

INTELLIEARTH™ INTEGRATOR-G

Modernizes geospatial data and processing architectures for adopting AI/ML solutions

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Today's data processing architectures and infrastructures aren't flexible enough or designed to simultaneously support the transition of AI/ML from research and development, to integration and test, and finally to production. Performance

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IntelliEarth Integrator-G is storage technology independent and can support data stored within a local network share and/or data stored in the cloud. It is built to prevent multiple copies of the same data sets and can use data files at rest from within their source location. The pedigree of data used within a workflow is maintained throughout the entire process to help facilitate a better understanding of the generated outputs. The data catalog can support raw, processed and detection data (e.g. target observables). Synthetic data generation plug-ins accelerate AI/ML model development for hard-to-find targets in EO, MSI, IR and SAR data. Additionally, the system comes with the Distributed, All-source, Geospatial-analytics Resource (DAGR), which provides a web-based application for search, discovery, retrieval and lightweight exploitation of geospatial and vector data.

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Algorithm governance leverages IntelliEarth Integrator-G's content and workflow management capabilities to enable life-cycle tracking of machine learning analytics from development to operations. Algorithm upload utilities streamline the algorithm registration process to provide analyst access to algorithms more rapidly. The development history of an algorithm is captured throughout its life cycle, which provides information to users on the verification and validation activities performed.