



We are pleased to announce the release of Stimulsoft Reports and Dashboards version 2023.1! We have added support for Razor Pages for .NET Core components, updated components for the PHP and Blazor platforms. Also, we added the new Data Monitor visual tool and implemented the ability to reset all filters.

version 2023.1

Razor Pages

In release 2023.1, we added support for **Razor Pages** for **.NET Core components**. Razor Pages allow you to create pages with code handling various requests. This technology makes creating scripts for pages more manageable and more efficient than using an MVC solution. All tools for creating, displaying, and converting reports and analytical panels (dashboards) using this technology are available. This feature is implemented for **Reports.WEB** and **Dashboards.WEB**.



Categories of variables in the viewer

Starting with release 2023.1, we added the functionality to display categories and variables on the options panel in the viewer. Previously, categories could only be used when designing a report to group variables in a data dictionary, and it was impossible to display this ordered structure in the parameters panel. Now you can structure the order of the parameters by categorizing them and enabling the category visibility mode. Setting the visibility of a category and defining its state is carried out in the editor of this category.



Please note that categories can only be displayed in the vertical options bar. On the horizontal one, categories will not be displayed, and all variables will be located, as before, in a simple list.

BILL TO

SHIP TO

Customer ID

Invoice Date

Invoice Number

Reset

Submit

Invoice with Parameters

This sample requests parameters for printing an invoice.

BILL TO

Name

Street Address

Address 2

City, ZIP CODE

SHIP TO

Name

Street Address

Address 2

City, ZIP CODE

Invoice #0

Invoice date 12/2

Customer ID 0

Unit Name	Description	Qty	Item Price
Alice Mutton	20 - 1 kg tins	0.00	\$39.00
Aniseed Syrup	12 - 550 ml bottles	13.00	\$10.00
Boston Crab Meat	24 - 4 oz tins	123.00	\$18.40
Camembert Pierrot	15 - 300 g rounds	19.00	\$34.00
Carnarvon Tigers	16 kg pkg.	42.00	\$62.50
Chai	10 boxes x 20 bags	39.00	\$18.00
Chang	24 - 12 oz bottles	17.00	\$19.00
Chartreuse verte	750 cc per bottle	69.00	\$18.00
Chef Anton's Cajun Seasoning	48 - 6 oz jars	53.00	\$22.00
Chef Anton's Gumbo Mix	36 boxes	0.00	\$21.35

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100%

Updated Blazor components

We have completely updated the Blazor components in **Reports.BLAZOR** and **Dashboards.BLAZOR**. We improved the internal structure of the components - now, all their work is done in asynchronous mode. This made it possible to significantly increase the loading speed and performance of components and add new functionality. In the case of developing an application using WebAssembly technology, the loading speed of all page elements has increased considerably.

In addition, it became possible to change the main options of components, such as localization or theme, at any time after they were created. Also, we improved the ability to display elements in pop-up windows of web applications built on the "One Page App" principle.



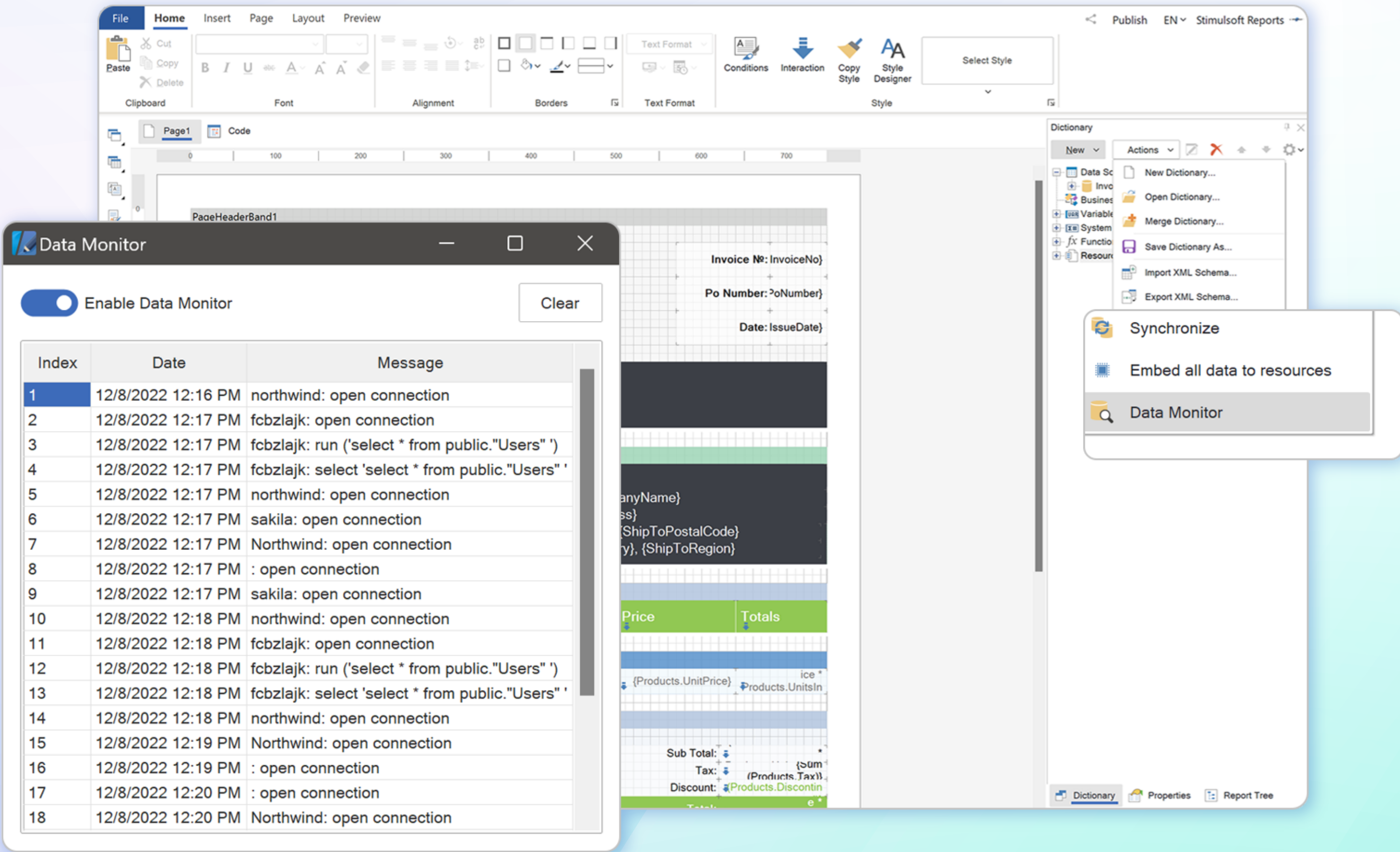
Updated PHP components

We have made significant changes in **Reports.PHP** and **Dashboards.PHP** in this release. We have added support for the **Composer** dependency manager. Now it's pretty easy to install the product in the project - run just one command, and all the scripts and resources of the product will be loaded automatically from the **Packagist** repository. Also, a complete refactoring of the PHP code has been made. You do not need to write JavaScript code for basic features, such as loading, exporting a report, viewing, and editing in a designer. Appropriate classes and enumerations have been added to program these actions using only PHP code. At the same time, for backward compatibility, all actions can be programmed using JavaScript code.



Data Monitor

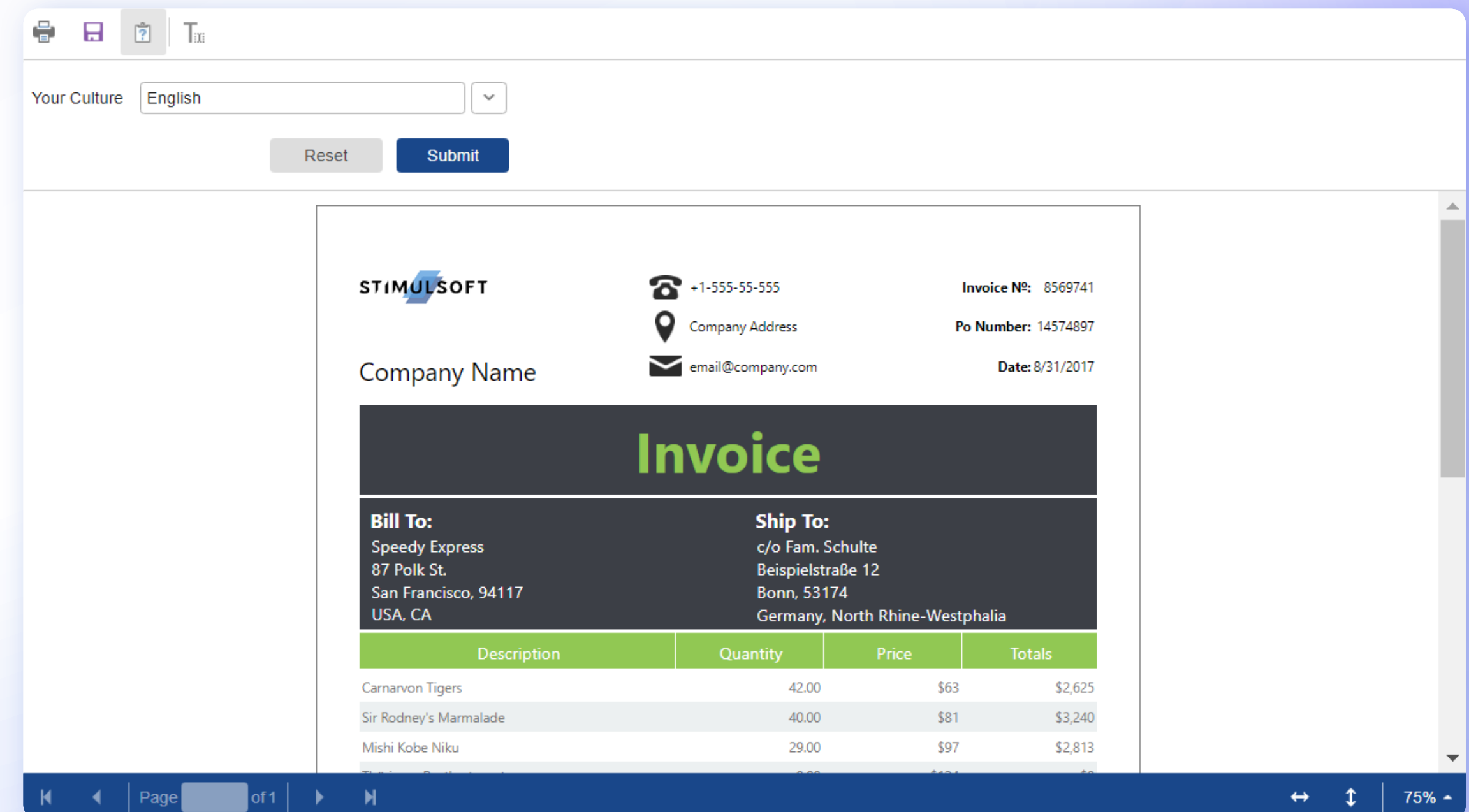
In release 2023.1, for reporting tools based on the .NET platform, we added the ability to monitor report generator SQL queries to various data sources in real-time. This is implemented using a particular *StiDataMonitor* class. In addition, a visual tool, the **Data Monitor**, has been added to the **Stimulsoft Designer** application. To invoke this tool, select the **Data Monitor** command from the **Actions** menu of the data dictionary.



Report culture expressions



We added support for expressions in the report calculation mode as **Interpretation** for the **Culture** property. Thus, it is now possible to define the localization language of a report or dashboard based on the result of the expression calculation. For example, in the **Culture** property, you can use a variable as an expression that contains a list of required cultures and waits for the user to select a value. As a result, after clicking the **Submit** button on the options panel of the viewer, the report will be localized with the selected culture.



The screenshot shows a report viewer interface. At the top, there is a toolbar with icons for print, save, and a dropdown menu. Below the toolbar, there is a section for "Your Culture" with a dropdown menu set to "English" and buttons for "Reset" and "Submit". The main content area displays an invoice report for "STIMULSOFT". The invoice includes contact information (phone, address, email), invoice details (number, date), and a table of items.

Description	Quantity	Price	Totals
Carnarvon Tigers	42.00	\$63	\$2,625
Sir Rodney's Marmalade	40.00	\$81	\$3,240
Mishi Kobe Niku	29.00	\$97	\$2,813

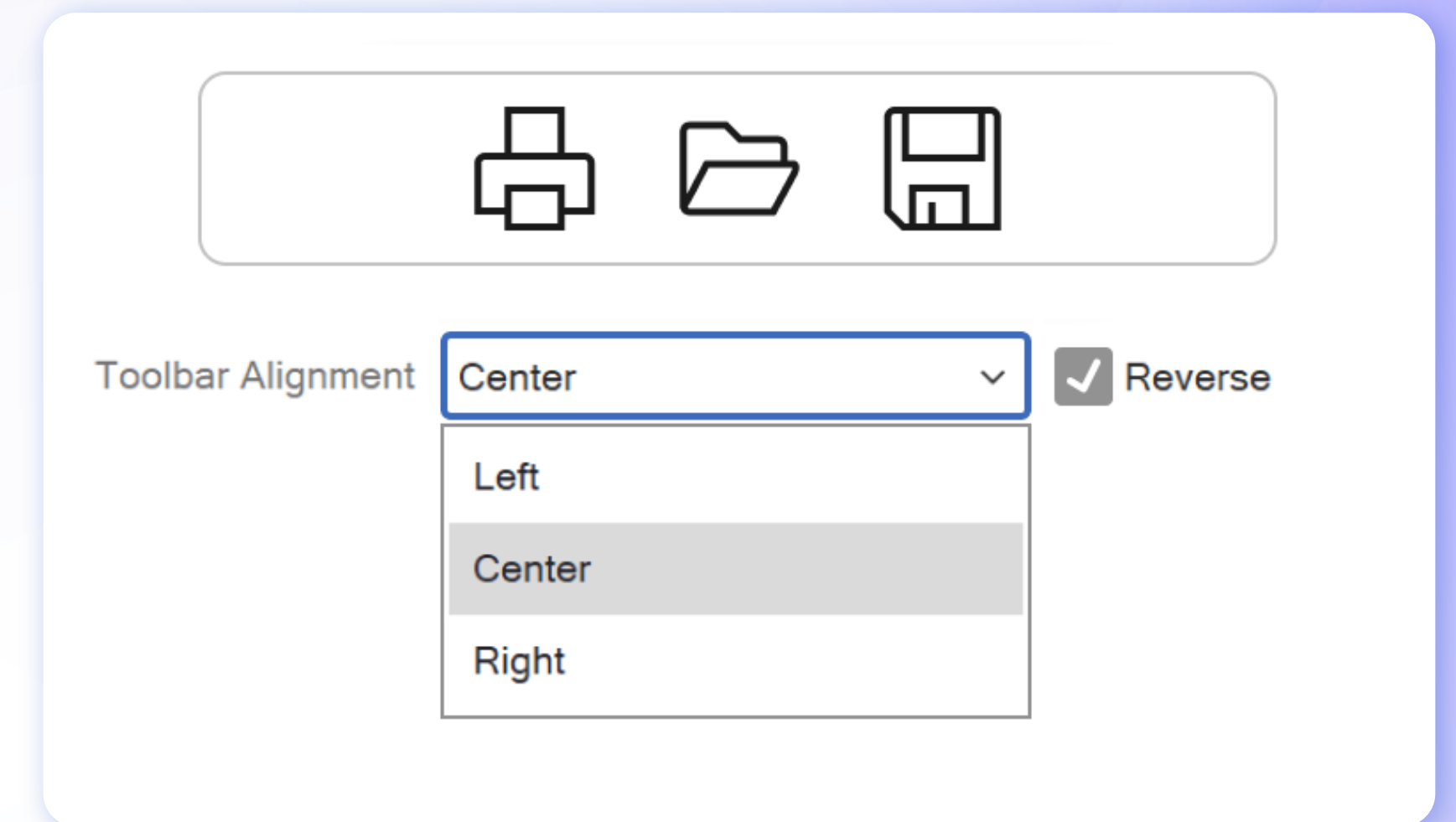
Reset all filters

When viewing dashboards, you can reset all element filters to their default state with one click. For this, a special command **Reset All Filters** is used on the toolbar of the viewer. The visibility of this command on the toolbar is controlled in the **Preview Settings** property of the template. For dashboards created in earlier versions, the visibility of this button is disabled by default.



Viewer toolbar alignment

We added flexibility in setting up the viewer for a specific report template or dashboard. You can now change the horizontal position of the toolbar and define it as left, right, or center. The **Preview Settings** property of the template specifies the location of the toolbar. Also, you can display the commands and controls of the viewer toolbar in reverse order by turning on the reverse mode.



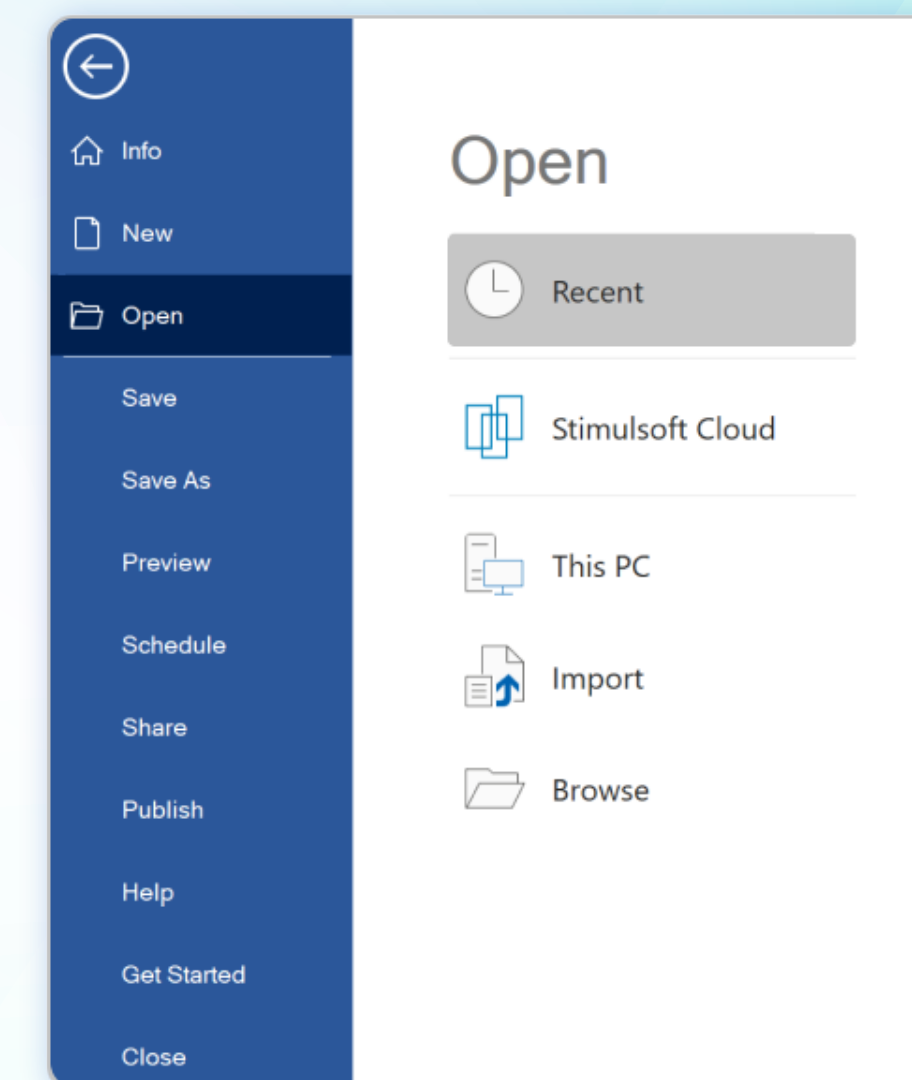
GIF support in dashboards

We added support for animated **GIF** images in dashboards in the new version. You should use the **Image** component to add GIF files to the dashboard. Animated images in this component can be loaded from a file or added via a hyperlink.



The updated main menu of the designer

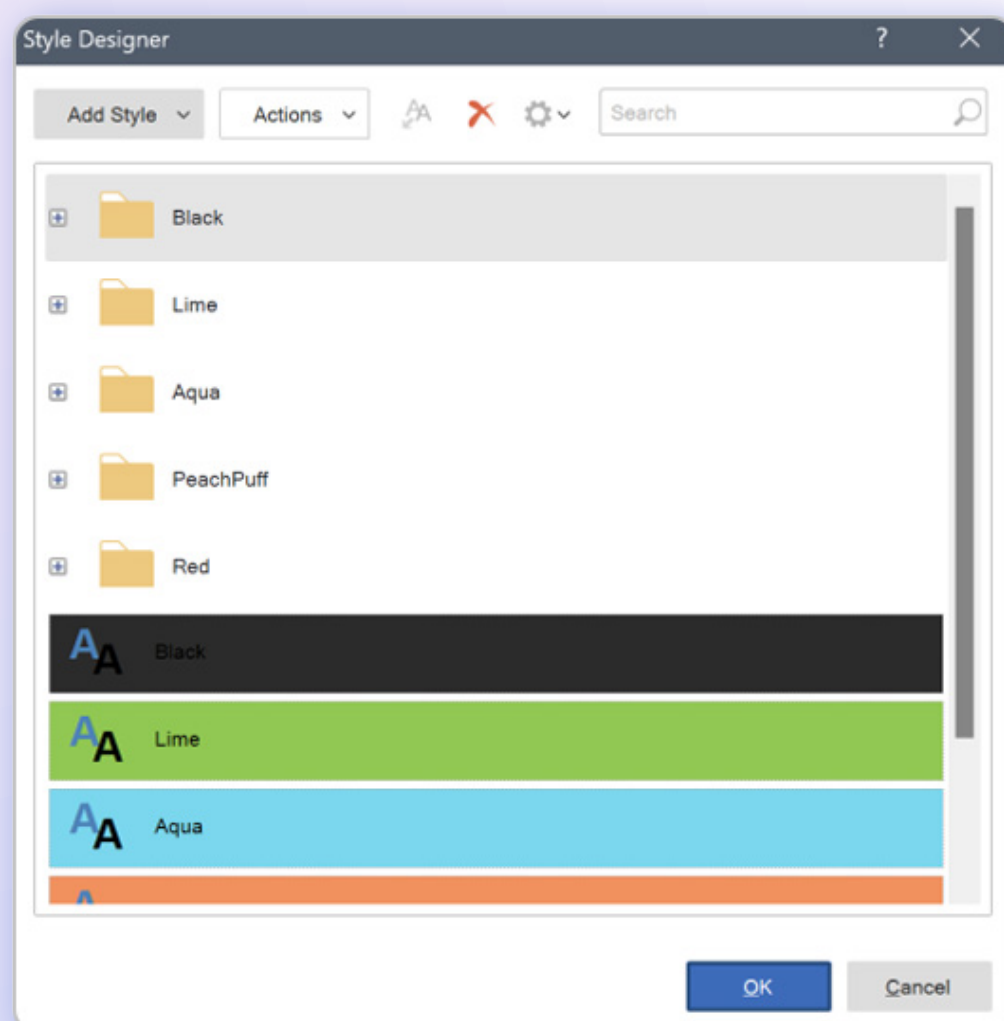
In the report designer, we have completely redesigned the menu used to open and save reports, adapting them to the style of **Microsoft Office**. We have added search capabilities, pinning frequently used reports, specifying local storage, and more.



Updated Style Designer

We optimized and improved tools for reports and dashboards for creating styles. The changes will be displayed in the report template or dashboard when editing the style settings.

However, they will only be saved if you click **OK** in the style designer. In addition, we added the ability to assign a style to a component by dragging this style onto a report or dashboard component.



.NET 7.0 support



Not long ago, Microsoft announced the release of the .NET 7.0 framework. We are glad to announce that Stimulsoft components are compatible with platforms such as ASP.NET Core MVC, ASP.NET Core Razor, WinForms, WPF, and Blazor running the .NET 7.0 framework. With this framework, you can create, modify, and view reports and dashboards by integrating reporting and analytics tools into applications.





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