

Introduction to VertiGIS Studio Workflow: Part 1

Course Length: 2 days (instructor-led)
5 days (self-paced)

Overview

This two-day training course builds on your knowledge of VertiGIS Studio and teaches you how to create custom functionality with VertiGIS Studio Workflow. You will learn about client and server workflows and how to configure the available built-in activities. Throughout the course you will develop a workflow for displaying an interactive user form that implements multiple types of inputs, JavaScript expressions, values, and decision logic for a feature-rich user experience in a host application. You will use a variety of debugging and testing tools and test your workflow in an app you create with VertiGIS Studio Web.

Audience

Those who are already familiar with VertiGIS Studio and want to learn how to start developing a workflow using VertiGIS Studio Workflow.

Topics Covered

Day 1

- VertiGIS Studio – An overview of VertiGIS Studio and the benefits of the VertiGIS Studio capabilities.
- VertiGIS Studio Workflow – Discuss what VertiGIS Studio Workflow is, how to use it, and some of its key features. Learn about setting the run-time environment to enable a workflow to execute in specific client host applications. Understand the differences between server workflows and client workflows. Detail the connection between ArcGIS Online/Portal for ArcGIS and VertiGIS Studio Workflow. Get acquainted with the VertiGIS Studio Workflow Designer interface and Navigator panel. Discover activities and the documentation center for help when building workflows.
- Create a Workflow – Identify the steps to create a workflow. Describe workflow design considerations. Create a simple workflow and configure activities. Highlight tips for documenting your workflow and best practices for development. Discuss options for implementing both server and client operations by calling one workflow from another. Learn about tools for testing and debugging a workflow. Discover the Validation panel and Sandbox testing environment. Use the browser console, Log activity, and debugging mode to examine activity outputs. Discuss supported browsers and host applications. Run a workflow from a VertiGIS Studio Web app.
- Show an ArcGIS FeatureSet – Describe the FeatureSet object and examine the JSON. Discover activities to access ArcGIS Online data or layers in a web map. Learn how to manipulate the display of results and change the view of the map in the client application. Discuss advantages of creating custom functions and how to call them within a workflow.

Day 2

- Reference Display Form Elements – Describe the features of the Display Form activity. Add formatted text and images to a user form. Discuss how to translate text on a user form to other languages. See how to access values entered by the user in a form. Learn to construct JavaScript string expressions using concatenation and template literals.
- Build an Input Form – Configure a Display Form with an Auto Complete form element using a subworkflow to populate the list of suggestions. Learn how to configure a List Box using hard-coded options or an ArcGIS query in a subworkflow. Create custom variables and add items to a custom array. Use a conditional activity to create branches in your workflow. Compartmentalize your workflow with Container activities. Loop through selected values in a List Box. Discuss form submission and how to cancel a workflow.
- Use Form Events – Learn about form element events and how they affect the user experience when using an input form. Add a Button Bar form element and respond to a mouse click. Discuss how to emulate selecting features in an app by creating symbols and adding graphics to the map. Implement a subworkflow for a click event and a change event in a form. Add validation subworkflows on form elements to check user inputs and show custom error messages.

Format

This course is available as an in-person or remote instructor-led course, or as a self-paced course, with hands-on practice and course materials you can keep.

Prerequisites and Recommendations

- Familiarity with creating and sharing content in AGOL or Portal for ArcGIS.
- Knowledge of building apps in VertiGIS Studio Web
- A fundamental knowledge of JavaScript programming concepts is useful.
- We recommend using two monitors for an ideal learning experience.