

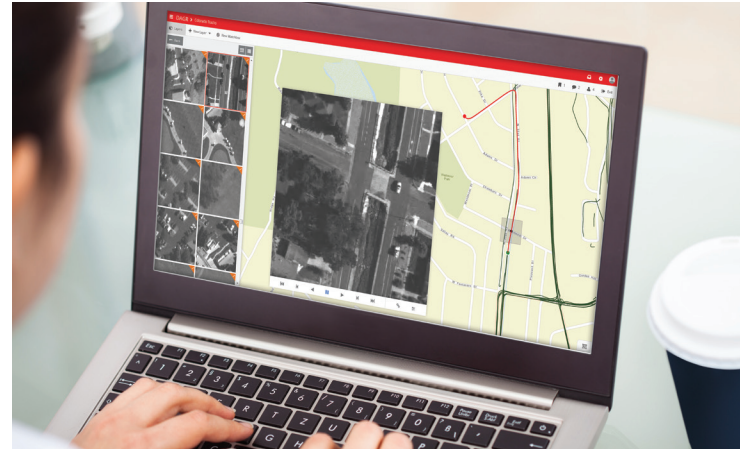
DISTRIBUTED, ALL-SOURCE GEOSPATIAL ANALYTICS RESOURCE FOR HYDRA



The Distributed, All-source, Geospatial Analytics Resource (DAGR) is a browser-based application that uses the Hydra enterprise network architecture to provide U.S. government agencies with multi-source, geospatial intelligence (GEOINT) faster. DAGR modernizes the analyst workforce with automated multi-intelligence (multi-INT) workflows and workspace collaboration to solve complex intelligence questions.

With DAGR, the Hydra user searches, discovers, collaborates, and invokes processing algorithms through a single, cohesive application experience. Most tasks can be accomplished in a single workspace. DAGR's map-based search and visualization capability provides geospatial context for all multi-INT data objects and enables users to save and retrieve their searches.

DAGR also allows users to personalize their Hydra experience by creating customized dashboards—easily accessible from anywhere in the enterprise system—that display actionable information about products, workflows, algorithms, reports, and more. Desired analytic capabilities are exposed via recommended processing services.



DAGR for Hydra runs within a Redhat/CentOS Lynx operating system (6.x/7.x) and can be deployed to a variety of infrastructure environments, including cloud (Amazon Web Service), virtualized, and bare metal.

FEATURES	HYDRA	DAGR
Geospatial context for all multi-INT data objects		Standard
Ability to orchestrate multiple third-party enterprise systems (e.g., UNICORN, JEMA)		Planned
Automated multi-INT workflow and workspace collaboration configuration		Planned
Support for data tagging, blogging, and collaboration	Standard	Enhanced
Single cohesive app experience to search, visualize products, use data layers, collaborate, and invoke analytic capabilities		Standard
Private, personalized and enterprise dashboards		Standard
Federated search and discovery capability	Standard	Enhanced
User interface for product search and discovery	Standard	
User interface for algorithm search and discovery	Standard	
OGC (WFS) interfaces to support search and discovery	Standard	
Dynamic addition of standards-based data layers (WFS, WMS) to maps		Standard
Exportation of wide-area motion imagery tracks as Shapefile (SHP) and KML formatted files		Standard
Ability to provide notifications based on system activity	Standard	Enhanced
Ability to rapidly insert/publish analytics	Standard	
Algorithm governance and tracking	Standard	
Algorithm recommendation services (image-based)	Standard	Enhanced
Map-based recommendation of analytic capabilities (algorithms)		Standard
Ability to send products to external systems/services	Standard	Enhanced
Ability to invoke algorithms on products	Standard	Enhanced
Support algorithm invocation based on metadata interrogation (beyond file type)	Standard	Enhanced
Support for cataloging observables or algorithm detections	Standard	
Support for multiple algorithm containers (ESE, SOAP, Docker)	Standard	
Support for distributed processing (hosting algorithms on a remote server/cluster with a shared file system)	Standard	
File-based ingest	Standard	
PKI/GeoAxis enabled	Standard	Enhanced
Role and permissions based visibility	Standard	Enhanced

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BENEFITS

- Is flexible and scalable for new or expanded missions and for multi-INT data integration and fusion
- Is available as a government off-the-shelf architecture solution
- Is reusable for a wide variety of missions and use cases
- Easily integrates analytical applications to relevant data sources, allowing processing, exploitation, and dissemination systems to constantly evolve by rapidly adapting new technologies based on the threat and need
- Is composed of highly configurable and reusable system components that provide the best-value choice for mission solutions requiring highly automated processing
- Includes well-documented REST interfaces for third-party integration

Hydra is a scalable framework that supports persistent monitoring, rapid analytics integration, automated data discovery and processing workflows, analytics governance, independent verification and validation, and transition.

About Harris Corporation

Harris Corporation is a leading technology innovator, solving customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers in more than 100 countries and has approximately \$6 billion in annual revenue. The company is organized into three business segments: Communication Systems, Space and Intelligence Systems and Electronic Systems. Learn more at harris.com.

ABOUT HYDRA

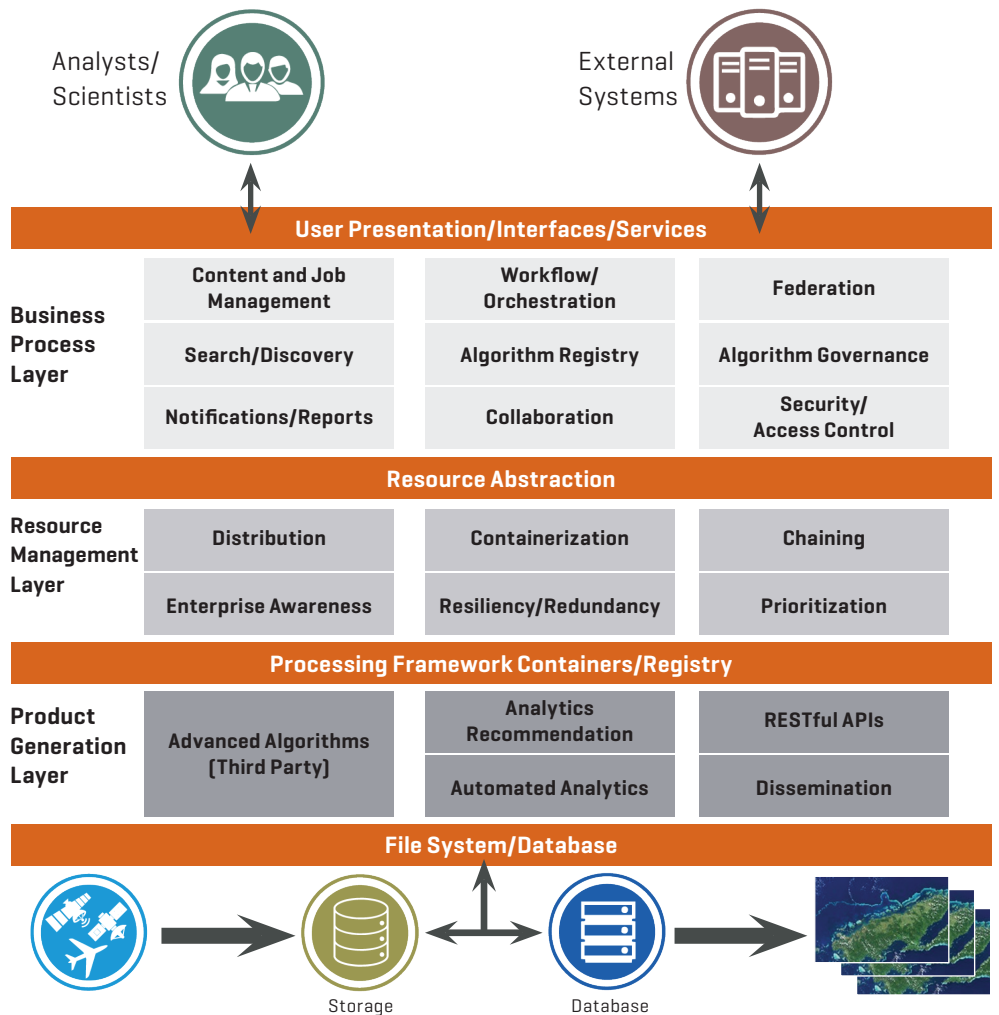
Harris designed, developed, and—since 2007—has updated and operationally delivered the Hydra software framework to address the U.S. government's GEOINT content and workflow management needs.

With a service-oriented architecture built to open standards, Hydra is reusable and facilitates a wide variety of missions and use cases. It is scalable for adjacent mission focus areas and for multi-INT data integration and fusion. It can leverage a variety of virtualized environments, such as Amazon GovCloud or static virtual machines, to support collaboration across an enterprise. And because it is sensor neutral, Hydra can easily adapt to future data types and mission objectives.

Designed for workflow automation, Hydra provides "smart," rule-based ingest and cataloging capabilities along with automatic data discovery, algorithm processing, and dissemination services.

In addition, Hydra creates an ecosystem for innovation. Its built-in utilities support algorithm development and maturation, perform verification and validation, and efficiently transition algorithms into operations. Developers can integrate Hydra with additional tools and services to extend mission utility and advance with emerging customer use cases.

HYDRA ARCHITECTURE



FLORIDA | NEW YORK | VIRGINIA | BRAZIL | UNITED KINGDOM | UAE | SINGAPORE

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