

Overview

Welcome to the VertiGIS Studio Web Sample Package! This ReadMe outlines the components included in our sample bundle, designed to help organizations create powerful, customized GIS solutions using VertiGIS Studio.

Disclaimer

The sample package, including VertiGIS Studio Web apps, workflows, print templates, and report templates, is provided for reference and example purposes only and is not covered by our standard product support services. While we strive for quality, these resources are not rigorously tested like our core products. If you encounter issues or have questions, we recommend engaging with the VertiGIS Community. For dedicated assistance building custom solutions, please contact your account manager to discuss engaging our Professional Services team, who specialize in delivering tailored solutions to meet your specific requirements.

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Package Contents

- VertiGIS Studio Web
 - 2 VSW apps (Sample & Simple)
- VertiGIS Studio Workflow
 - 10 VSWF workflows
- VertiGIS Studio Printing
 - 2 VSP print templates
- VertiGIS Studio Reporting
 - 4 VSR report templates
- Resources
 - VertiGIS Studio Web Sample Package ReadMe.pdf
 - ReportJsonInputs.json (for the REST API Report sample)
 - Shortcut - [VertiGIS Studio Web Sample App](#)
 - Shortcut - [ArcGIS items](#)

VertiGIS Studio Web Samples

This sample package offers two app configurations to explore:

1. Sample App: Includes layer presets, charts, workflows, reports, and prints for the default web map. Requires additional configuration to migrate resources to your local environment.
2. Simple App: Provides the same layout as the Sample App but excludes layer-specific configurations (workflows, reports, prints, charts). Easier to integrate with your own web map or scene without additional migration steps.

Our [VertiGIS Studio Web Sample App](#) showcases the following capabilities:

- Intuitive interface with tabbed toolbar, I Want to Menu (IWTM), and right-click context menu
- Light and dark theme options
- Integration with workflows, reports, and print templates
- Responsive design with multiple layouts (Default, Mobile)
- Automatic layout switching based on device type

Layer Configuration

An important consideration when becoming familiar with VertiGIS Studio Web is the way we consume an ArcGIS Web Map and extend it via layer configuration.

Here is how each of the layers in our web map are being extended:

- Fire Hydrants
 - Edit and Inspect workflows
 - Custom reporting
 - Data visualization with pie and line charts
- Buildings
 - Building-specific reporting
 - Data visualization with pie and line charts
- Water Lines
 - Data visualization with pie and bar charts
- Neighbourhoods
 - Demographics reporting
 - Data visualization with stacked bar and pie charts

If the VertiGIS Studio Web Designer cannot accomplish what you need, you can configure and extend VertiGIS Studio Web through several different capabilities.

The simplest way to customize your application is through configuration. If you need to implement complex behavior and user interactions, VertiGIS Studio Workflow may be able to accomplish your goals through an easy-to-use interface.

VertiGIS Studio Workflow Samples

Explore our collection of VertiGIS Studio Workflows, designed to showcase various functionalities:

- [Query Features](#): Search water lines using multiple parameters
 - Location in application: Workflow toolbar, I want to menu
- [Search Features](#): Find and report on buildings
 - Location: Workflow toolbar, I want to menu
- [Filter Features](#): Dynamic building height filtering
 - Location: Workflow toolbar
- [Demographics](#): Analyze areas using buffers or drive times
 - Location: Workflow toolbar
- [Directions](#): Generate routes using ArcGIS routing service
 - Location: Workflow toolbar
- [Add Feature](#): Create new map features via form input
 - Location: Workflow toolbar, I want to menu
- [API Request](#): Query USGS Earthquake REST API
 - Location: Workflow toolbar
- [Edit Feature](#): Update existing feature attributes
 - Location: Fire Hydrant Layer Feature Action
- [Inspect Feature](#): Create new inspections for related tables
 - Location: Fire Hydrant Layer Feature Action
- [Swap Layouts](#): Automatically switch layouts for mobile devices
 - Location: Services > Application Initializing Event

Note: These workflows utilize VertiGIS Studio Web-specific commands and operations. They can be easily modified for use with other ArcGIS or Geocortex viewers.

VertiGIS Studio Reporting Samples

The VertiGIS Studio Web Sample App showcases four comprehensive reporting templates, each demonstrating unique capabilities and data integration methods:

1. Fire Hydrants Report

- Data Source: Fire Hydrants layer
 - Key Features:
 - Dynamic map representation
 - Subreport functionality for detailed analysis
 - Attachment support for single hydrant reports
 - Access Point: Fire Hydrants Layer Feature Action

2. Demographics Report

- Data Source: Neighbourhoods layer
 - Key Features:
 - Interactive map picture box
 - Global chart for overall data visualization
 - Individual feature maps and charts for granular analysis
 - Access Points:
 - Neighbourhoods Layer Feature Action
 - Demographics Workflow

3. Buildings Report

- Data Source: Buildings layer
 - Key Features:
 - Comprehensive charts for data visualization
 - Detailed attribute display
 - Feature-specific maps
 - Adaptive display logic based on feature count (≤ 5 or >5)
 - Access Points:
 - Buildings Layer Feature Action
 - Search Workflow

4. REST API Report

- Data Source: USGS REST API (JSON)
 - Key Features:
 - External API data integration
 - Workflow-driven API querying and JSON response parsing
 - Real-time application state incorporation in Map Picture Box
 - Access Point: REST API Workflow

Note: Apart from the REST API Report, which utilizes a JSON data source, all reports in this sample app are powered by the "Capital City" ArcGIS Feature Server. This unified data source ensures consistency across reports while demonstrating the flexibility of VertiGIS Studio Reporting in handling various data types and structures.

VertiGIS Studio Printing Samples

The VertiGIS Studio Web Sample App includes two customizable VertiGIS Studio Printing templates, demonstrating the versatility of the printing functionality:

- 8.5 x 11 Landscape
 - Purpose: Generates high-quality maps in landscape orientation
 - Key Features:
 - Customizable title, subtitle, and map elements
 - Scale bar and north arrow for spatial reference
 - Legend integration for clear map interpretation
 - Access: Available via the Home menu and Tools toolbar
- 8.5 x 11 Portrait
 - Purpose: Produces detailed maps in portrait orientation
 - Key Features:
 - Customizable title, subtitle, and map elements
 - Scale bar and north arrow for spatial reference
 - Legend integration for clear map interpretation
 - Access: Available through the Home menu and Tools toolbar

Note: Both templates are fully customizable using the VertiGIS Studio Print Designer, allowing developers to modify layouts, add dynamic elements, and incorporate organization-specific branding.

How to use these items

Below are details on how you can pull in the included resources in this package into your environment and begin using them.

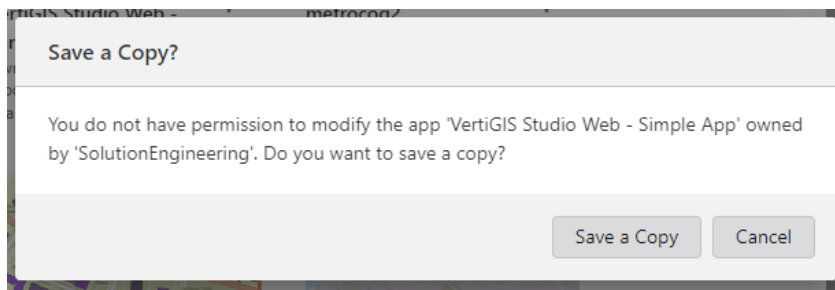
VertiGIS Studio Web

There are two methods to make your own copy of the included VertiGIS Studio Web apps:

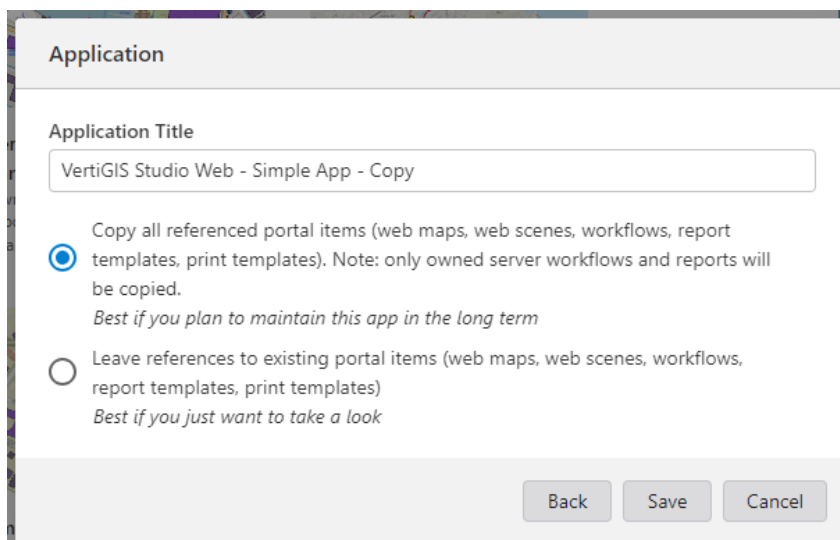
- If you have access to VertiGIS Studio SaaS, you can open the development app in designer and save a copy directly
- If you only have on-premises VertiGIS Studio, you can import the included items.

Save a Copy from SaaS Designer

1. Open the VSW Designer URL for your intended app to copy: [Sample App](#) / [Simple App](#)
2. If not already signed in, authenticate with Designer.
3. You should receive a 'Save a Copy' prompt as below:



4. Click Save A Copy, and at the next screen you will be prompted to either make copies of all referenced items or just the VSW app. Select "Copy all referenced portal items"



5. You now have your own copy of the app! After saving the app, navigate to Deploy and select the context menu to open the Sharing Permissions dialog.
6. The Sharing Permissions dialog displays references to workflows, reports, print templates, etc.

Importing a VertiGIS Studio Web app

The below steps walk you through importing either the VSW Sample App or the VSW Simple App. Note that you must create a new app and use the upload process to replace it, as described below.

1. Login to VSW Designer and select the "Blank" template. Save a new app by using File > Save (or Control + S) and giving your app a name.
2. Navigate to File > Upload App and select the desired app zip file:
 - o For the Sample App, choose VertiGIS Studio Web – Sample App.zip from the "VertiGIS Studio Web" folder in the zip package.
 - o For the Simple App, choose the corresponding zip file.
3. After uploading and saving the app, navigate to Deploy and select the context menu to open the Sharing Permissions dialog.
4. The Sharing Permissions dialog displays references to workflows, reports, print templates, etc.
 - o If using ArcGIS Online (AGOL), these references will point to publicly hosted resources in the VertiGIS Studio AGOL.
 - o If using ArcGIS Enterprise, these references will be invalid and greyed out.

Resource Migration (Sample App Only)

If using the Sample App, follow these steps to migrate workflows, reports, and prints to your local environment:

1. ArcGIS Online (AGOL)
 - o Launch each referenced item in the Sharing Permissions dialog to access the ArcGIS item details.
 - o Copy the item ID for each workflow, report, or print template.
 - o Use the VSW Designer's Pinpoint Search (Ctrl + F) to find all references to the copied item IDs.
 - o Replace each reference with the corresponding ID of your local resource.
 - o Confirm successful migration by verifying that all references in the Sharing Permissions dialog point to your own content.
2. ArcGIS Enterprise
 - o Use the VSW Designer's Pinpoint Search (Ctrl + F) to search for "Workflow", "Reporting", and "Printing" components.

- For each component, navigate to the corresponding control and update the invalid references to point to your local resources.
- Update references for:
 - Reporting: Ensure to search map content.
 - Printing
 - Workflow

By following these steps, you can set up the VertiGIS Studio Web app and migrate resources to your local environment as needed.

VertiGIS Studio Workflow

There are two methods to import VertiGIS Studio Workflow items:

1. If you have access to VertiGIS Studio SaaS, you can use the ArcGIS Online URLs above to open them in VertiGIS Studio Workflow SaaS Designer and duplicate them directly. To get the most up-to-date workflows, the recommended approach is to use the ArcGIS item links listed above and open them in the Workflow Designer (File > Open by URL).
2. Alternatively, import the workflow JSON files into your Workflow Designer to save them to AGOL/Enterprise by opening the "VertiGIS Studio Workflow" folder in zip package.

VertiGIS Studio Printing

There are two methods to import VertiGIS Studio Printing items:

1. Open the "VertiGIS Studio Printing" folder from zip package
2. Import Print JSON files into your Print Designer and save them to AGOL/Enterprise

VertiGIS Studio Reporting

There are two methods to import VertiGIS Studio Printing items:

1. Open the "VertiGIS Studio Printing" folder from zip package
2. Import Print JSON files into your Print Designer and save them to AGOL/Enterprise

Further resources

There are several other enablement resources we'd like to bring your attention to:

- [VertiGIS Studio documentation](#) for our product documentation
- [VertiGIS Studio Developer Center](#) for in-depth developer documentation
- [VertiGIS Studio Meridian Design System](#) for detail on our design approach
- [VertiGIS Community](#) where you can connect with our Support team and other VertiGIS users just like yourself!