

# BarTender<sup>®</sup> 2022 Preview 2

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## WHAT'S NEW

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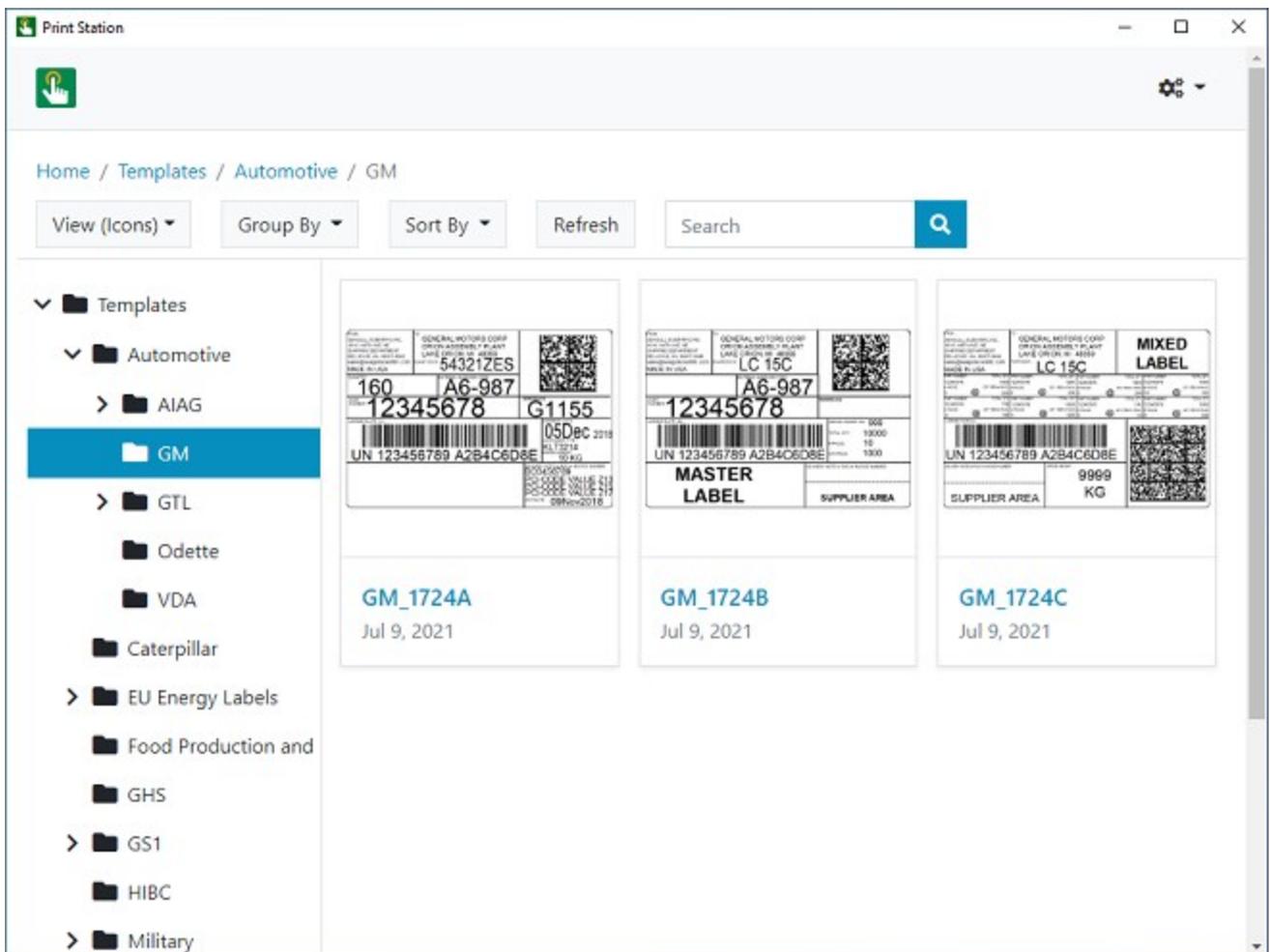
## About BarTender 2022 Preview 2

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

With the release of BarTender 2022 Preview 2, Seagull Scientific continues to enhance your design and printing experience and provide easier ways to manage and administer your print operations. This document describes the most significant features that were added or improved in BarTender 2022 Preview 2.

## Print Station Redesign

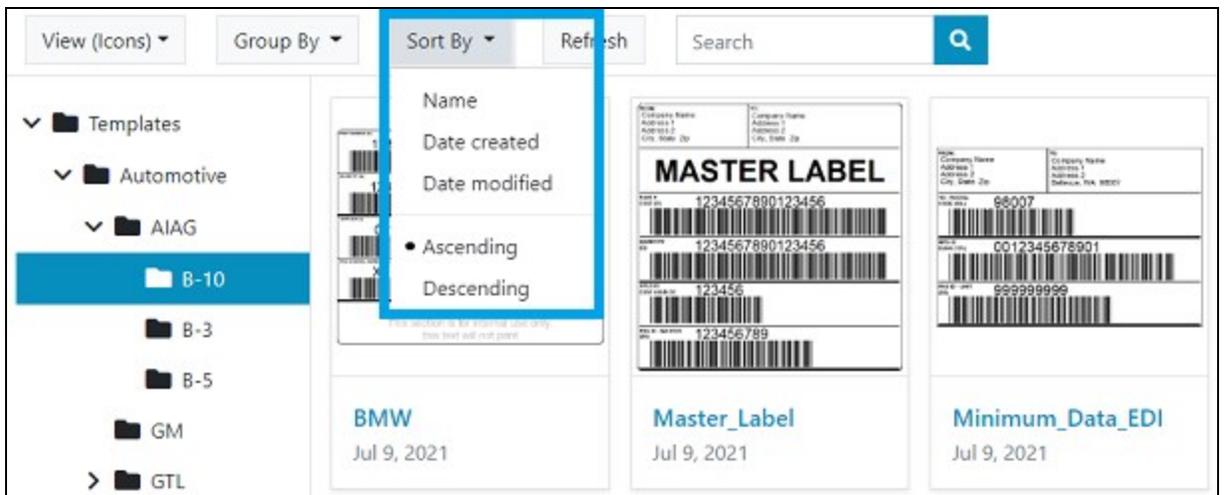
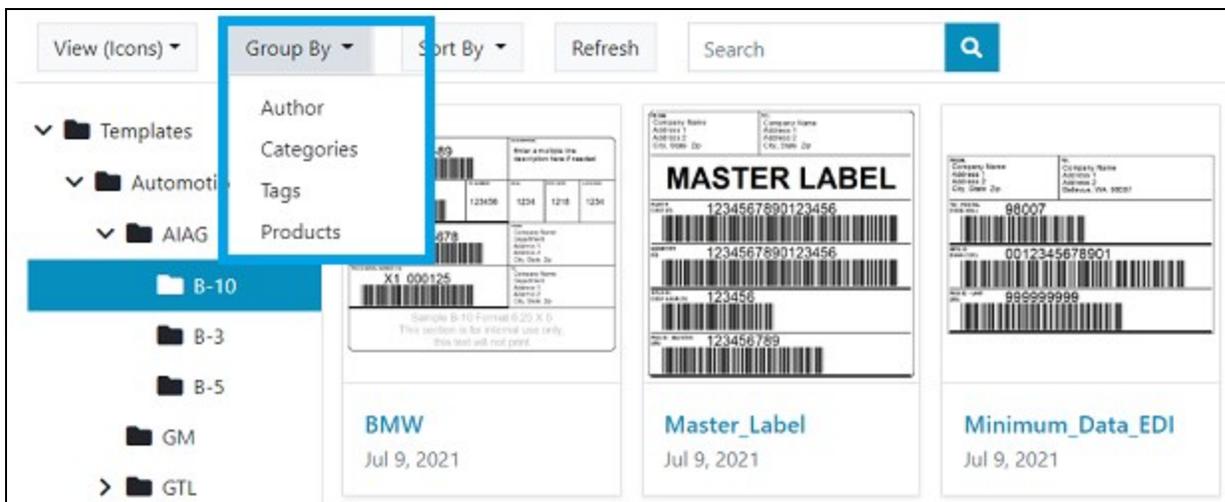
Print Station is redesigned to have a modern user interface, improved performance, and streamlined functionality. The redesign is modeled after BarTender Print Portal and has near parity with its features.



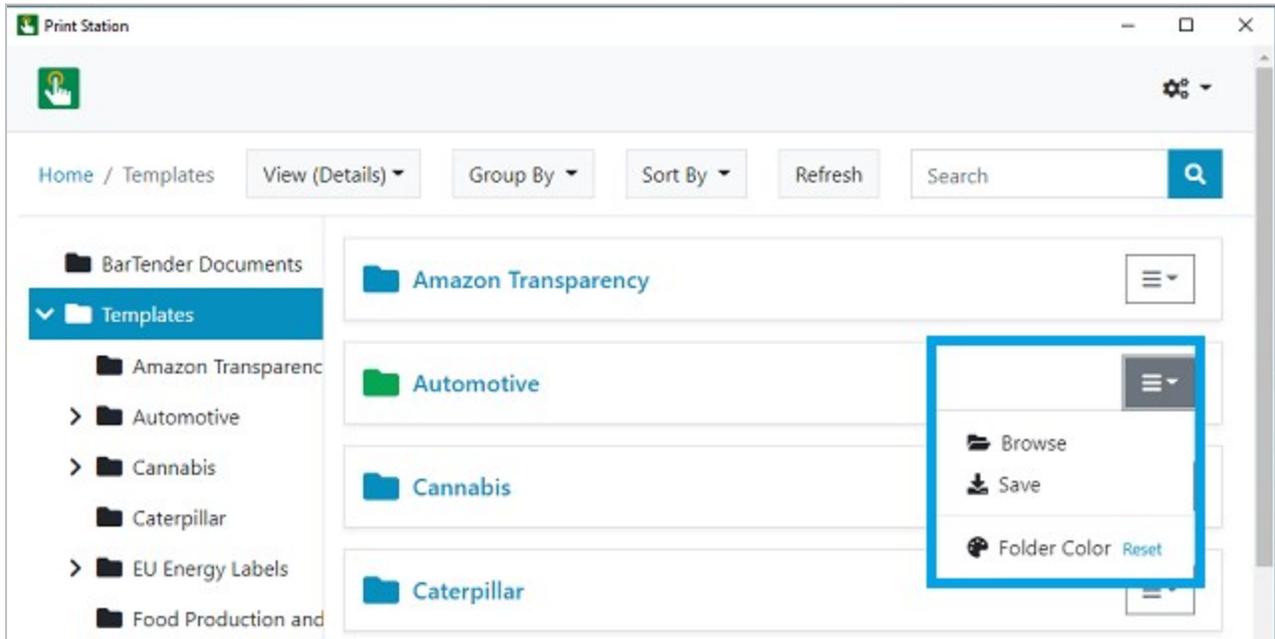
You can run Print Station on any computer that has BarTender installed. It can access files on any local or network directory after you add these directories as root folders by using the Administrative Setup page.

The new design continues to provide the features that you want in a click-and-print environment. You can use the modern interface to easily find and open the BarTender documents that you want, select a printer to send the print job to, and enter data into the data entry form as applicable at print time. You can also quickly locate and run Process Builder process files and BTXML script files.

Users can look for the file that they want by using familiar folder navigation. Grouping and sorting options are added to make it easier to organize your folders and files and to find the file that you need. Users can group by author, categories, tags, or products, and sort by name, date created, or date modified. Users can use the Search bar at the top of the Print Station window to enter all or part of a file name to locate a document, or enter a file name extension to locate a particular type of file.

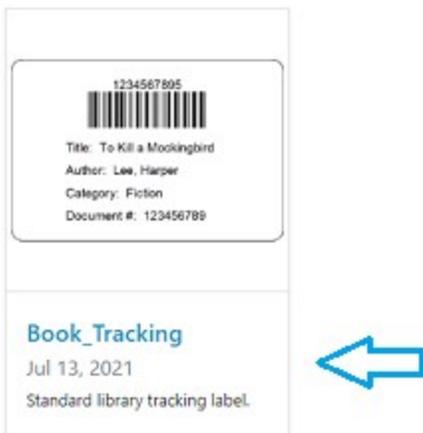


Users can also specify different colors for individual folders by using the new **Folder Color** option.



### File Information

Print Station displays file names, comments and file information for each BarTender document. The comment that is displayed is the one that is specified for the document in BarTender Designer by using the **Comments** tab of the **BarTender Document Options** dialog.



### Printing

When you set up Print Station, you can choose how much control users have over printing a document. One click (or tap, in a touchscreen environment) on a document can do either of the following:

- Immediately send the document to the printer together with the default printer settings
- Display a print dialog that users can use to modify certain print settings (such as the printer to use or the number of copies to print) before they run the print job

In either case, users can easily print any document that appears in the Print Station window with one click or tap. If a BarTender document uses data entry forms or query prompts, these dialogs appear in Print Station when the user starts a print job.

Print Station also supports the following features to help with printing tasks:

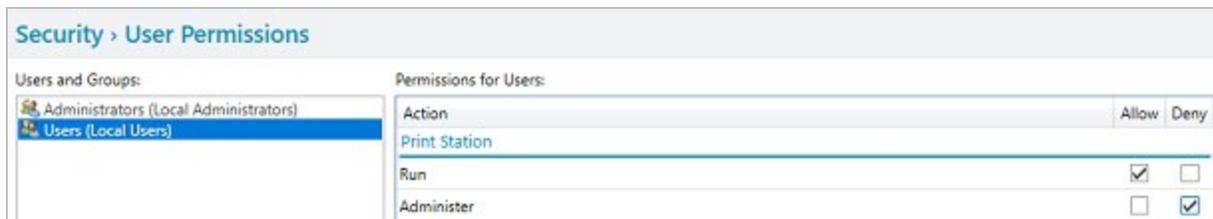
- **Repeat data entry until cancelled:** Print Station supports the **Repeat data entry until cancelled** print option in the **Print** dialog in BarTender Designer. This option specifies that when a print job is complete, a new print job is automatically run. This means that you need not manually restart a print job when you run multiple consecutive print jobs that use the same BarTender document.
- **Form-level actions:** Print Station supports the form-level actions that are configured in BarTender. These actions help you to manage forms and print jobs and to communicate information to print operators at print time. For example, you can configure actions to reset or clear form data, continue or cancel a print job, display a message, and more.

## Security

You can use one or more of the following methods to ensure the security of printing activities and administration settings.

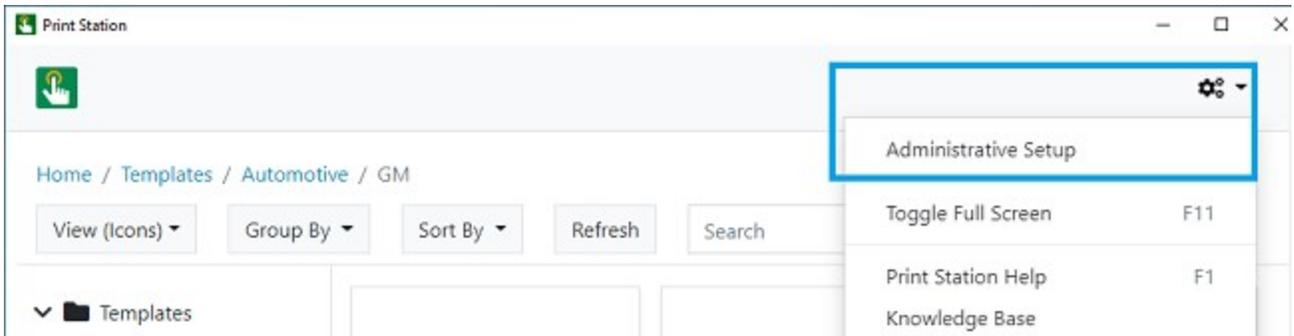
### Grant or deny user permissions in Administration Console

You can use Administration Console to grant or deny user permissions to prevent unauthorized access to and administration of Print Station. To do this, use the **Print Station** section of the **User Permissions** page in Administration Console.



### Configure security by using the Administrative Setup page

You can access additional Print Station security settings by using the **Administrative Setup** page. You open this page by clicking the  icon on the Print Station interface and then clicking **Administrative Setup**.



By using the **Administrative Setup** page, you can specify one or more of the following security options for the folders that are available in Print Station.

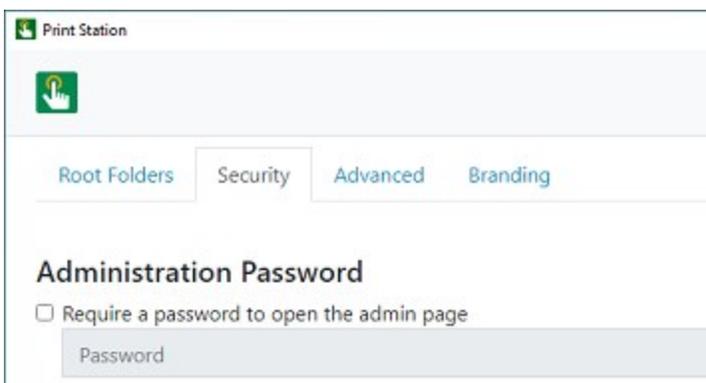
### Configure folder visibility

When you configure folder visibility, you specify the users that you want to be able to see a root folder.



### Configure password protection

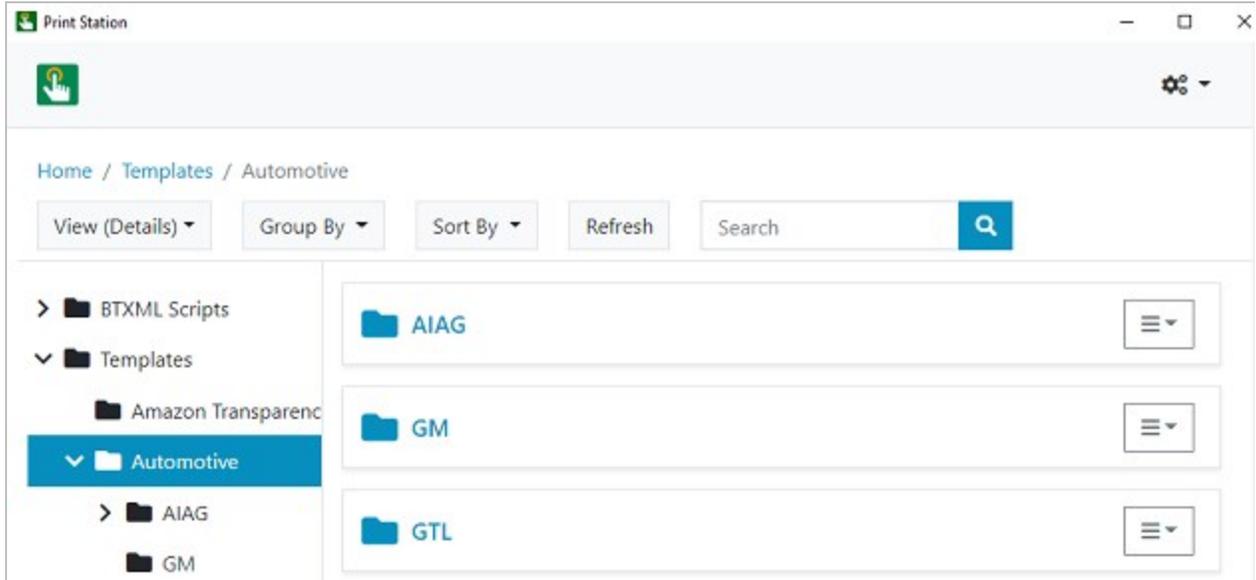
You can also configure a password for the Print Station **Administrative Setup** page when you want to ensure that users cannot modify the Print Station configuration settings. When you do this, users can print items but cannot access the Administrative Setup page unless they supply the password.



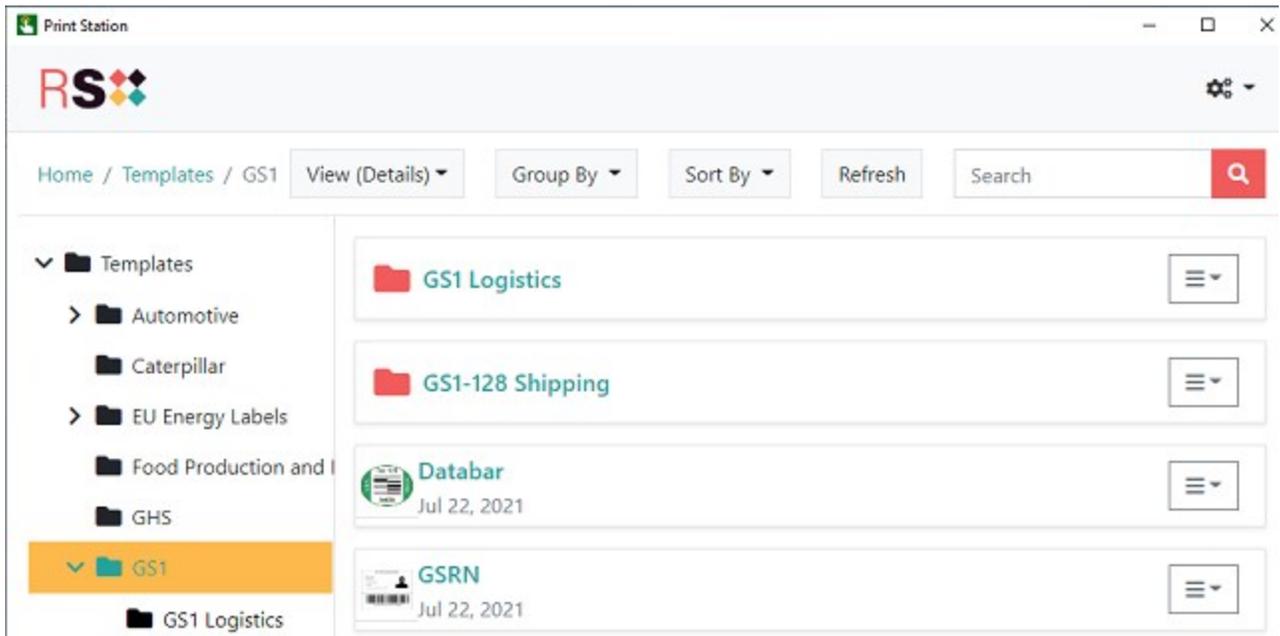
## Custom Corporate Branding

Print Station now supports replacing the default Print Station branding with your company's branding. By using the new **Branding** property page on the Print Station **Administrative Setup** page, you can replace the Print Station icon with your company logo (or other image) and change the colors of items in the user interface to your company's branded colors.

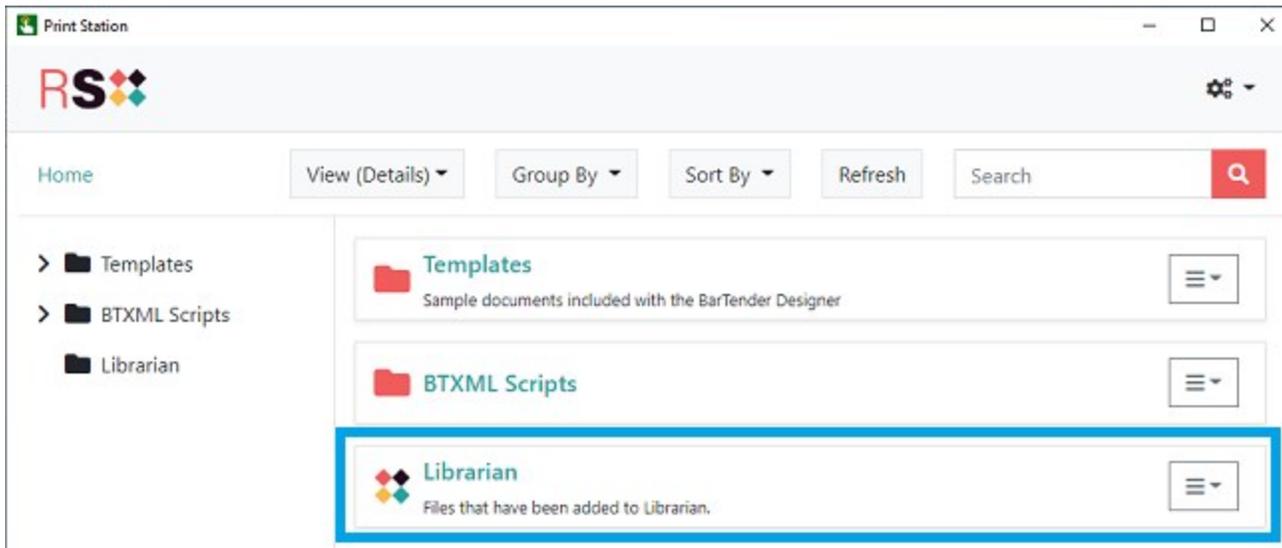
The following image shows the default Print Station branding.



The following image shows an example of custom branding.



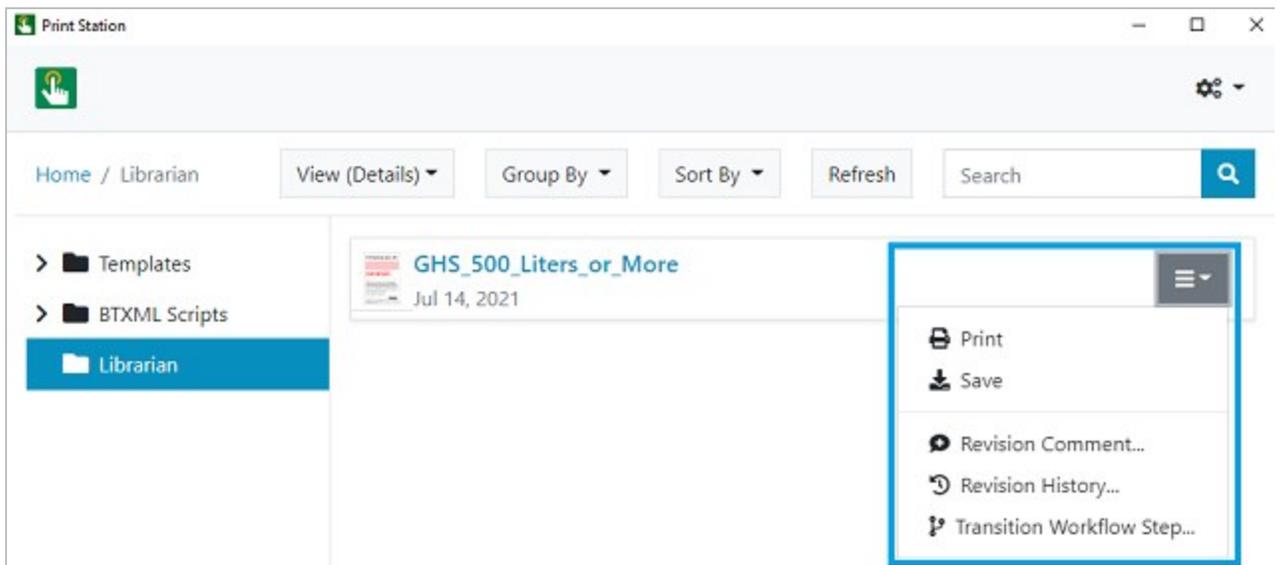
You can also specify a custom image for any root folder, as shown in the following example.



### ***Integration with Librarian (BarTender Enterprise Edition)***

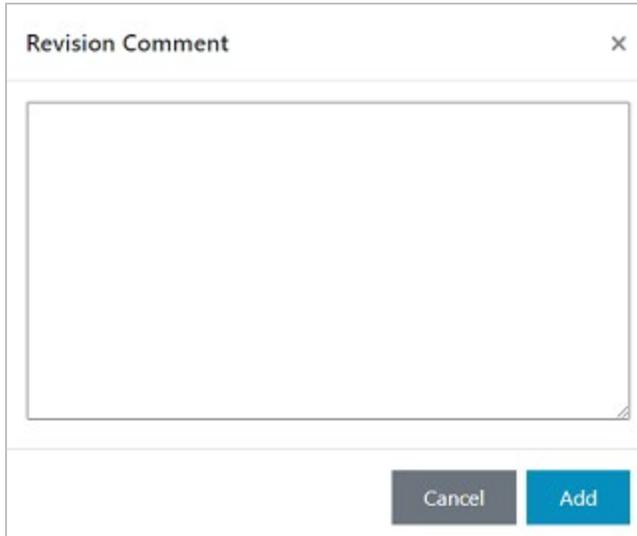
Librarian is the companion application in the BarTender suite that provides a content management system for your BarTender documents in BarTender Enterprise edition. When you use Librarian, you create a secure central repository of documents, including a revision history that tracks all the changes to the document design and all the user comments for each revision. You can also use Librarian workflows to easily manage a document's status from first draft to final published state.

With BarTender Enterprise edition, Librarian information for a document is accessed from the document's menu options in Print Station.

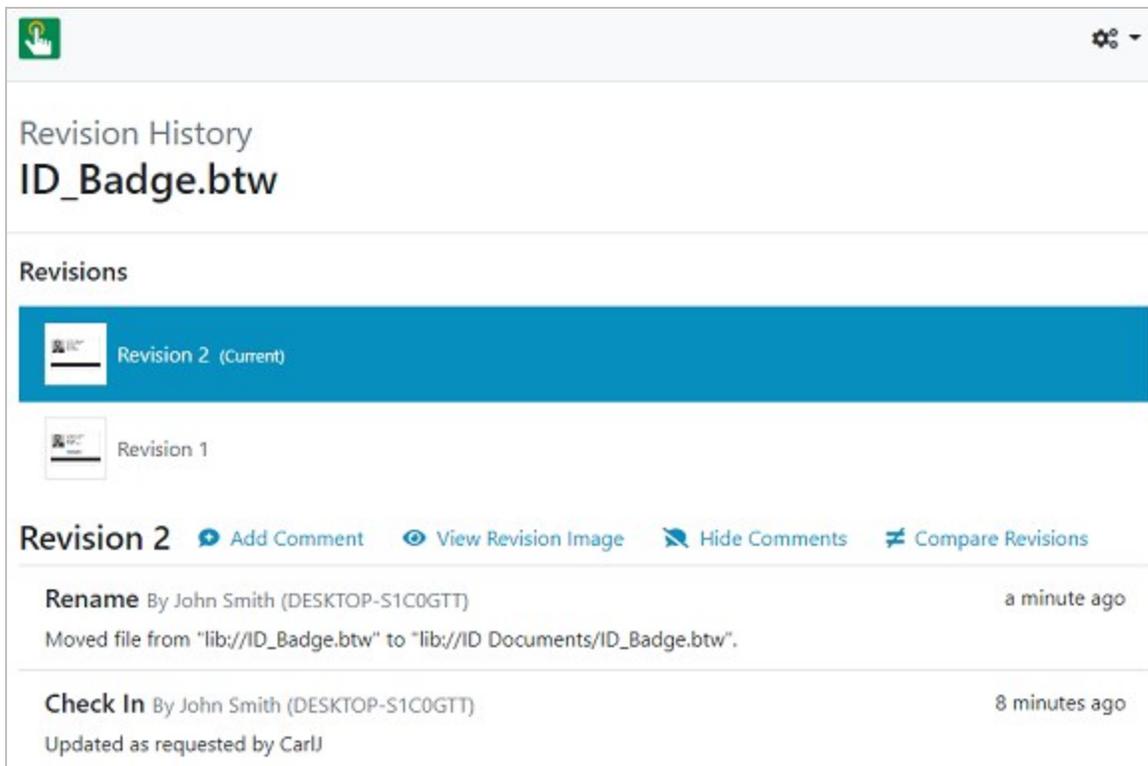


By using the menu options provided, you can add a comment to a selected document revision, view a documents revision history and compare revisions, and transition a document to its next workflow state.

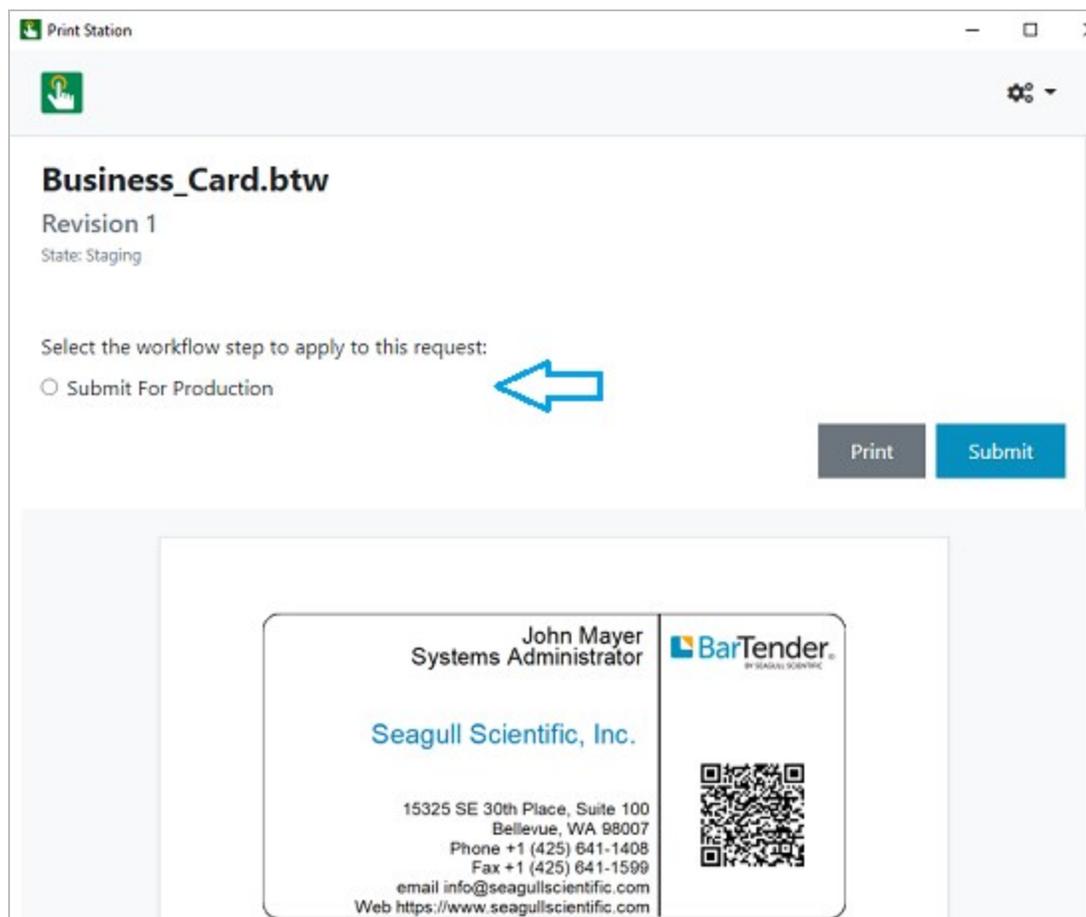
**Revision Comment:** Opens the **Revision Comment** dialog, which you can use to add a comment to the selected document revision.



**Revision History:** Opens the **Revision History** page, which you can use to view and compare different versions of the selected document.



**Transition Workflow Step:** Opens the **Transition Workflow Step** dialog, which you can use (when you have the correct permissions) to transition the document from one workflow state to the next.



Any changes that are made in Print Station (such as adding a comment or changing a workflow state) are automatically updated in Librarian, and vice versa.

### ***Kiosk Support by Using Microsoft Kiosk Mode for Windows 10***

In BarTender 2022, Print Station now supports kiosk mode (in which an application is locked into a dedicated full-screen view) by running Microsoft Kiosk mode for Windows 10.

When you run Microsoft Kiosk mode, the application starts automatically in full-screen view when the kiosk account signs in, and the user is prevented from performing any external operations on the device outside of the kiosk interface.

For more information about Microsoft Kiosk Mode for Windows 10, refer to the following Microsoft web page:

<https://docs.microsoft.com/en-us/windows/configuration/kiosk-single-app>

## Print Portal Updates

BarTender 2022 introduces several new options and features in Print Portal for both users and administrators to customize the interface and printing experience.

### *Available in Bartender Professional and Automation Editions*

Print Portal is now supported in BarTender Professional and Automation editions for web-enabled printing from any browser on any device.

BarTender Enterprise edition is required for the following Print Portal features:

- Librarian integration
- Print Portal Authentication

### *New Security Property Page and Settings*

Security settings that were previously found on the **Advanced** property page are moved to a new **Security** property page. Those existing settings include the following:

- Authentication options
- Administration password options

The new **Security** property page also has new settings available so that you can turn off the following features:

- **Print quantity:** Specifies that the quantity selection in the **Print** page is locked to the quantity that is specified in the BarTender document.
- **Document search:** Specifies that the search bar is removed from the Print Portal user interface.
- **Print preview:** Specifies that the **Preview** button is removed from the **Print** page.
- **Change view options:** Specifies that the **View**, **Group By**, and **Sort By** filtering options are unavailable on the **Home** page.

Root Folders Client Printing Security Advanced Branding

### Authentication

Enable Authentication

Automatically log out after the specified period of inactivity  
Minutes:  
0

### Administration Password

Require a password to open the admin page  
Password

### Features to Disable

Print quantity  
 Document search  
 Print preview  
 Change view options

### ***New Options on the Advanced Property Page***

New options on the **Advanced** property page let you specify whether you want the Print Portal interface to show folders in the document selection pane and to show the folder navigator. You can also specify the behavior that you want to occur when a user clicks a document in the document selection pane.

- **Show folders in browser:** Specifies that Print Portal displays folders in the document selection pane on the Home page.
- **Show folder navigator:** Specifies that Print Portal displays the left navigation pane on the Home page.
- **When a document is selected:** Specifies how Print Portal behaves when a document is selected.



 Help
  Administrative Setup

[Root Folders](#)
[Client Printing](#)
[Security](#)
[Advanced](#)
[Branding](#)

### Print Settings

Automatically return to Document Selection screen after printing has completed.

Maximum Number of Print Preview images to generate per request

100

Save documents after printing

Save if a document contains serialized fields

### Miscellaneous

Show folders in browser

Show folder navigator

When a document is selected:

Show print options

Show print options

Immediately print

### Root Folder Custom Images

Administrators can make it easier to find the root folders that users need by specifying a custom image to use instead of the default folder icon.



 Help
  Administrative Setup

Home

View (Details) Group By Sort By Refresh Search

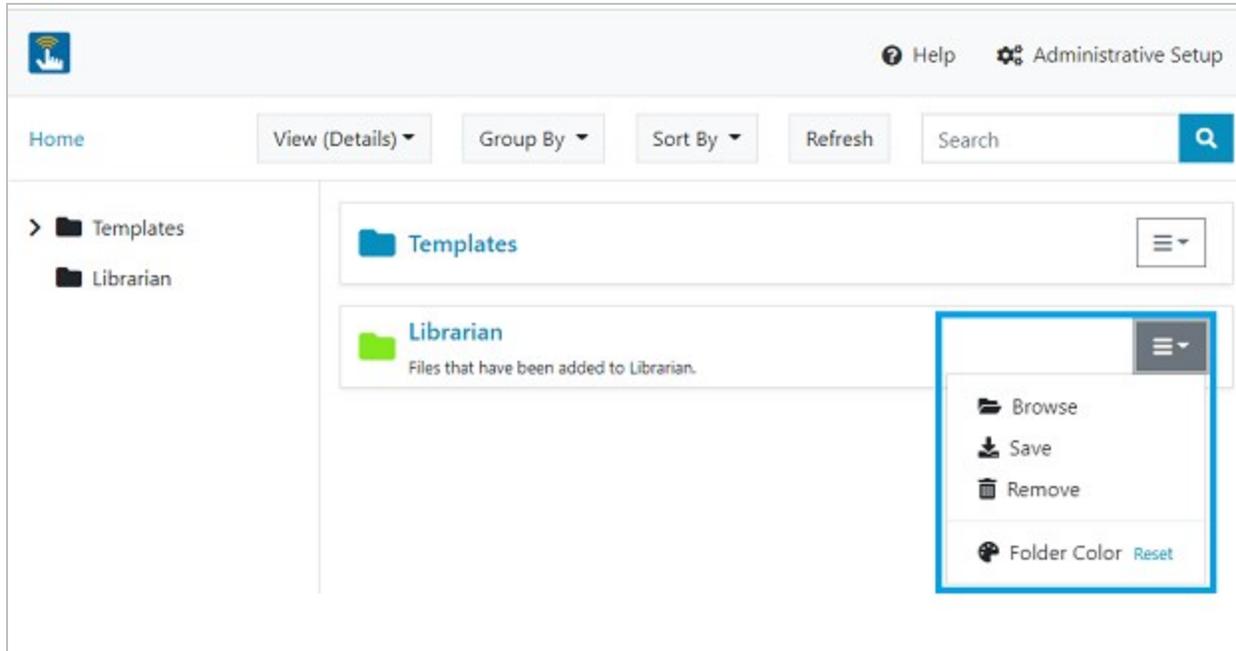
> Templates  
 Librarian

**Templates**  
 Sample documents included with the BarTender Designer

**Librarian**  
 Files that have been added to Librarian.

## User-specified Folder Colors

Users can use the new Folder Color option to specify custom folder colors in the Print Portal document browser pane to personalize their own experience. As with grouping and sorting options, assigning colors to folders can help users more quickly locate the files that they need.



## Database Connectivity

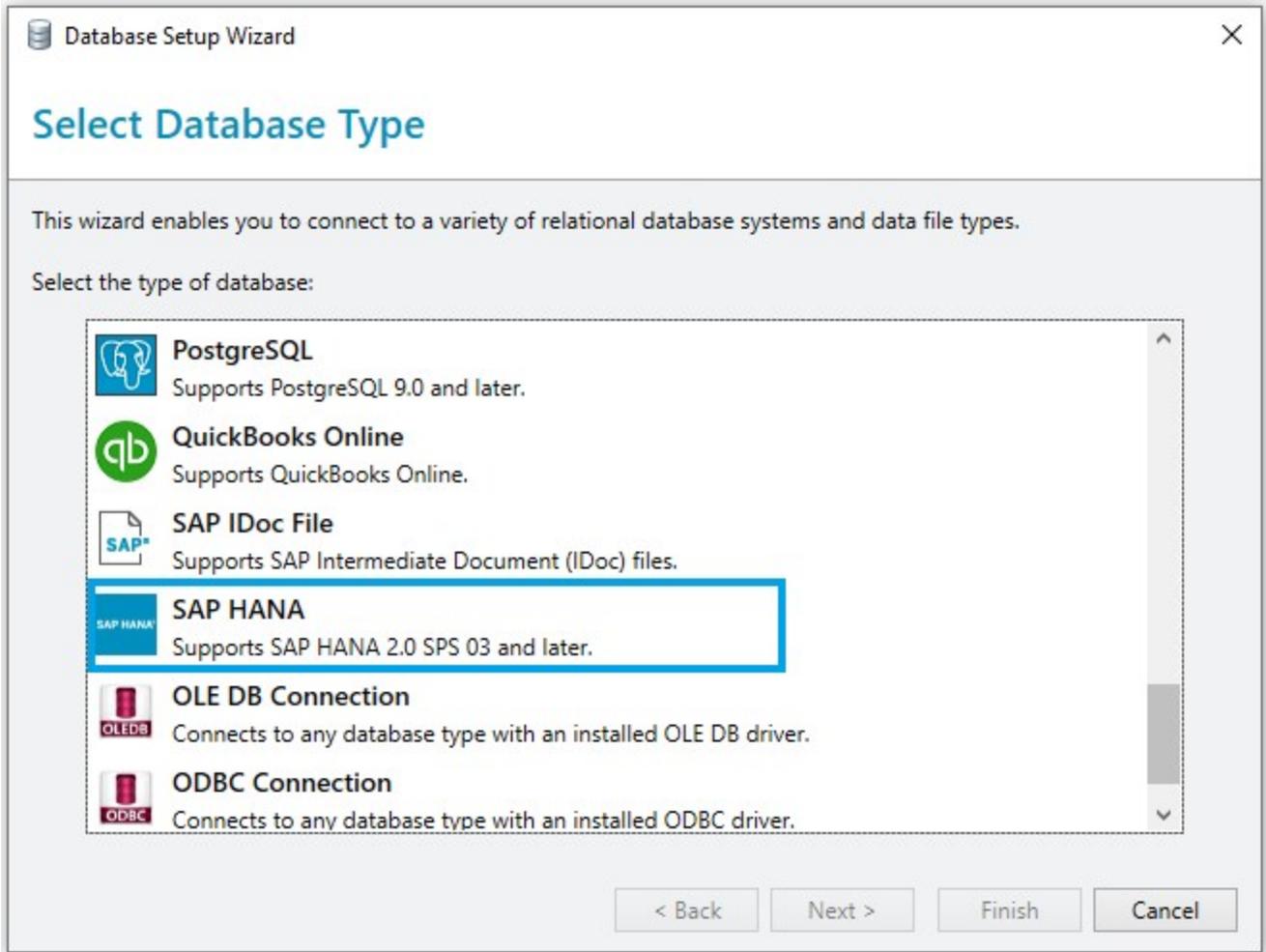
BarTender 2022 introduces support for a new database type and improvements in database connectivity.

### SAP HANA Database Connection

In BarTender 2022, BarTender applications now support database connections to SAP HANA 2.0 SPS 03 and later versions.

SAP HANA is an in-memory, column-oriented, relational database management system. Its primary function is to store and retrieve data as requested by an application. BarTender supports both on-premise and cloud SAP HANA connections.

You can connect to your SAP HANA database by using the Database Setup Wizard.



### **Improved Database Performance**

In BarTender 2022, there is improved performance in Database Setup record browsing with a more responsive interface, as well as improved performance in BarTender Designer responsiveness when retrieving database field names.

In addition, the **Database Setup** dialog's **Filter** page and **Record Browser** page are now improved to open and load the database asynchronously, allowing the user to quickly start creating a database filter while the grid view is being loaded.

### **BarTender REST API**

BarTender 2022 introduces the BarTender REST API for automating your system on a non-Windows platform or across the network. The BarTender REST API provides REST endpoints that you can use to run a variety of actions in YAML or JSON file format or in an existing legacy BTXML script, and it supports many types of programming languages, including C#, JAVA, PERL, or Python.

The actions that are available in the BarTender REST API include many of the same actions that you can run in BarTender Designer, Integration Builder, and Process Builder, but the REST API provides a solution for running these actions programmatically.

The BarTender REST API documentation is available by using ReDoc, a REST API help system that provides an explanation for each function, including examples.

ReDoc provides a three-pane responsive layout that includes the following panes:

- A left pane that contains a search bar and navigation menu
- A central pane that contains the documentation
- A right pane that contains request and response examples

The screenshot displays the ReDoc interface for the REST API endpoint `POST /api/actions`. The interface is divided into three main panes:

- Left Pane:** Contains a search bar and a navigation menu. The selected menu item is "Run Scripts and Query Their Status". Below the menu, there are four items with colored icons: a blue "POST" icon for "Submits a script to run.", a green "GET" icon for "Gets a list of scripts that were submitted to the server.", an orange "PATCH" icon for "Modifies the script's 'KeepMinutes' or 'Command' properties.", and another green "GET" icon for "Gets a script's running status." At the bottom of the left pane, it says "Documentation Powered by ReDoc".
- Central Pane:** The title is "Run Scripts and Query Their Status". Below the title, the sub-header is "Submits a script to run." The main text explains: "The request body can be one or more actions using YAML, JSON or BTXML script. It can also be the path of the script file to run. The 'File' property that specifies the script file path and the 'KeepMinutes' property that specifies how long to keep the script status can both be specified in the request body (by using JSON format) or in the query parameters." Below this text, there are sections for "QUERY PARAMETERS" and "REQUEST BODY SCHEMA".
  - QUERY PARAMETERS:** Lists two parameters: "KeepMinutes" (integer <int32> with example `KeepMinutes=60` and description "Specifies the number of minutes that the script and its status are kept in the server. The default value is 60 minutes.") and "File" (string with example `File=C:\Docs\PrintBTWAction.yaml` and description "Specifies the path of the script file to run. Note that if a value for this query parameter is provided, the script will be retrieved from the path that is specified by the query parameter, and the request body will be ignored.")
  - REQUEST BODY SCHEMA:** Shows a dropdown menu set to "text/xml" and a "string" input field.
- Right Pane:** Contains "Request samples" and "Response samples".
  - Request samples:** Shows a "POST /api/actions" endpoint with a "Payload" section. The content type is "text/xml". A "Copy" button is present. The XML payload is: 

```
<?xml version="1.0" encoding="utf-8" ?>
<XMLScript Version="2.0" ID="123"
  <Command Name="Job1">
    <Print>
      <Format>c:\Docs\sample.btw
    <PrintSetup>
      <Printer>Zebra R110X14 (
    </PrintSetup>
    </Print>
  </Command>
</XMLScript>
```
  - Response samples:** Shows a "201" status code with a "Content type" of "application/json". A "Copy" button and "Expand all" / "Collapse all" options are visible at the bottom.

To access the BarTender REST API documentation, visit the following web page on a computer that has BarTender 2022 Preview 2 installed:

<http://localhost:5159/api/actions/reference/>

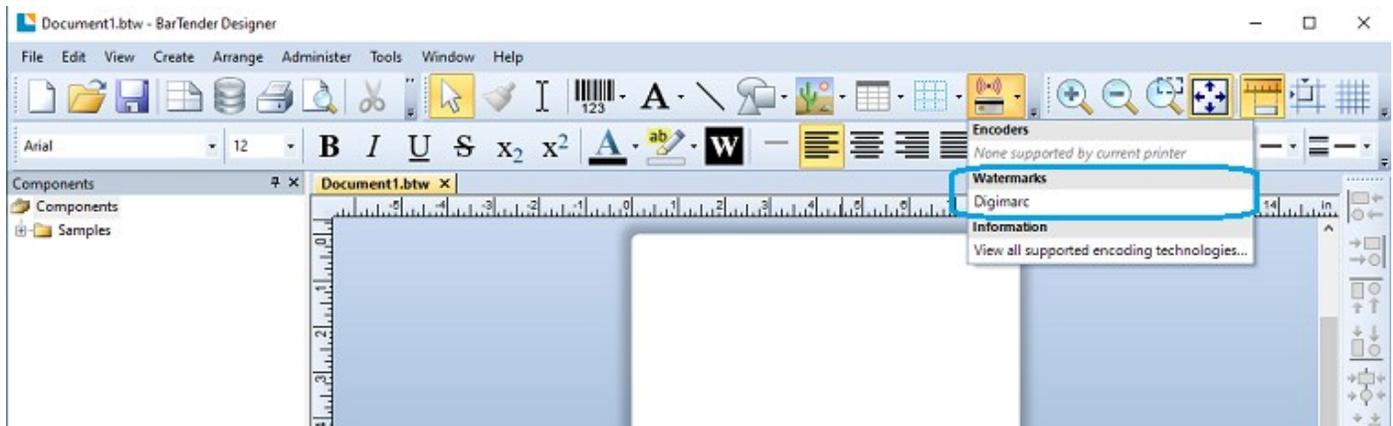
For a list of the actions supported by the BarTender REST API, refer to the help topic **Using BarTender REST API Actions** in the BarTender help that is installed with BarTender 2022 Preview 2. This help topic also provides a link to the *Actions YAML Reference*, which provides the YAML file format for the supported API actions.

## Preview of Digimarc Barcode Support

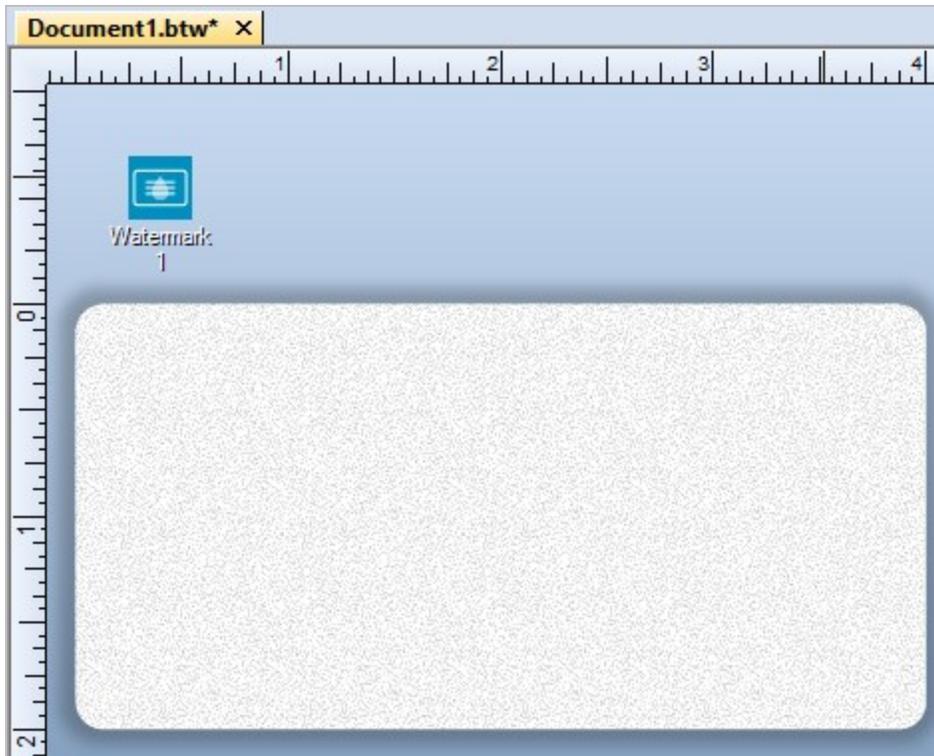
BarTender 2022 Preview 2 introduces demonstration support for the Digimarc Barcode technology.

Digimarc offers a proprietary digital watermark technology that is called "Digimarc Barcode." Digimarc Barcode is a method of encoding data (typically, GS1 data) as a watermark in the form of a pattern of tiny dots or squares. This pattern is printed invisibly onto the background of thermal-printed product packaging or labels, so that the data is unobtrusively repeated over the entire surface of the printed item. The pattern is then read by Digimarc-enabled handheld barcode scanners, in-counter scanners, industrial vision systems and mobile devices.

So that you can use the Digimarc technology, BarTender provides a new watermark object. Use this object to place a watermark version of a barcode symbol onto the background of your template. You can also add a corresponding visible barcode symbol that carries the same data as the watermark.



After you add a Digimarc Barcode watermark to the template, the object is displayed in the design area adjacent to the template, and the watermark dots are displayed on the template.



For Preview 2, Digimarc Barcode is provided for demonstration purposes only. The following sample Embedded Data data sources are available:

- GTIN-14 (00850026654141)
- Fixed GTN-8 for UPC-E (08541402)

## Related Documentation

### Technical Documents

- *Administration Console*
- *Print Station*
- *BarTender 2022 Print Portal*
- *BarTender Librarian*
- *Understanding Librarian Workflows*
- *Using GS1 Application Identifiers*

To view and download technical documents, visit:

<https://www.seagullscientific.com/resources/white-papers/>

### Manuals

- *Getting Started with BarTender*  
<https://support.seagullscientific.com/hc/en-us/categories/200267887>

### BarTender Help System

- [Administration Console](#)
- [Librarian](#)

### Other Resources

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

