On-demand spatial analysis

When change happens, you do not have time to wait. You need to provide on-demand spatial analysis. With the most interoperable geoprocessing services in the industry, **Octave Alto Data Management** (formerly ERDAS APOLLO) provides an end-to-end workflow to execute geoprocesses with or without domain knowledge.

You can run an entire spatial model (such as change detection) within a web browser without knowing anything about image processing or remote sensing.

This easy-to-use workflow enables spatial modeling experts to publish models from Octave Imagine (formerly ERDAS IMAGINE) or Octave GeoMedia (formerly GeoMedia) for other end users to benefit. Leverage your institutional knowledge and improve efficiency by creating a self-service facility to create on-demand, user-generated products.

Top five reasons to use Alto Data Management geoprocessing

Get the information you need instantly

Previously, you had to submit requests to your remote sensing contact and wait for the information you needed to be located, processed, analyzed and delivered. Now, using your web browser, you can get the information you need, whenever you need it.

Broadcast your organizational spatial model expertise

Spatial models created in Imagine and GeoMedia can be published to the new Alto Data Management Geoprocessing Server and then delivered to anyone, anywhere. Use the Alto Data Management catalog to find data and then execute the process through the Catalog Explorer client to receive the answer on demand.

Simple user interface

Forget about onboarding users to understand complex desktop power-user applications.

Catalog Explorer now supports the OGC API - Processes specification provided by the geoprocessing service to offer a connect, view, execute workflow.

Each model is self describing, using powerful JSON Schemas to build user interfaces, complete with input guides to help users understand how to execute the workflow.

Unrivaled geoprocessing deployment options

Built on the Spatial Modeler engine foundation, the Geoprocessing Server is one of the most advanced and powerful analysis engines in the industry. Use all the power of Imagine and GeoMedia internals, in a server environment, to make better use of centralized hardware, as well as scale to meet performance demands.

The new Geoprocessing Server has enhanced deployment options to deploy outside of Alto Data Management, giving the ultimate flexibility to deploy close to the data and scale independently.

Not only have the deployment options improved, we also are starting to expose the ability for a single model execution to be split into component parts to scale independently across multiple worker engines, across multiple machines.

Fully interoperable geoprocessing and data

Alto Data Management Geoprocessing Server is an OGC-based solution using the OGC API - Processes interfaces. As more clients come onto the market, rest assured your geoprocessing service is built for the future.

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.