

GEOINT REMOTE SERVER



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Ball's GEOINT Remote Server (GRS) provides a flexible, expandable system that provides remote ingest, processing, management, metadata synchronization, and data transport from a Forward Operating Location. GRS puts the processing where the data is, going beyond to support the warfighter.

OVERVIEW

Current platforms collect a wide variety of Geospatial Intelligence (GEOINT) data including electro-optical/infrared (EO/IR), Full Motion Video (FM), Imagery Intelligence (IMIT), Hyperspectral Imagery (HSI), and Measurement and Signature Intelligence (MASINT). A need exists for a remotely located GEOINT server capable of ingesting, managing, processing, archiving and sharing multiple data formats between internal and external entities. The GRS will enable organizations to quickly process and disseminate collected information required to generate comprehensive GEOINT products.

OUR ROLE

Ball has demonstrated past performance on the Air Force's Airborne Cueing and Exploitation System, Hyperspectral (ACES HY) program providing remote ingest, processing, management, synchronization, and data transport from a Forward Operating Location (FOL). Ball has experienced personnel who understand modern and open source technologies, the operation of remote processing capabilities, and how to apply software design and development principles to building a GEOINT Remote Server capability that brings agility and flexibility to an organization's GEOINT management needs.

The GRS provides a deployable COTS solution, with a small footprint, that is capable of ingesting, archiving processing, managing, and sharing multiple data formats. GRS is optimized for a disadvantaged or disconnected user; the GRS ensures that the deployed servers operate independent of the centralized data server (hub) while communications are limited or non-existent. Once communications are available, the GEOINT Remote Server will automatically replicate data to the hub.

The GRS enables the transfer of data from the platform media and for the cleaning of the media in preparation for the next mission. GRS enables the bulk transfer copy of the ingested data files to transfer drives for shipment to the hub server if necessary. Data expiration deletes old and transferred files as needed or specified, in the event that capability is needed.

The GEOINT Remote Server incorporates a web-based Search and Discovery system that provides geospatial search capability with search filters displaying results on an interactive browser based map. Users are able to select files directly from maps with the results updated dynamically as search filters are refined.

QUICK FACTS

- Eliminates need to forward deploy analysts; limits need for "boots on the ground"
- Supports all major types of GEOINT data
- Performs automated processing to include conversion of data to standard formats
- Ingested data is quickly available for Search & Discovery showing items of interest on a map
- Enables reach-in processing of data at the forward location – allows analysts to specify algorithms and signatures and receive results via a web GUI
- Provides automated data synchronization to a central PED facility and enables federated search and discovery
- User-prioritized retrieval of full data from remote location via optimized comms
- GRS is already a fielded, proven system – ACES HY
- Provides core system should remote PED be desired

Ball's years of past performance building similar systems for the DoD and IC assures future clients of operational agility and a robust, mission-focused deployable system.

