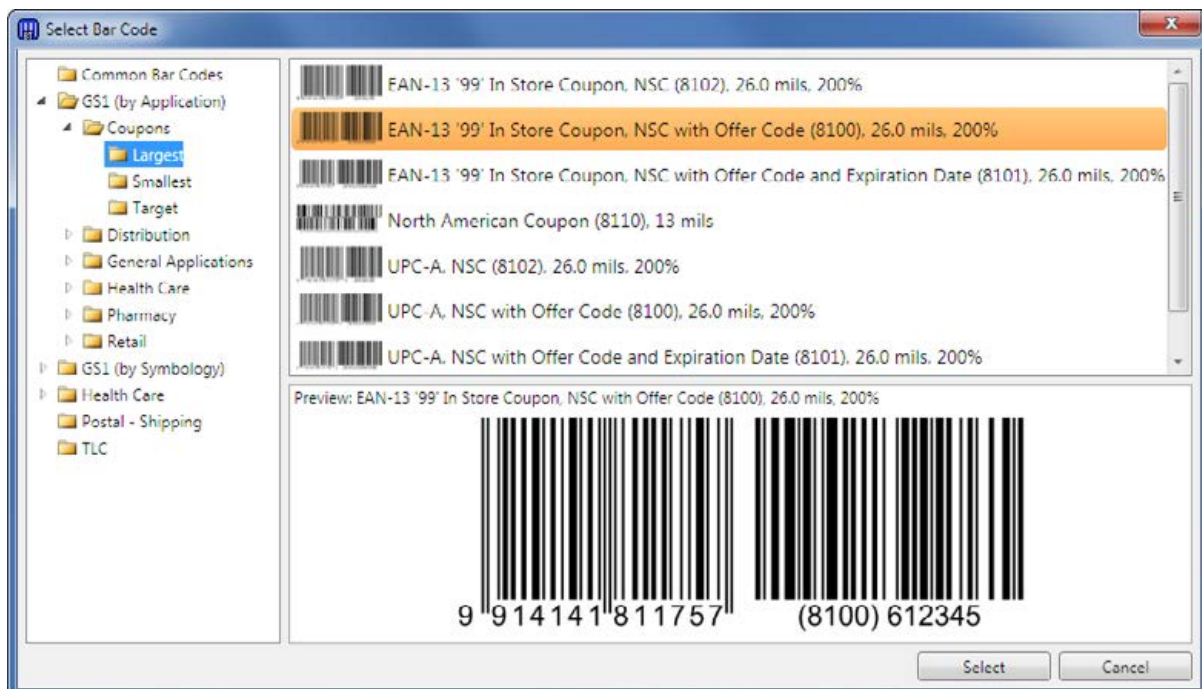
The new “Select Bar Code” dialog builds upon the flexibility of the old “Standard Bar Codes” tab from older versions of BarTender and takes it to a whole new level. Improvements include:

- Instead of just little tiny bar code icons like this  with the names of the bar code symbologies and standards to the right (see graphic image located above), you get a scrollable window containing a condensed preview of the actual bar codes available for selection
- In order to condense as many of these previews into the dialog as possible, an additional viewing window has been added at the bottom of the dialog to show a crystal-clear, large-size version of the bar code.
- The old Bar Code tab has now been removed from the BarTender toolbox, leaving users with one simple but very powerful way to create bar codes using the create bar code button in the main BarTender toolbar. 
- The folder structure you can “drill” down into in order to explore different categories of bar codes has been improved and now offers the ability to select from over 400 preformatted, ready-to-use bar code components based on 59 different bar code symbologies and 12 additional bar code standards. (See large graphic that follows this next one.)

To select the desired bar code to create, either double-click on it or click the **Select** button.





*The new Select Bar Code dialog makes it incredibly easy to preview and select the desired bar code.*




*The Select Bar Code dialog also provides a powerful and user-friendly way to browse through various categories of different bar code types.*

## Brand New Create “Encoder” Toolbar Button

As with the old Bar Code tab, the old RFID tab has also now been removed from the BarTender toolbox. In addition, the old Create RFID button  has now been superseded by a very smart and flexible new Create “Encoder” button  that *includes* the creation of RFID as one of three encoder types.

### Support for RFID, Magnetic Stripe, and SmartCards all Based on “Encoders”




Prior to version 10, you would add support for RFID to a BarTender template by dragging and/or dropping an RFID icon  into your template design area.




*When you add RFID support to your template, BarTender version 10 still places and RFID icon off to the edge of your template, just like the older versions of BarTender.*

BarTender version 10 introduces encoding support for both the “contact” and “non-contact” memory chips available in today’s “Smart Cards.” We have *also* introduced encoding support for magnetic stripes on cards as well. As with the RFID icons, the icons that represent these new encoding technologies are placed just off the edge of your templates. (As with RFID objects, BarTender places your other encoder objects just off the edge of your template design so that they don’t interfere with your design work on screen).

From BarTender’s perspective, we now have three different classes of encoding support. These are described here, each preceded by the icon that represents the respective encoder object on-screen:

-  Our existing support for RFID in labels and tags.
-  Support for “Smart Card” memory, which includes:
  - Non-contact memory (which is basically just another type of RFID technology)
  - Contact memory (which uses small electrical connections instead of RFID)
-  Magnetic stripes (such as what you see on credit cards)

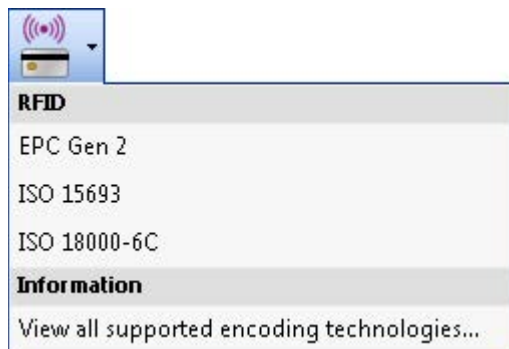
Rather than clutter up the Object toolbar with additional buttons, we decided to take advantage of the fact that the majority of encoding applications employ only one of these encoding technologies at a time. This allowed us to consolidate access to the three classes of data encoding into a single “Encoder” button in the Object toolbar  (Because this new button *includes* access to our already existing RFID support, our old RFID button has now been removed from the Object toolbar.)

### **A Smart, Multi-Function Create Encoder Button**

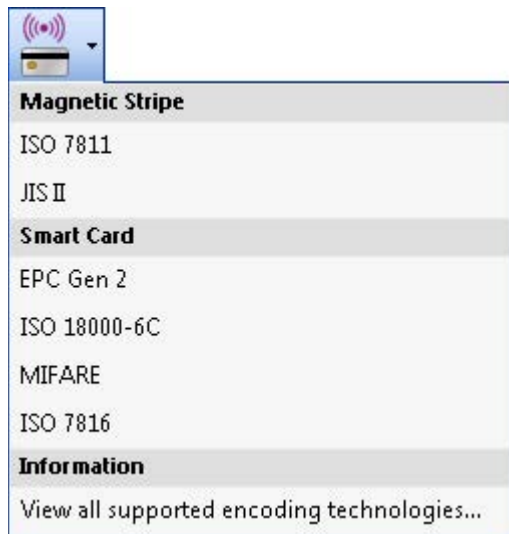
In order to perform any sort of data encoding using your printer, you must have:

- A printer that supports at least one method of data encoding.
- A Windows Printer Driver by Seagull™ for this printer.

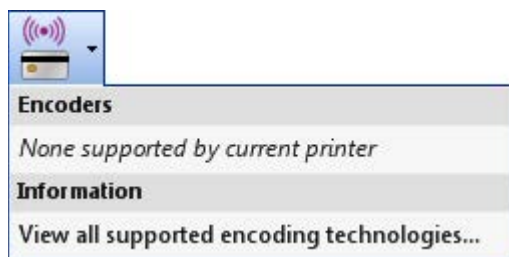
When you use Drivers by Seagull™ with an encoding-capable printer, our driver automatically knows which kind of encoding technology (or technologies) are supported by your printer. Accordingly, as long as you have the right Seagull printer driver selected, when you click on the Create Encoder button in the Object toolbar, the menu that drops down will reflect the encoder technologies available in your currently-selected printer.



*An example of the Encoder drop down when a label printer is selected that supports RFID.*





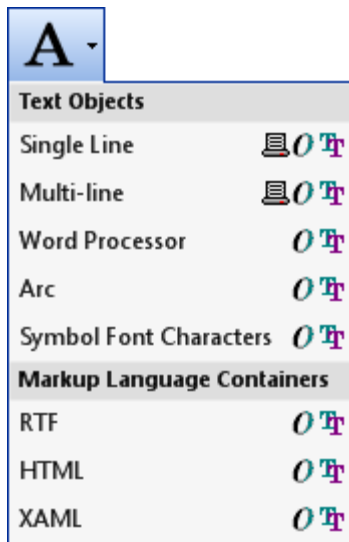
*An example of the Encoder dropdown when a printer is selected that supports magnetic stripe and Smart Card memory.*



*The Encoder dropdown tells you when the selected printer does not support any encoding options. The “View all supported encoding technologies...” option seen in all three examples displays a list of all encoding technologies supported by BarTender, regardless of whether or not they are supported by the current printer.*

## Unified Text Creation Toolbar Button

Previously, BarTender 9.4 introduced Rich Text objects that can be edited as easily as you can using a professional word processor, such as Microsoft Word. However, these Rich Text objects were managed so differently than BarTender’s existing types of text objects that we initially defined a second toolbar button  in addition to the existing one  to manage the creation of Rich Text. With BarTender version 10.0, we have simplified the creation of text by returning to a single text creation toolbar button that “drops down” to show you all the text objects that BarTender supports. (Note that the button has changed from a “T” to an “A” in order to more closely follow the text-oriented icons within the Microsoft Office applications.)



### **Rich Text Objects Now Called “Word Processor” Objects**


The way that we had previously used the term “Rich Text” presented two problems with BarTender 9.4:

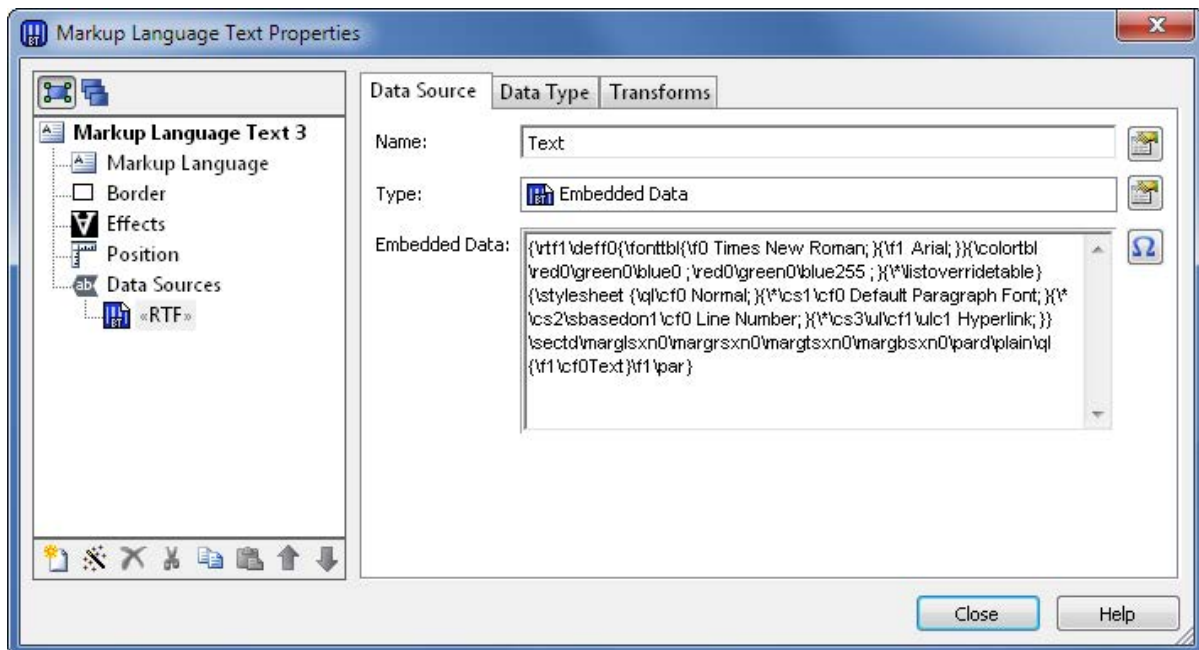
- It’s a technical term not clearly understand by many everyday users.
- The Rich Text object introduced with BarTender 9.4 supported not only the creation of its own “Rich Text” content, but also the insertion of content created externally using any of three different mark-up languages:
  - RTF text (which stands for “Rich Text Format,” and therefore further confuses the issue).
  - HTML
  - XAML

To clear up this ambiguity, BarTender version 10 now refers to its internally-created “rich text” objects as “word processor” text, which is one of the options seen in the previously shown **Create Text** pull-down menu. This is for the very simple reason that you can do just about anything with these objects that you can with a professional word processor (such as Microsoft Word).




### **New Treatment for Insertion of RTF, HTML and XAML Mark-up Content**

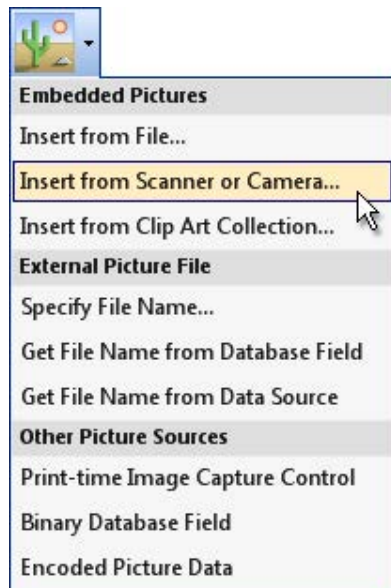
In order to further clarify the difference between what is now called **Word Processor** text in BarTender and text that has been created external to BarTender using the RTF mark-up standard, RTF mark-up content is now inserted from the separate **Markup Language Containers** section of the new **Create Text**  pull-down menu shown above. HTML and XAML content is inserted from here as well.



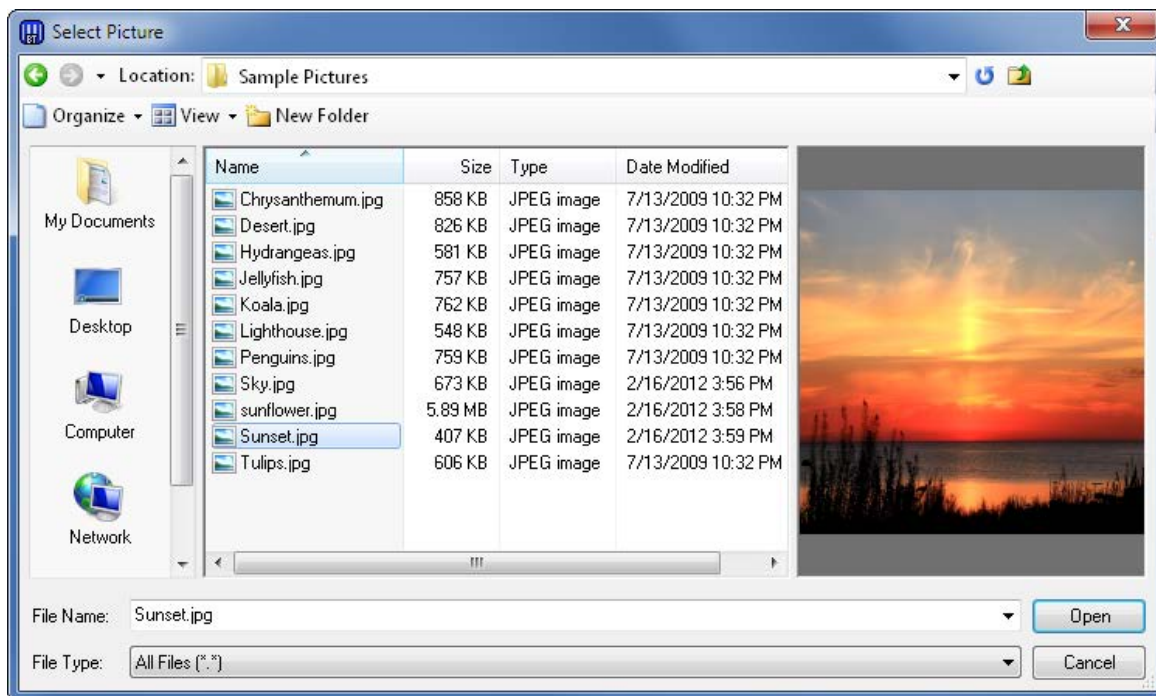
### **Time Saving New Create Picture Object Menu**

Previously, after clicking on the Create Picture Object button  and inserting the resulting placeholder into the template design area, you had to search through any of a number of dialog options in order to fully configure the Picture Object to meet your needs (such as embed a static image or read an image from a camera or scanner). Not only did this require extra steps, but some of the dialog options could be intimidating to novice users.

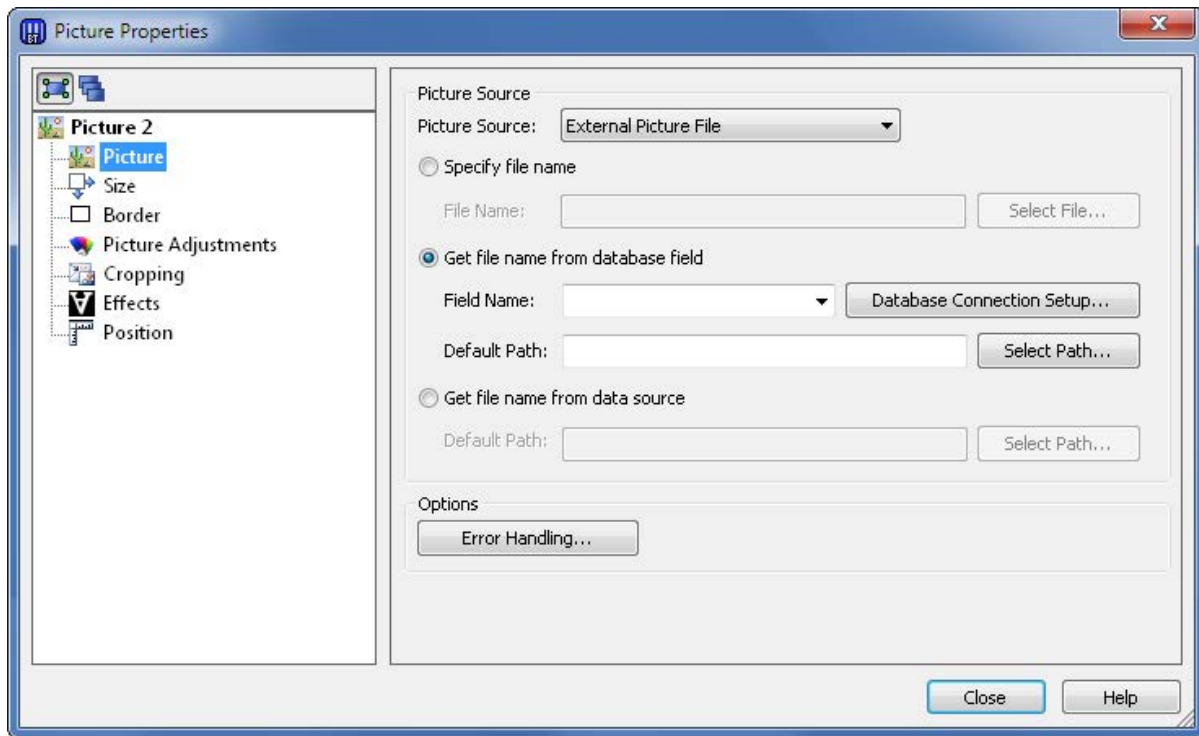
With BarTender version 10, we have taken 9 different predefined picture object configurations and placed them into an easy-to-read and use menu.



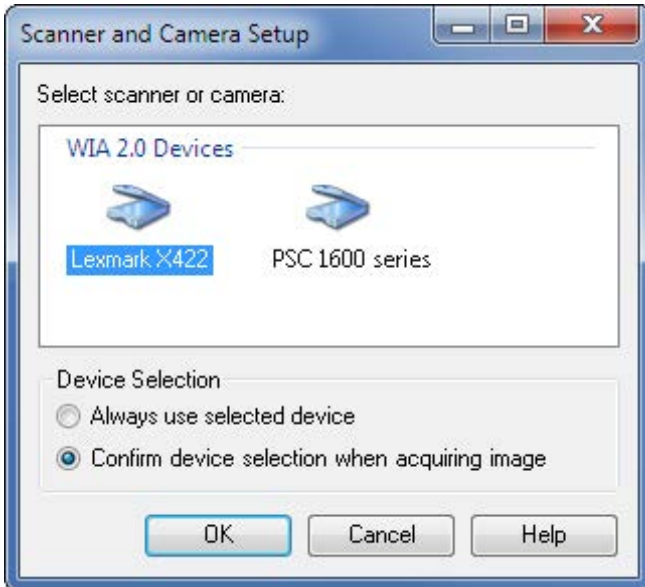
Each of the 9 menu options launches exactly the right dialog required to specify the picture object to be imported now or how it will be imported at print-time. The effect of the resulting user-interface is somewhat similar to having a “Create Picture Wizard,” except that it is actually much faster to use than a wizard. This is because, you don’t have to sequentially answer a number of multiple-choice questions just to determine the type of picture object that you want to insert. You choose the type from the 9-item menu and then immediately see the dialog into which you specify the final data that is required, such as the three examples shown below.



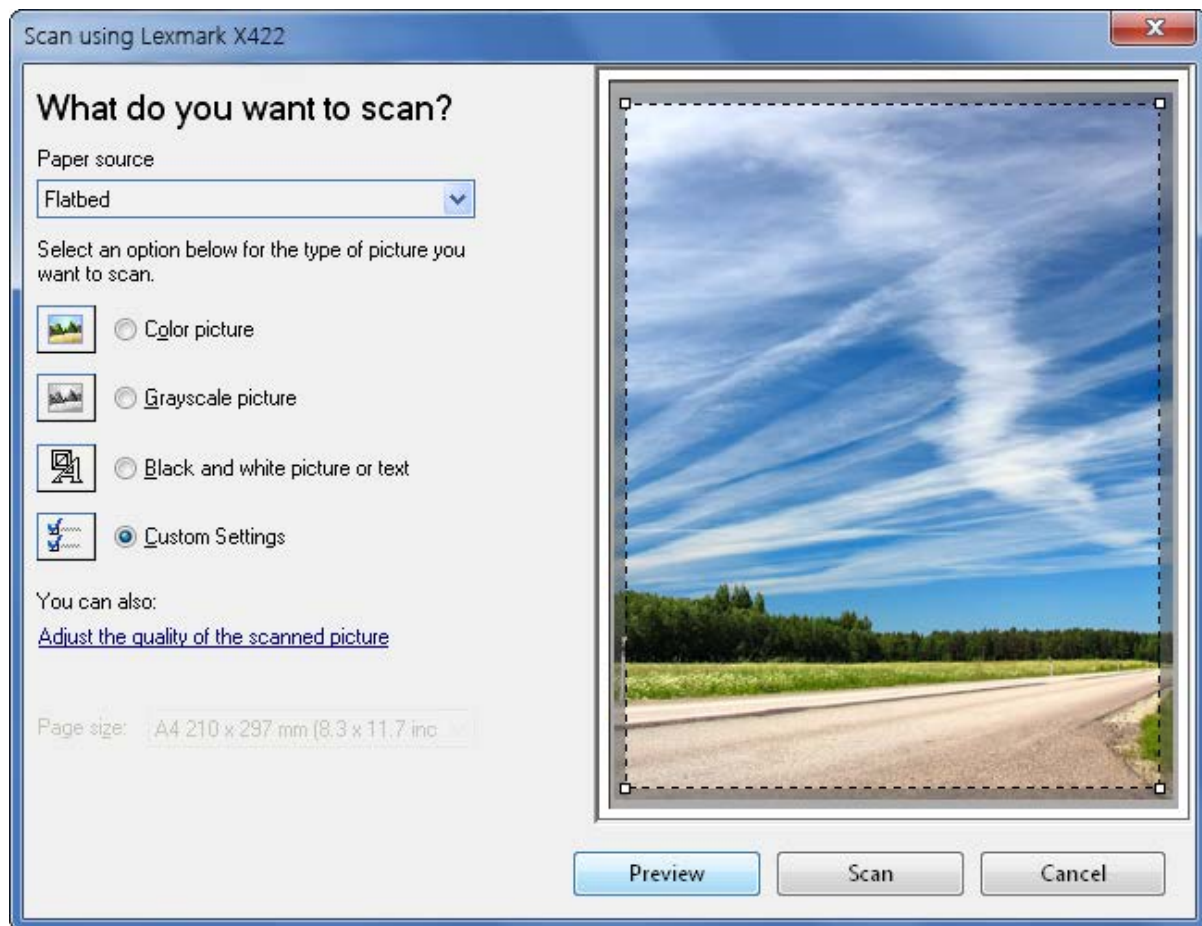
*Asking to embed a picture from a file or link to an external file brings up the Select Picture dialog.*



*When you select the “Get File Name from Database Field Option,” the Picture Properties dialog is displayed with the right radio button selected and ready for you to specify the database field name.*



*If you have more than one scanner available when you select “Insert from Scanner or Camera,” the “Scanner and Camera Setup” dialog is displayed so that you can select the right one.*



*Once you have specified the desired scanner (if necessary), you can also specify key scanner options.*

## Major Improvements in Font and Text Formatting

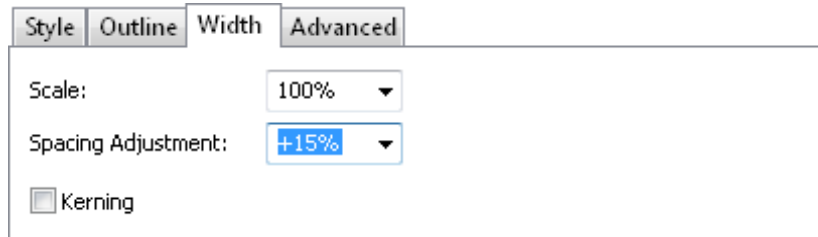
BarTender has for years delivered some of the most powerful font and text formatting capabilities in the automatic identification industry, including:

- “Rich text” objects that can import data from different database fields into differently-formatted portions of the object.
- Arc text
- The ability to link and embed HTML and XAML text.

Now, with version 10, BarTender introduces font and text formatting functions previously seen only in high-end desktop publishing applications such as Adobe InDesign and Illustrator.

## Professional Font Formatting

With BarTender version 10, you can customize the appearance of your text as easily as with any professional graphic design program. (This includes the human readable text associated with bar codes.)



### Custom Spacing Adjustment

The new **Spacing Adjustment** option lets you to adjust spaces between characters as much as 100% smaller (that is, down to zero) and 400% larger. This lets you can customize the width consumed by a text object without stretching the text or altering the font size.

The following seven examples illustrate the effect of changing the **Spacing Adjustment** setting.

Sample Text  
Sample Text  
Sample Text  
Sample Text  
Sample Text  
S a m p l e T e x t  
S a m p l e T e x t

### Kerning of TrueType Fonts

Although many people confuse kerning with spacing adjustment (just discussed above), they are not the same. Kerning is the automatic adjustment of individual pairs of specific characters to compensate for extra space that can be introduced by their shapes. For example, in the following *unspaced* example, the “A” in “WATER” does not start until the “W” is complete and the “T” does not start until the “A” is complete. (The red line clearly shows that the “A” and the “T” do *not* overlap.):



Kerning has been turned *on* for this next example. Here, the “W” actually overlaps slightly with the “A,” which in turn overlaps slightly with the “T.”



Although the effect of enabling kerning for specific text objects is sometimes subtle, all professionally-presented text, such as in a magazine or typeset brochure, is kerned. Accordingly, kerning can be very helpful when you are trying for an especially professional look in a company name or other prominently-featured text object. It also helps to fit more text into a smaller space without harming the readability of the text. (In fact, kerning actually *improves* the readability of text.)

#### ABOUT KERNING PERFORMANCE:

It takes BarTender roughly three times as long to render kerned text as it does to render unknerned text. Although this would never be noticeable for small amounts of text, it might be for very large amounts. Accordingly, by default, kerning is not enabled. However, for most applications that do not involve very large amounts of text, it can be enabled without any noticeable effect on performance.

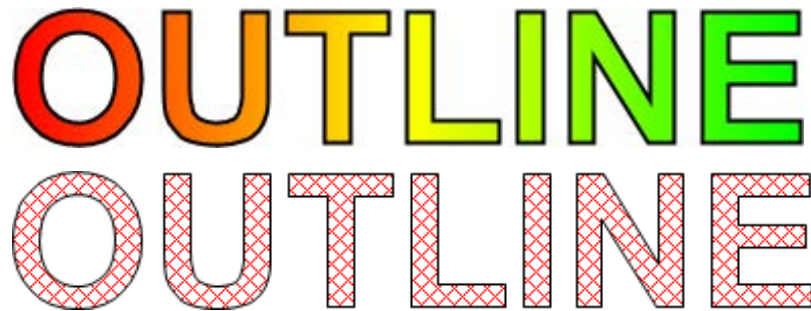
#### **Outlines for TrueType Fonts**

Another feature introduced in BarTender version 10 that is frequently seen in professional illustration and text layout programs is the ability to show just the outline for a font.





The font outline can be simple or compound and solid or dashed. Each of the font foreground, font background and font outline can be a solid color, a multi-step gradient, a pattern, or a bitmap. In addition, BarTender can also fill the outline with gradients, patterns, pictures and textures.



OUTLINE

OUTLINE

Outlines can also be turned off, leaving only the fill.



FILL ONLY

## Improved Paragraph Line Spacing

Previously, BarTender supported **Single**, **Double**, **Triple** and **Custom** line spacing settings.

### ***“Custom” Changed to “Exactly”***

With BarTender version 10, the **Custom** option has been renamed to **Exactly** to make it more consistent with Microsoft Word.

### ***Four New Line Spacing Settings***

In addition, the following four new line spacing settings have been added.

- **At Least:** Applies the wider of either single line spacing or the specified **At Least** value.
- **1.5 Lines:** This value has been added as an available preset.
- **Times:** Allows you to specify multiples or fractions of a line. For example you can enter 1.1 to specify spacing that is just a little taller than **Single**, or 0.9 to specify line spacing that is just a little tighter than **Single**.
- **Uppercase:** This setting specifies line spacing that is a slightly tighter than **Single**. It is especially applicable when printing text that is all uppercase, as it removes the unnecessary extra space below the characters that is normally reserved for the descenders of lower-case text.



## More Powerful Word Processor Objects

BarTender's Word Processor text objects (previously called Rich Text objects) already support many of the most powerful formatting capabilities available with any word processor, including bullets, numbering, multiple columns, superscript, subscript, multiple data merge fields and more! Now with version 10, BarTender's Rich Text objects are even more powerful than before.

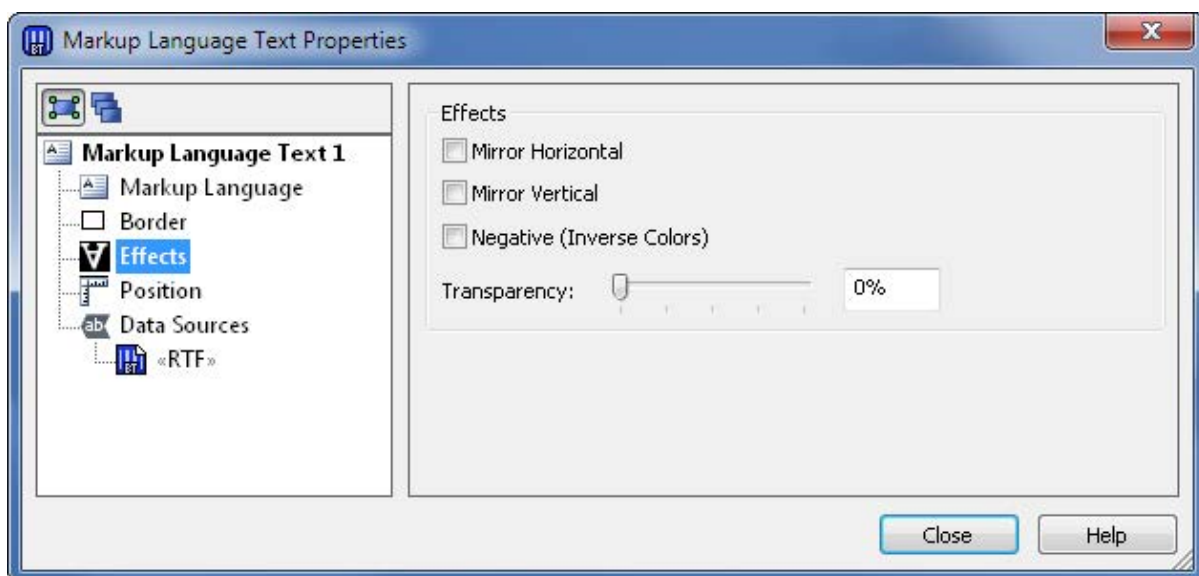
### Table Support

BarTender version 10 adds support for tables, including:

- Easily create tables with user-specified numbers of rows and columns.
- Quickly resize rows and columns using simple mouse motions.
- Choose any of 9 cell alignment options.
- Add new rows and columns as desired.
- Even paste in rows and columns from a spreadsheet program such as Excel! (Any equations defined in Excel are not retained, but formatting characters into rows and columns using Excel are a great way to start a table.)

### Advanced Text Effects

Word Processor objects are managed as TrueType bitmaps within BarTender. (In contrast, the Single-Line and Multi-Line text objects can be managed as built-in printer fonts, downloaded TrueType, or TrueType bitmaps.) Because a bitmap is basically a picture, BarTender's Word Processor objects can now also take advantage of three new graphic-processing effects now available to BarTender picture objects.



### *Mirror*

Easily flip a Word Processor text object vertically or horizontally.

### *Transparency*

Vary the transparency from 0% to 100%.

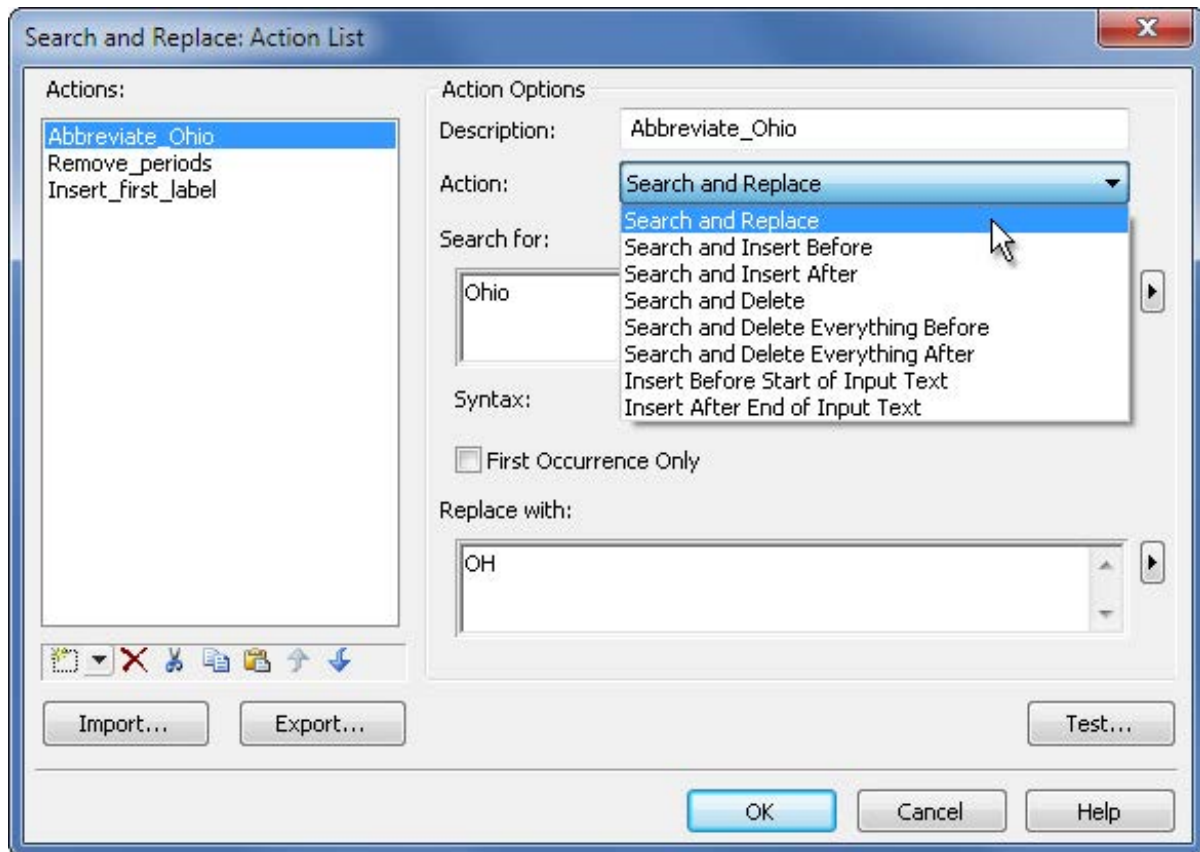
### *Negative*

Turn a text object into a “negative,” just as you might a picture graphic.

## **Search and Replace Data Transform**

There may be times when you have existing data stored in a database that you think is fine the way that it is, but you want it to print somewhat differently on your labels (or other printed items). Or, perhaps you *don't* like the way that some text appears in your database, but you have a poor relationship with your I.T. department and they laugh at you and make fun of your clothes whenever you ask them for help. BarTender's new **Search and Replace** transform can help resolve some of these challenges, including:

- Selected abbreviations that you would rather spell out.
- Words or phrases you wish to abbreviate (or perhaps not appear at all).
- Other text changes that you would like to make in your printed output, but not your main database.
- Text that you would like to insert in front of or after certain phrases.
- Text that you would like to unconditionally insert in front of or after *all* instances of a certain field.



### ***Much More than just “Search and Replace”***

Although the most basic of the **Search and Replace** options resembles what you see in word processing programs, such as Microsoft Word, this is *not* your grandfather's search and replace. Features include:

- All search and replace actions get saved so that BarTender can execute them later at print time.
- Select from seven different action types besides just a simple **Search and Replace**. For example:
  - Search and Delete
  - Search and Insert Before
  - Insert Before Start of Input Text
  - And more!
- Create, name and save as many **Actions** as you need within a single transform. (This effectively lets you create a text transform script that can make highly complex changes to your input text.

(Note that even more advanced and versatile text transformation power is available using the VB Script transform.)

### **Support for Regular Expressions**

In addition to searching with and without wildcard characters (such as “?” and “\*”), BarTender can search using what are called “regular expressions.” These are special strings that allow more advanced users to perform more sophisticated searches than are possible with wildcards alone. For more general information about “regular expressions,” you can read the associated article on Wikipedia:

[http://en.wikipedia.org/wiki/Regular\\_expression](http://en.wikipedia.org/wiki/Regular_expression)

For more information about how to use regular expressions within the Search and Replace transform:

- Within BarTender help, search on “regular expression”.
- Among the retrieved topics, double-click on “Search and Replace: Action List Dialog”.
- Within the displayed help topic, review the content for these three sections:
  - Supported Wildcard Characters
  - Search Rules
  - Examples

### **Available in Commander Too!**

As described in a later section, Commander's existing Search and Replace functionality has been upgraded with all of the new BarTender functionality described above.

## **Graphic Import Improvements**

BarTender has long supported the import of images as embedded, linked and databased graphics. BarTender 10.0 expands upon this industry-leading functionality.

### **Import and Export PDF**

To the more than 70 graphic formats that BarTender can already import and export, version 10 now adds support for PDF. (This is Adobe's Portable Document Format, which can be created by Acrobat, Distiller and many other applications).

### **Large, Royalty-free Clip Art Collection**

For years, BarTender has made it fast and easy to add picture graphics to your templates. It is, of course, easiest if you already have the photograph or drawing available that you need. But what if you want to add just the right image to complete your template but you don't already have it? You could individually search different graphic sites on the internet looking for the right image, then get out your credit card to purchase it, then download it to your hard drive and, finally, import it into BarTender.

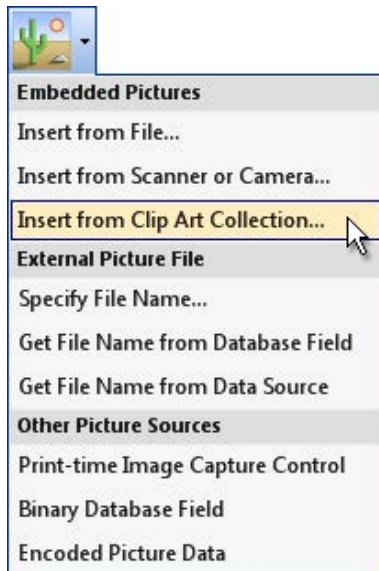
Or, you can use our new Clip Art Browser to find an image and pull it into BarTender in just a few seconds.

For free!

### **How the Clip Art Browser Works**


The Clip Art Browser is directly connected to a large, searchable on-line resource of royalty-free clip art. However, instead of searching for and viewing the artwork inside of Internet Explorer or some other browser, you do it all right inside of BarTender.

Start by selecting **Insert from Clip Art Collection...** from the  Picture toolbar button.



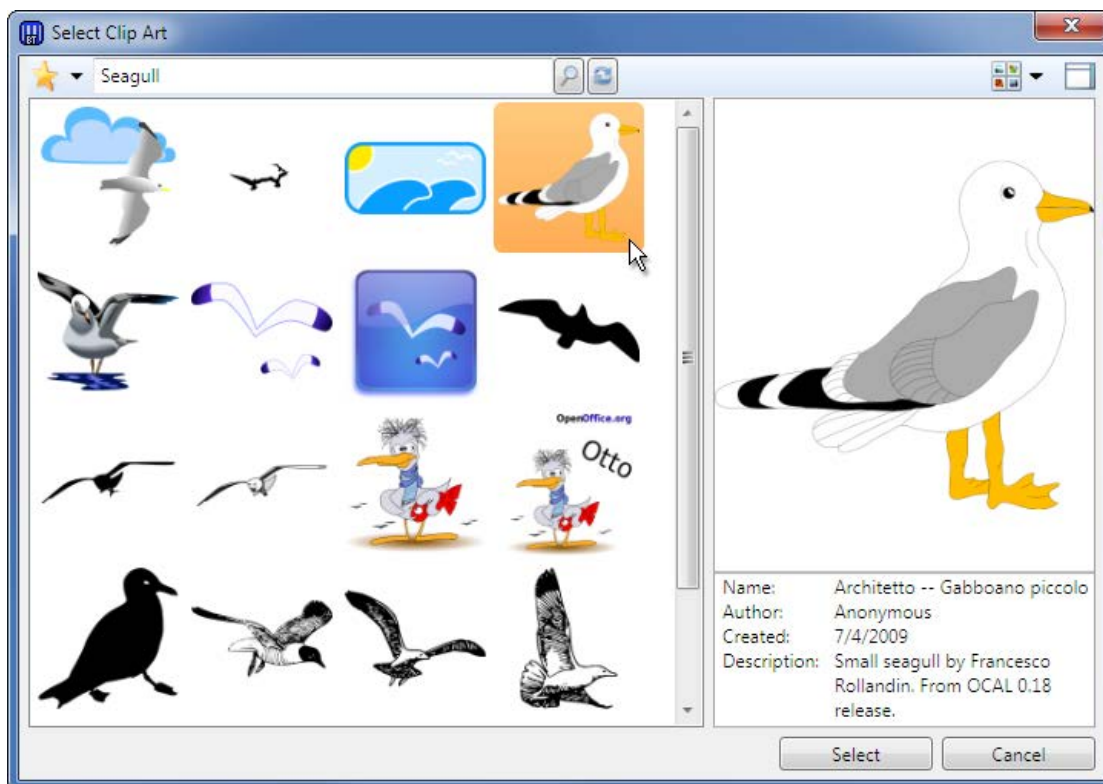
The Clip Art Browser will display, initially with its contents blank.



Simply type in a word or phrase describing the image you are looking for into the blank field in the upper left-hand corner (in this sample case, we have typed in “Seagull”). Then click on the  button just to the right. BarTender will automatically transmit your search criteria to the host server, retrieve the results, and display them within the browser – all in just a few seconds. Here is a sample:



To immediately import one of the graphics into your template, simply double-click on it. Alternatively, you can first examine the image in greater detail by single-clicking on it. This generates a larger preview image in the window to the right, as seen in the following illustration.



Finally, simply click the Select button to import the desired graphic into your template.

## Print-Time Graphics Import from Access Databases

BarTender version 9.0 added the ability to import “BLOBs” (“binary large objects”) from databases that support the SQL BLOB type. This feature allows BarTender to import a different graphic for each database record read and to flow that graphic into a placeholder in your template. BarTender version 10 now extends its BLOB support to Microsoft Access databases. (At this time, BarTender’s BLOB support is only useful for reading graphics from databases.)

## Far More Flexible Document Format

Prior to BarTender version 10.0, the designs that you created with BarTender were referred to as “label formats.” When these label formats were saved to disk, we also referred to the saved document files as “label formats.” Furthermore, any one label format document could only store one label design.

## New Document Terminology

A new, more flexible document structure introduced for BarTender version 10.0 requires that we now differentiate more clearly between the concept of a “document” and what we used to call a “label format.”

### Documents

Because BarTender can now design and print so much more than just labels, we now say that BarTender saves and loads “BarTender documents” instead of simply “BarTender label formats.” (When it is obvious that we are talking about BarTender, we sometimes use the single word “documents” instead of the longer expression “BarTender documents.”)

### Templates

The design that you created and viewed inside of BarTender that used to be called a “label format” is now referred to as a “template.”

## BarTender Documents Can Now Have Multiple Templates

When you create a new BarTender document, your BarTender screen still starts out with just a single, blank template. However, BarTender 10.0 introduces the ability to design and store *multiple* templates within a single document. There are many uses for this, including:

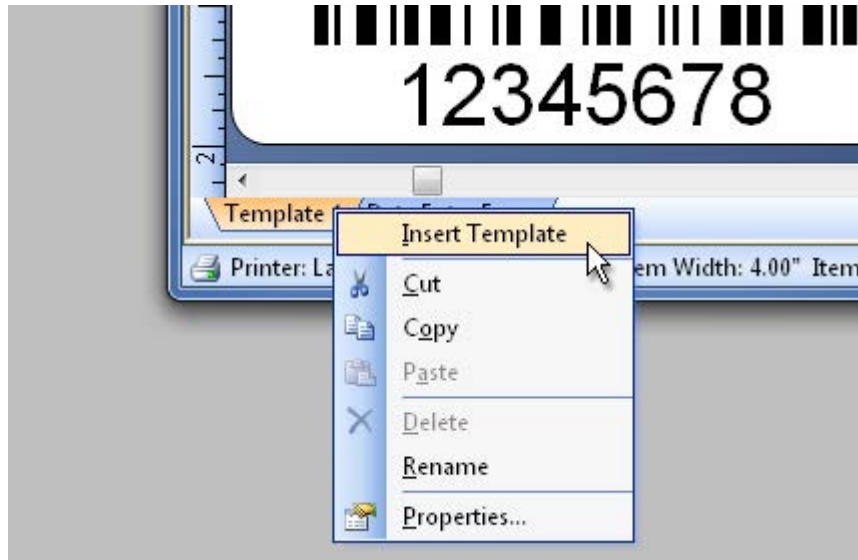
- Two-sided design applications, including:
  - Plastic cards
  - Shipping labels that have packing slips on the reverse side of the label backing.
- Labels for parts that require a different template depending on the type of part in use.




- Membership cards that require a different template depending on the type of membership.
- Placing a “separator” template at the beginning and/or end of a job to make it easier to tell when one job ended and the next one started.

### **Easy to Add Additional Templates**

To add another template to an existing BarTender document, simply right-click on the template tab at the bottom of your template design area.



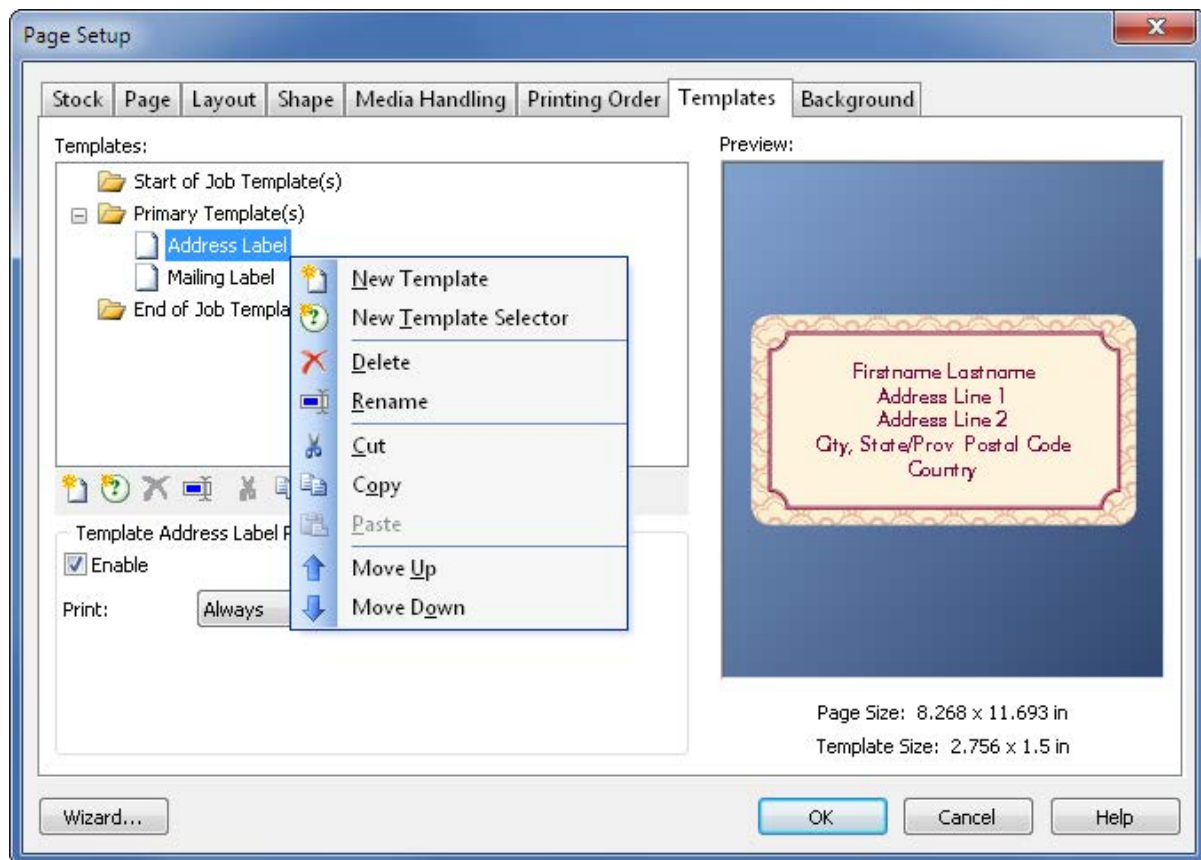
You can also add additional templates using the **New Template** button  at the left of the toolbar on the **Templates** tab. (Please see graphic below.)

### **Powerful New Template Tab and Navigator**

In order to take advantage of the ability to have multiple templates in a single document, you need an easy way to:

- See how your templates are organized.
- Reorder templates.
- Specify conditional printing criteria.

This is all made possible by the Templates navigator pane on the left side of the **Templates** tab of the **Page Layout** dialog.



*Template navigator in this dialog shows that the open BarTender document contains two templates. You can manage templates by right-clicking, by using the associated toolbar, and by dragging.*

Using the **Templates** tab of the **Page Setup** dialog and the associated **Templates** navigator pane in the top-left corner, you can:

- Add, delete and reorder templates.
- See a preview of the currently-selected template.
- Specify separate, conditional printing criteria for each template.

### **Easy to Reorder Multiple Templates**

To change the order of your templates, including the order in which the names are displayed on the tabs at the bottom of the template design area, access the **Template** tab in the **Page Setup** menu using any of the three methods available in BarTender. Once the **Template** tab is displayed, simply click and drag templates up or down in order to change their order.

### **Conditional Template Printing**

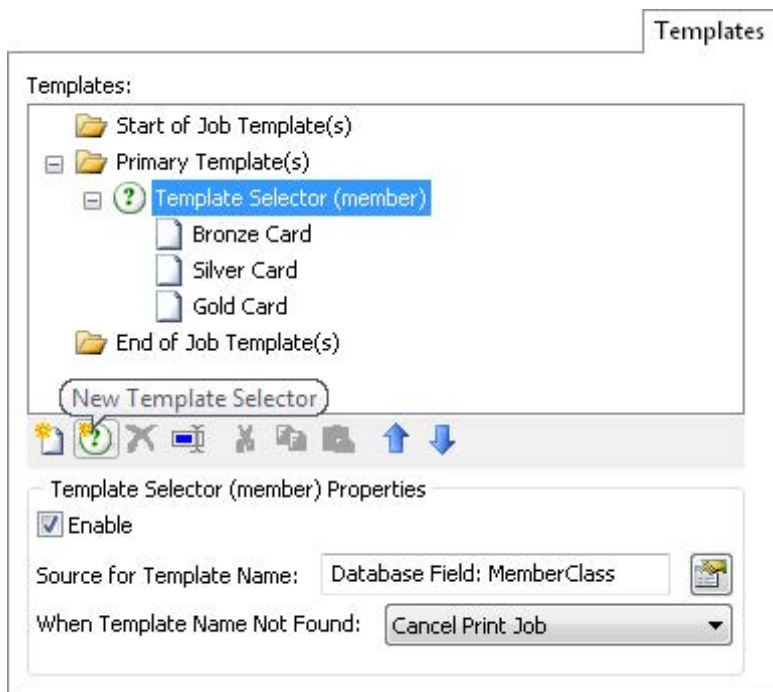
BarTender 10.0 greatly simplifies the challenge of printing different templates depending on what data was read from a database field or entered into a form. For example, suppose you are printing membership cards and you have some “gold” members and some “silver” members. Rather than having to actually load a completely different document (as you would

previously have had to do), BarTender version 10 can now automatically select which template(s) to use based on specified data conditions.


Two methods of selecting the desired template(s) are available. (In some special circumstances, *both* methods could possibly be used at the same time, although this is not typical.)

### ***Template Selectors (Chooses One Template)***

You use “Template Selectors” when you only need to print one template for each single customer, part, or other item that you are printing.



### **To Create and Use a Template Selector**

1. Bring up the **Page Setup** dialog by double-clicking on a blank portion of the template or by accessing the **File, Page Setup** menu option.
2. Click the **New Template Selector** button  in the toolbar underneath the **Templates** navigation pane.
3. In the **Properties** pane at the bottom of the **Templates** dialog, specify the database or data entry field you want to use to control template selection at print time. The data provided by the field will specify the name of the template to print.

### ***Data Sourced Template Enabling (for Optionally Printing Multiple Templates)***

Sometimes, you may want to conditionally output two or more different templates at a time for a single customer, part, or other item. In this case, you should use Data Sourced Template Enabling instead of Template Selectors. Data Sourced Template Enabling works

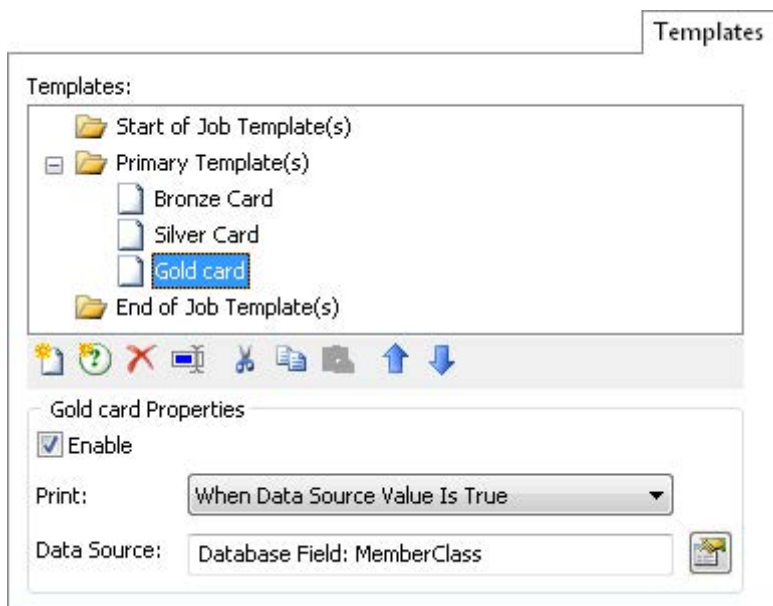
by evaluating “Boolean” conditions for each template. A Boolean expression is commonly referred to as a “TRUE/FALSE” expression (or “Yes/No” in some databases).

**A NOTE ABOUT “TRUE” AND “FALSE”**

BarTender actually treats any field or expression that does not evaluate to either FALSE or 0 as passing the “TRUE/FALSE” test. In other words, when a field or expression evaluates to NOT FALSE, the associated template will print.

Examples of conditions that could control whether or not a template prints include:

- A field in a database (“MemberClass,” in the sample screen shot below) is equal to TRUE (or any value other than 0 or FALSE).
- A user clicks on a checkbox on a data entry form.
- The code for a named VB Script data source evaluates to TRUE, such as MemberClass = ‘Gold’. (Again, as long as the condition evaluates to something other than 0 or FALSE, the label will print.)



**To Use Data Sourced Template Enabling:**

4. As in the previous example, bring up the **Page Setup** dialog by double-clicking on a blank portion of the template or accessing the **File, Page Setup** menu option.
5. In the **Templates** navigation pane, select the template whose enabling criteria you want to define first.
6. In the **Properties** pane at the bottom of the **Templates** dialog, specify the database or data entry field that will be True or False, or the expression that will evaluation to True or False.

### **Start and End of Job Templates**

Sometimes, you may want a special template to print out at the beginning and/or end of a job that is different from the template(s) used for the rest of a job. For example, if Bob is sharing a printer with multiple people, he might want to have the labels he requests preceded and/or followed by a special label that says “Bob’s Labels Start Here.”

BarTender version 10 adds support for **Start of Job Templates** and **End of Job Templates** on the **Template** tab of the **Page Setup** dialog. Using these new features, you can specify one or more special templates that appear only at the beginning and/or end of a print job.

### **RFID Support Now Provided in Professional Edition**

Prior to BarTender version 10, support for the encoding of data into tags and labels containing RFID chips was only provided in the two Automation editions. RFID support for these tags and labels has now been added to the Professional edition as well. (The encoding of data into memory chips built into “smart cards” requires use of the Enterprise Automation edition.)

### **Greatly Expanded Librarian Integration**

When you store and manage documents using the Librarian companion application (instead of simply placing them into regular Windows folders), you benefit from a variety of enhanced security, collaboration, publishing and workflow management capabilities. (For more information, please see the [Librarian white paper](#).)

Previously, only BarTender and Security Center were integrated with Librarian. Now, with the release of BarTender 10.0, we have not only expanded BarTender’s integration with Librarian, but we have also given more Companion Applications access to Librarian.

(The Librarian companion application is only available with the Enterprise Automation edition of BarTender.)

### **Improved BarTender Integration with Librarian**

When any of the following document types are stored in Librarian, they can now be accessed by BarTender.

#### **BTXML Scripts**

BarTender XML script files (files with an extension of “.BTXML” that conform to a specific XML format).

### **BarTender Batch Files**

BarTender batch files (files with an extension of “.BTBAT” that describe one or, more typically, multiple print jobs to be executed). These files are created using the Batch Maker companion application.

### **Compatibility with BarTender's Default Document Paths**

The **Folder and File Locations Setup** dialog of BarTender's **Administer** menu is used to specify default paths for BarTender to search for a variety of document types. The default paths for the following document types can now include a path into Librarian:

- Pictures
- Background Pictures
- Documents
- Batch Files
- XML Scripts

### **History Explorer Integration with Librarian**

Now, when displaying logs of past print jobs based on BarTender documents that are stored in Librarian, History Explorer properly displays:

- The full document path, including the “lib://” prefix.
- The revision number of the document in Librarian.

### **Batch Maker Integration with Librarian**

The Batch Maker companion application can now **Open**, **Save**, **Check In**, and **Check Out** “.BTBAT” files from Librarian.

### **Commander Integration with Librarian**

**Task Lists:** The Commander integration utility can now **Open**, **Save**, **Check In**, and **Check Out** task lists from Librarian.

**Linked XSL Style Sheets:** If you have configured Commander to use XSL style sheets to transform XML trigger content, your Commander task lists can now link to XSL style sheets stored in Librarian.

## **New Simplified and Integrated Installer**

The new install program for the BarTender Application Suite is much faster and easier to use.

## Smarter Install Process

The program that installs BarTender is now much more intelligent about what questions to ask and which files to install based on which of the four BarTender editions are being installed.

### *Basic and Professional Editions*

In the past, installations of the Basic and Professional edition of BarTender unnecessarily asked some questions that were only required when installing the Automation editions. The installation still proceeded properly, but the user was required to specify and select more options than necessary. Now, with BarTender 10.0, the following unnecessary installation options are skipped when installing the Basic or Professional edition:

- Information required for the BarTender System Database
- Installation of the BarTender System Service
- User account information

In addition, Companion Applications that are only usable by the Automation editions are by default not installed unless users explicitly specify that they want to try them out.

### *Automation Editions*

A number of improvements simplify installation of the Automation and Enterprise Automation editions.

#### *Option for Single-Step Install of BarTender and SLS*

In the past, users of the Automation and Enterprise Automation editions always had to run through an install procedure for Seagull License Server that was completely separate from the install procedure for the rest of the BarTender Application Suite. This is unnecessary extra work if you are going to use one of your BarTender computers to host SLS as well.

SLS has always had the ability to run on the same computer as a copy of BarTender. However, this previously required execution of two completely separate installation programs. Now, with BarTender version 10, SLS can optionally be installed on the same computer as part of the standard installation procedure for BarTender. In this case, no questions need to be asked about what server SLS should be installed onto, since the install program already knows.

#### *Easier and Optional Entry of Network Credentials*

If you will be installing or connecting to a BarTender system database in support of any of the Companion Applications, you need to provide the installer with the login name and password of a user account with the necessary system permissions. This user account information page is now much easier to understand than it used to be. Furthermore, you can now skip this step completely and easily come back to it later if and when you need the necessary system access.



### **BarTender Web Print Server**

Users of BarTender Web Print Server (available with the Enterprise Automation edition only) used to have to execute a separate install program to install WPS. Now, with BarTender version 10.0, you can optionally install WPS from within the same Setup.exe install program used for BarTender.

### **Improved BarTender Download Options**

So that people wouldn't have to download a larger size file than necessary, there used to be text links to four different-sized download options on our BarTender download web page. This has now been changed to *two* download options.

#### **Install from the Web**

The first (and most prominent) download option is accessed from a button that looks like this:



When you select this option, you download the same installer that is now shipped on the new BarTender version 10 CD. (Nothing else is initially downloaded.) This relatively small 10 MB file download is obviously ready to run much faster than even our smallest download was with previous versions of BarTender. Once you run it, you can then specify which of the four BarTender editions you want to install. You can also individually specify which of the Companion Applications and other optional modules you want. The installer then downloads the options and modules you have specified from the web *and* installs them on your computer.

#### **Full Download**

Alternatively, you can click on a link that says [full download](#) and perform a single, large download of approximately 230 MB. This is roughly equivalent to what had previously been referred to on the web site as [Full BarTender Suite \(Multilingual\)](#), which was the largest of the four previously-available download links.

## **Improved Document Management**

### **Expanded Support for Windows Explorer Thumbnail Previews**

When using Windows Explorer to view documents, the associated applications often let Windows show you a "thumbnail" preview of the document. This gives you a good idea of what each document looks like without necessarily having to open the document and its associated application. BarTender version 10 introduces expanded support for thumbnail previews.

### **Now Supports 64-bit Versions of Windows**

Previously, Windows Explorer could only show thumbnail previews of BarTender documents when using the 32-bit versions of Windows. These thumbnail previews are now displayed when using the 64-bit versions of Windows (x64) as well.

### **BarTender “Component” Files now Supported**

For years, BarTender has supported the ability to export multiple objects from your template and save them together as a reusable “component.” These are saved in a file with an extension of “BTC” (for “BarTender Component”). Now, with BarTender version 10, Windows Explorer can show you on-screen previews of these components (BTC files), just as it has for years displayed previews of the templates in your BTW document files.

### **Customizable Previews**

Ordinarily, the template (or *first* template, if there is more than one) in a BarTender document is what appears as the thumbnail image when previewing a BarTender document within Windows Explorer or the Print Station companion application. However, sometimes you may want to view a different image or possibly (perhaps for security reasons) you may want to suppress the preview image altogether. The **BarTender Document Options** dialog of the **File** menu now has a tab called **Preview** that allows you to specify a custom preview image for a document, or disable display of the preview altogether.

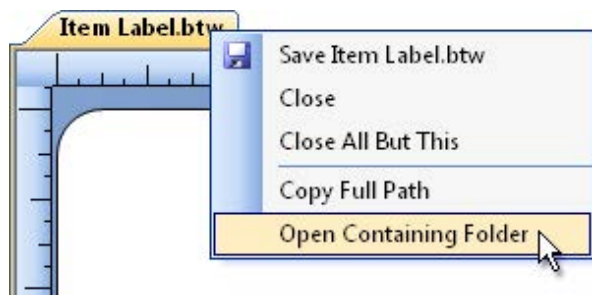
### **Viewing of Documents Can Now be a Protected Action**

In the **Protected Action** section of the **BarTender Document Password...** option of the **File** menu, users can easily prevent other users that don't have the right password from performing basic document functions such as modifying, printing and saving. However, until now, a user without any of these permissions could still open and *look* at a BarTender document, even though they couldn't do anything else with it.

In some regulated environments even *seeing* a document is something that needs to be password protected. Version 10 of BarTender therefore adds a new **Protected Action** called **Open Document**. When this option is checked, a user without the right password cannot even *see* what the template(s) in the associated BarTender document look like.

## More Convenient Document Management Functions

You can now access certain document management functions directly from the document name tab at the top left corner of your template. Simply right click on the tab containing the name of your BarTender document to get immediate access to the document management functions seen in this graphic. (Note that the **Copy Full Path** and **Open Containing Folder** options are brand new.)



## Additional New Features

BarTender version 10.0 also includes the following additional features.

### Improved Search and Replace Transform in Commander

The Commander integration utility most-typically works by sensing one or more trigger events and then communicating with BarTender in order to launch a BarTender print job. These triggers (such as files, e-mails and TCP/IP communications) may contain data to be printed, XML commands for controlling BarTender, or both. Sometimes, however, the data that is easiest to export from your existing software as triggers for Commander is not exactly the right data required to control BarTender or print data on your labels, tags, cards or other items. For this reason, Commander offers “Search and Replace” transforms that allow you to modify the received trigger content at print-time by performing one or more text modification actions that you define.

#### ***Search and Replace Upgraded with all of BarTender's New Functionality***

As described in an earlier section, a new **Search and Replace** transform has been added to BarTender, thereby giving it a variety of powerful functions for modifying the contents of sourced data. All of that powerful new functionality has also been added into Commander's Search and Replace function as well. Enhanced features include:

- Improved user interface
- Support for Regular Expressions
- Four new Search and Replace actions (which brings the total to eight different types of actions).

Please see the previous section about BarTender's "Search and Replace Data Transform" for more details.

## New Export Functions for History Explorer

The History Explorer companion application lets you view, sort and search through detailed job logs that BarTender and Commander have recorded. History Explorer now offers improved export functions for a number of items stored in the BarTender System Database.

### Export and Print Logs

Previously, you could only view job logs on screen inside of History Explorer. Now, with the release of BarTender version 10.0, you can print and/or export these logs as well. (The following actions require users to have appropriate security permissions, as defined in the Security Center companion application.)

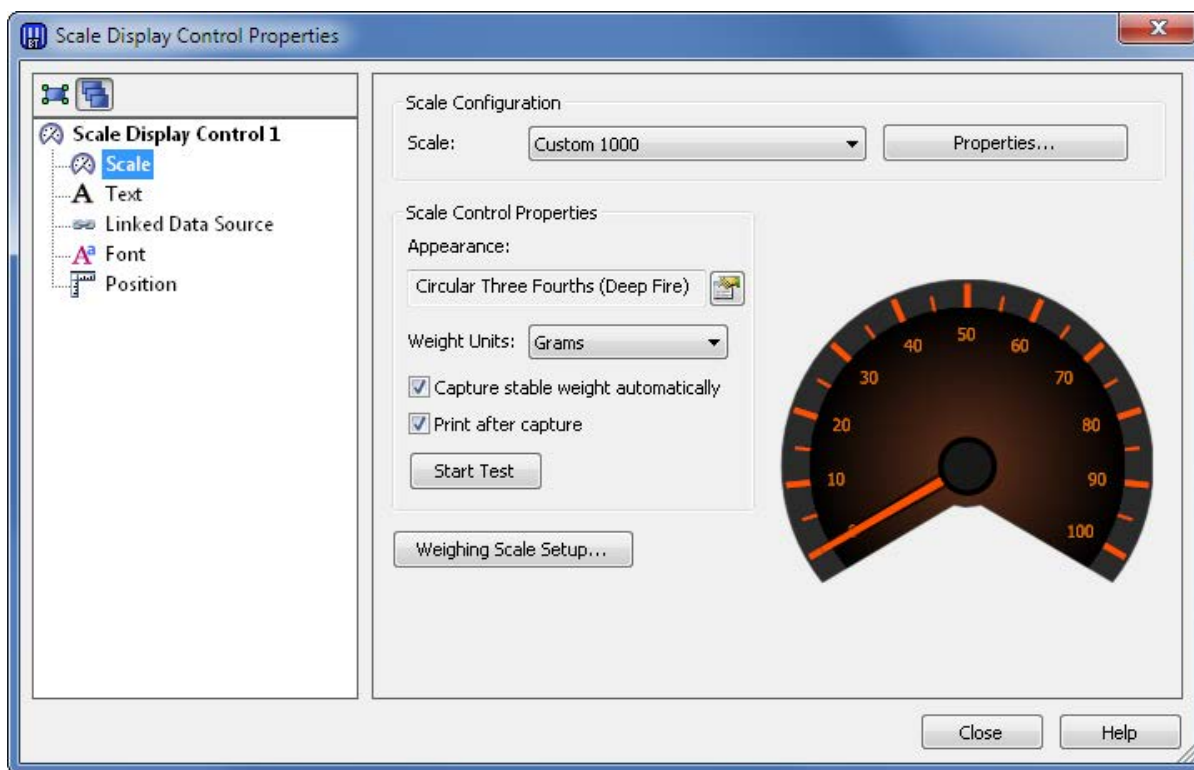
### Export BarTender Documents

When logging print jobs, it has been an established feature that you can optionally copy the BarTender document and associated templates into the BarTender System Database as part of your print job log. This ensures that you can *exactly* reprint labels in the future, even if your BarTender template(s) have changed. It is also useful for general production review and audit preparation. With BarTender version 10, History Explorer can now export any BarTender documents that have previously been saved into the System Database. This allows for more precise inspection of past print jobs and even provides an alternative to our Librarian application for "rolling back" to older versions of a BarTender document.

## Improved Weighing Scale Features

### Automatic Print After Capture

BarTender's scale support already previously had a feature called **Capture stable weight automatically** that freezes the scale display (and therefore the weight) once a stable weight has been detected. However, you still needed to press the on-screen **Print** button in order to actually print the label. Now, with version 10, the new **Print after capture** feature (see graphic, below) supports automatic printing of the label as well (once the stable weight has been detected).



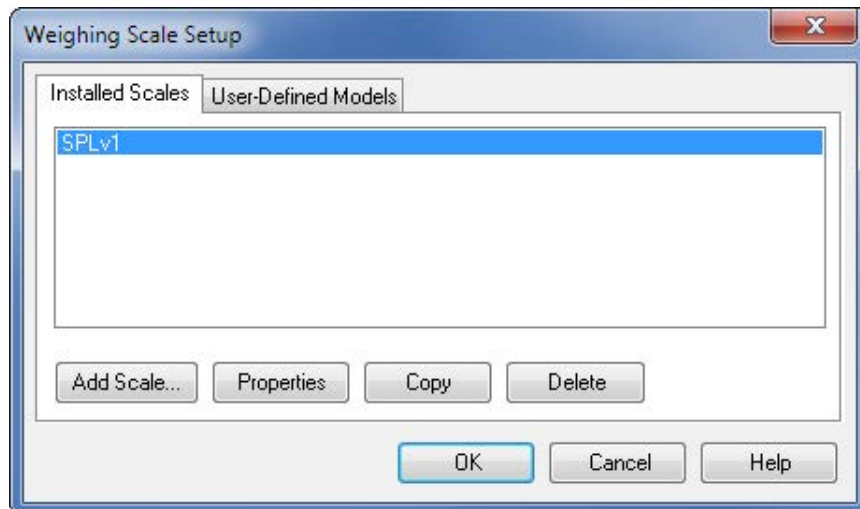
### **Easier to Modify Existing Scale Models and Protocols**

Although BarTender ships with predefined model lists and protocols for many known scales, it does not ship with support for all known scales. Accordingly, if you are using a scale not yet explicitly supported by BarTender, you need to define your own protocol. If the manufacturer of your scale has one or more other models already supported by Seagull, it is usually a simple matter to use one of BarTender's existing scale protocols, although it may need some modifications. Otherwise, if your scale manufacturer is not yet supported, you will likely have to develop your protocol based on the technical manual for your scale.

BarTender's scale support (introduced in version 9.3) has always made it relatively easy at the time of initial Scale Setup to define your own scale model names and customize existing scale protocols to meet the needs of scales not explicitly supported by BarTender. However, BarTender did not previously allow you to *modify* these definitions once they had been saved as part of the installation of a new scale. Accordingly, until now, the only way to modify your scale protocol was to again run through the Scale Setup procedure, installing the scale all over again (sometimes multiple times) until you got it right.

BarTender version 10 introduces two new tabs to the **Weighing Scale Setup** dialog that make it much easier to modify user-defined scale models and protocols:

- User-Defined Models
- User-Defined Protocols



Using these new tabs, if you want to edit the existing definition of a user-defined scale model or protocol, you can easily do so without having to reinstall the scale.

### Log User Name to a Text File

The most powerful logging options offered by BarTender involve logging events to a BarTender System Database and viewing the logs using History Explorer. However, the BarTender System Database and the associated logging functions are only available with the Automation and Enterprise Automation editions of BarTender. Alternatively, the Professional edition (as well as the two Automation editions) also support a much more limited set of functions for logging print job information to a text file. When logging print jobs to a text file, the name of the current user (username) is now a field that can be logged.

### Support for Print Quantity Commands Beyond Four Billion

Previously, regardless of the print quantity that a printer supported, BarTender could not request more than 32,767 labels at a time from the printer. So if you told BarTender to print 50,000 copies, it would break the print job into two print requests: The first for 32,767 copies and the second for another for 17,233 copies. This was confusing for users, especially if the printer displayed the number of copies requested and/or remaining.

BarTender version 10 raises the number of labels (or other items) that BarTender can request at once from the printer to just over four billion. This means that, from now on, the maximum print quantity will never be limited by BarTender. Sending jobs with a single large quantity command (rather than two smaller quantity commands) is useful in the following situations:

- You want the front panel to accurately show the total quantity requested or remaining.
- You want to specify a quantity sufficiently large to keep the printer printing indefinitely.

## Expanded Printer Function in the Print SDK

We've added the following features to the Print SDK:

- Get the printer's status
- Send data to a printer
- Read the response from the printer

## Improved Time/Date Support





### *Support for Fractions of Seconds*

BarTender date/time formats now support hundredths and even thousandths of a second, as required by some military and other specifications.

### *Support for ISO 8601 Date/Time Format*

Support for the ISO 8601 international time/date standard is not one of the standard date formats already provided by Windows. However, we have added that support as part of BarTender version 10. This includes support for ISO week dates.

## Full Color Screen Cursors

Now, when the mouse pointer  changes in order to clarify the action being taken, such as adding a bar code  or text  to a label, the screen cursor is no longer limited to just black and white. The most common use of this new feature is to create a shadow that makes the cursor stand out better against template objects as it moves over them. However, when appropriate, the cursor can display color as well, such as with the Create Component cursor .

## Luhn Check Digit Function Added to VB Script

The last digit on your credit, ATM and other bank cards is actually a Luhn check digit. In addition to a large variety of other check digit calculation functions already available in BarTender's VB Script function library, BarTender version 10 now adds the LuhnMod10 function for calculation of this check digit as well.



## Available Seagull White Papers

### General White Papers

- The Advantage of Drivers by Seagull

### Companion Applications

- Printer Maestro: Enterprise Print Management
- Librarian
- BarTender Security Center
- BarTender Web Print Server

### Recent Upgrades

- What's New in the Latest BarTender

### Integration White Papers

- Integration Overview
- Commander
- Commander Examples
- BarTender's .NET SDKs
- BarTender's ActiveX Automation Interface
- Exporting Printer Code Templates
- Using BarTender with Remote Desktop Services and Citrix XenApp
- Integration with Oracle's WMS and MSCA
- Integration with IBM WebSphere Sensor Events
- Integration with SAP

### Miscellaneous White Papers

- Weighing Scales
- Dynamically Changing Objects at Print-Time using VB Script
- GHS Labeling
- Licensing for BarTender's Automation Editions
- Printing International Characters Using BarTender
- BarTender Software Activation
- Using BarTender's Application Identifier Wizard
- Optimizing Label Printing Performance
- Status Monitor Overview
- Silent Install

For downloadable versions, visit:

[www.seagullscientific.com/aspx/white-papers.aspx](http://www.seagullscientific.com/aspx/white-papers.aspx)

