



L3HARRIS™
FAST. FORWARD.

DISTRIBUTED, ALL-SOURCE GEOSPATIAL ANALYTICS RESOURCE FOR HYDRA

Browser-based application provides multi-source geospatial intelligence faster using Hydra software architecture

L3Harris' distributed, all-source geospatial analytics resource (DAGR) modernizes the analyst workforce with automated multi-intelligence (multi-INT) workflows and workspace collaboration to solve complex intelligence questions.

FEATURES	HYDRA	DAGR
Geospatial context for all multi-INT data objects		Standard
Machine-learning mode for labeled data creation and adjudication of detections		Standard
Single cohesive app experience to search, visualize products, use data layers, collaborate and invoke analytic capabilities		Standard
Private, personalized and enterprise dashboards that support data tagging, blogging and collaboration	Standard	Enhanced
Federated search and discovery capability	Standard	Enhanced
OGC (WFS) interfaces to support search and discovery	Standard	Enhanced
Algorithm governance and tracking	Standard	
Algorithm recommendation services (image-based)	Standard	Enhanced
Ability to send products to external systems/services	Standard	Enhanced
Support algorithm invocation based on metadata interrogation (beyond file type)	Standard	Enhanced
Support for multiple algorithm containers (Docker, GSF and DeepCore)	Standard	
Support for distributed processing (hosting algorithms on a remote server/cluster with a shared file system)	Standard	
PKI/GeoAxis enabled with role and permissions-based visibility	Standard	Enhanced

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.

ABOUT HYDRA

L3Harris designed, developed, and — since 2007 — has updated and operationally delivered the Hydra software framework to address the U.S. government's full-spectrum 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. Because it is sensor neutral, Hydra can easily adapt to future data types and mission objectives.



BENEFITS

- > Flexible and scalable architecture enables new or expanded missions and multi-INT data integration and fusion
- > Government off-the-shelf architecture solution is currently available
- > 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
- > Highly configurable and reusable system components provide the best-value choice for mission solutions requiring highly automated processing
- > Well-documented REST interfaces are included for third-party integration

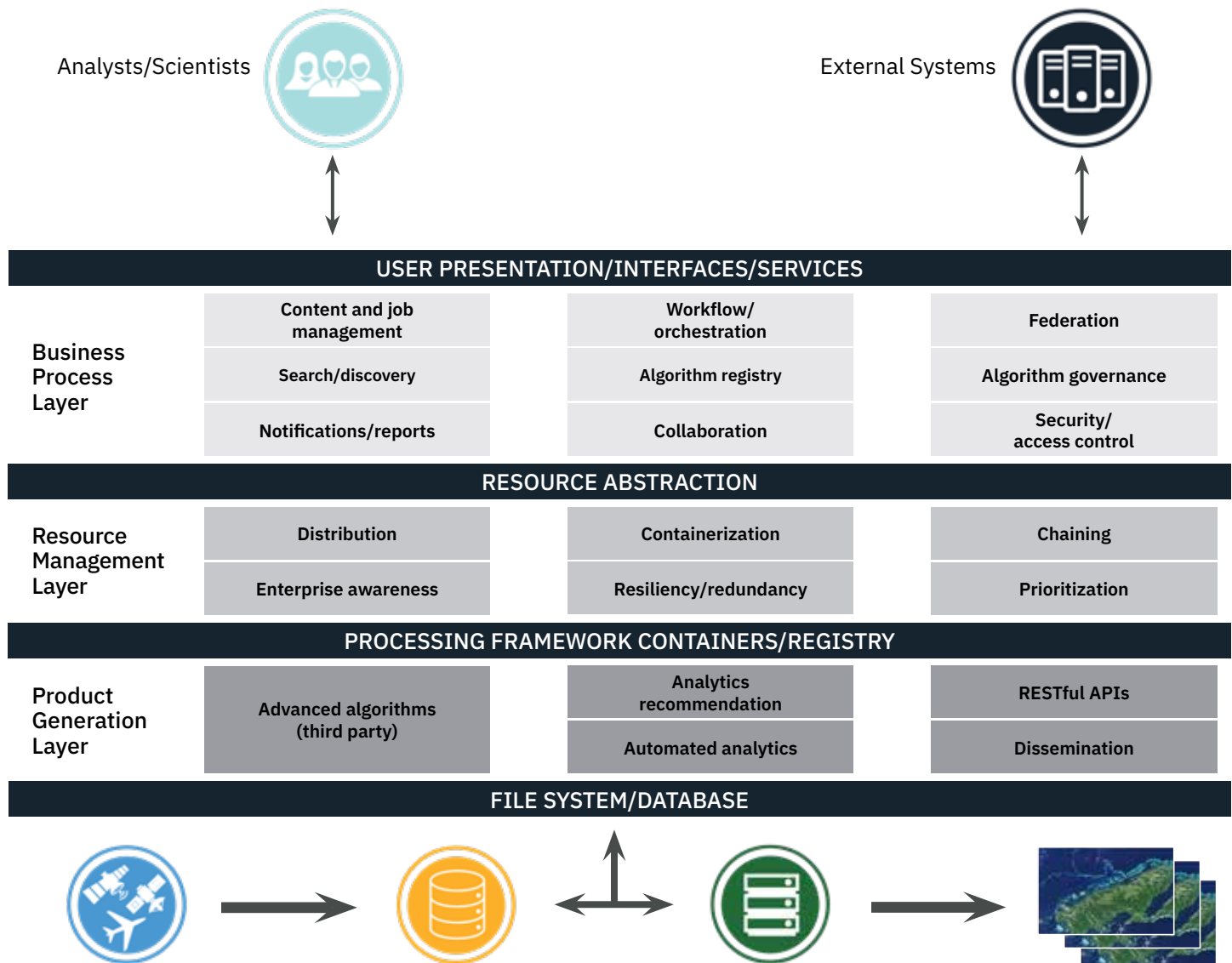
L3Harris.com

FLEXIBLE FRAMEWORK

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. 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.

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

HYDRA ARCHITECTURE



Distributed, All-Source Geospatial Analytics Resource for Hydra

© 2021 L3Harris Technologies, Inc. | 07/2021 | 61217 | EL

Nonexport-controlled Information

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



L3HARRIS™
FAST. FORWARD.

1025 W. NASA Boulevard
Melbourne, FL 32919