CubeWerx Stratos Geospatial Platform for Defence and Intelligence

A Standards-First Approach to Spatial Data Infrastructure and Geospatial Web Services

Enterprise Platform – Open APIs

CubeWerx Stratos stands as the platform of choice for defense and intelligence sectors facing mission-critical demands for swift, secure, and efficient deployment of geospatial data
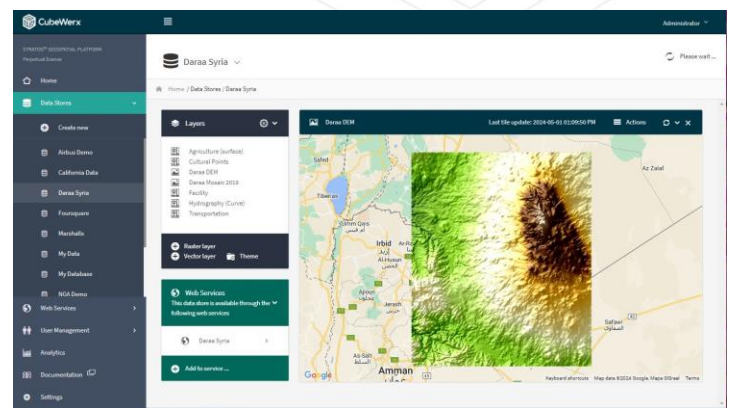
This robust platform facilitates the streamlined processing and distribution of geospatial imagery and other datasets via open web services. Capable of managing vast data collections, Stratos simplifies the publication of data through standard APIs set forth by the Open Geospatial Consortium (OGC) and the Defense Geospatial Intelligence Working Group (DGIWG). This seamless integration supports mobile, web, and desktop applications and includes advanced management features for user accounts, roles, API keys, and quotas, thereby ensuring fortified data access. Stratos also offers pixel-level usage tracking and analytics, providing critical insights into data utilization.

Who we are

The CubeWerx team has been at the forefront of open data management and interoperability for over 25 years, leading initiatives and participating in over 30 OGC test beds. Our experts serve on the editorial boards of major standards organizations and have provided strategic guidance on spatial data infrastructure to various global institutions including Natural Resources Canada, the Open Geospatial Consortium, the European Space Agency, and ISO.

Creators of the initial Oracle Spatial extensions and pioneers of the first commercial interoperable web services products, our team has significantly contributed to the standards that define modern web mapping today.

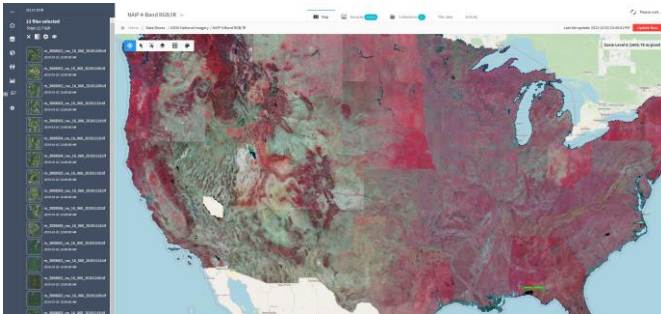## Key Features for GEOINT

Interoperability

Regarded as the benchmark for performance, compliance, and interoperability within the industry, CubeWerx ensures compatibility across all allied systems by supporting all existing OGC specifications, including the latest OGCAPI and defense-specific profiles. Our platform features automated version negotiation to facilitate seamless connectivity between diverse applications, supports on-the-fly reprojection to any coordinate system, and enables exportation to DGIWG-compliant geopackages.

In addition, Stratos enhances operational flexibility by enabling interoperability with existing and legacy systems, reducing integration times and operational downtime. This capability ensures that transitioning to newer technologies and standards is smooth and non-disruptive, maintaining continuous operational readiness.

CubeWerx

Data Currency

In the realm of defense and intelligence, timely data is crucial. Stratos excels in rapidly deploying new data directly from network-attached or cloud storages into web services, dramatically enhancing responsiveness to strategic demands and reducing operational backlogs for a decisive tactical edge.

Connectivity

Designed to excel in complex, distributed settings, Stratos seamlessly integrates various data nodes into a cohesive operational framework, supporting both OGC-compliant and ESRI REST servers.

Includes a full offline mode, complete with integrated basemaps for operation in air-gapped networks and standalone edge devices.

This capability ensures that disparate data sources are unified into a comprehensive operational picture swiftly and efficiently.
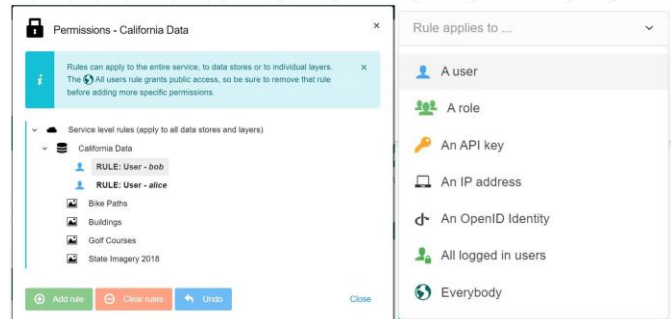
Ease of use

Stratos is designed for immediate deployment and ease of use, eliminating the need for specialized training. This accessibility reduces operational bottlenecks and empowers users to quickly become proficient with the platform.

Security

Implementing a zero-trust security model, Stratos mandates explicit authentication before granting access to geospatial content. It supports multiple authentication methods including HTTP/Basic and OpenID and enforces stringent geographical and resolution-based access controls, complemented by exhaustive audit trails of data interactions down to the pixel and CPU cycle.

Visit https://cubewerx.com/ or email us at info@cubewerx.com today to learn more about our company and our cutting-edge platforms.

Further Reading

Stratos Platform

Website: https://www.cubewerx.com/stratos-platform/
PDF: https://www.cubewerx.com/wp-content/uploads/2024/04/Technology-Brief-Stratos.pdf

Insights Platform (Q4 2024 Release)
PDF: https://www.cubewerx.com/wp-content/uploads/2024/04/Whitepaper-Insights-Introduction.pdf