

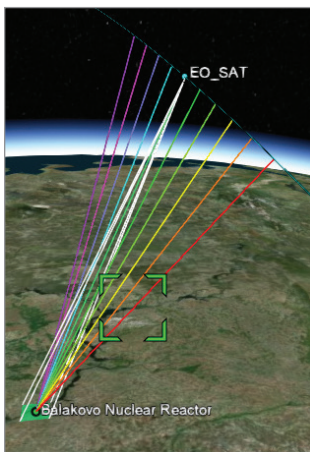


INTEGRATED SOURCE MANAGEMENT

Riverside Research's Collection Planning Suite (CPS) is a web-based modeling and simulation environment and an automated constellation planning tool for space-based GEOINT. The CPS is operating in the National Geospatial-Intelligence Agency enterprise today.

CONSTELLATION PLANNING

The CPS cloud-compliant framework supports satellite collection research and analysis, feasibility studies, strategy development, and daily planning for a multi-phenomenology constellation. It is also ICD 503 compliant and supports multi-classification constellations in a single instantiation.



- Using system models, the CPS can easily modify and manage existing or quickly integrate new GEOINT data providers.
- The CPS creates optimized collection plans using a super-set of the community Collection Requirement parameters including priority, geometry, solar/lunar lighting, and cyclic parameters, and accounts for real-time weather, local terrain, threats, and other conditions.
- Service-oriented CPS can integrate into most system-of-systems via documented web services for collection requirements, execution status, exploitation status, Tip-and-Cue, and other data.
- Planners and researchers can visualize the collection plans on an interactive, IC ITE compliant 4D WebGL globe complete with terrain, imagery, maps, and other GIS layers.

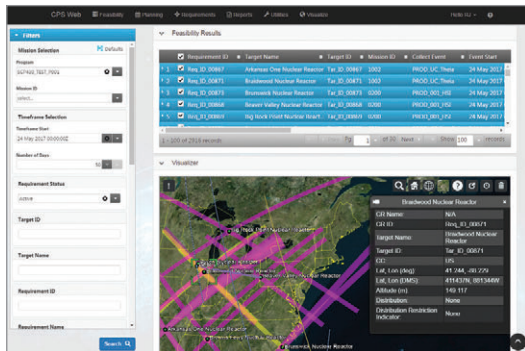
DEMO THE COLLECTION PLANNING SUITE

As a license-free product for the US Government, the CPS is a powerful and affordable answer to your GEOINT constellation planning needs.

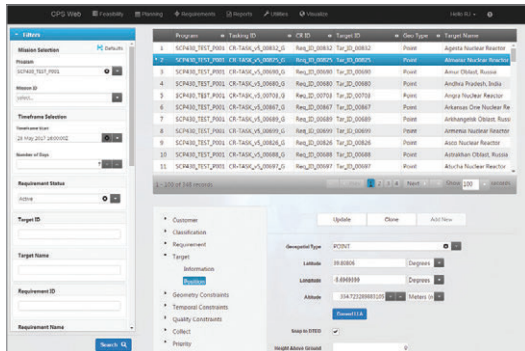
Request a Demo: Eric Patterson • epatterson@riversideresearch.org • 703.908.8374



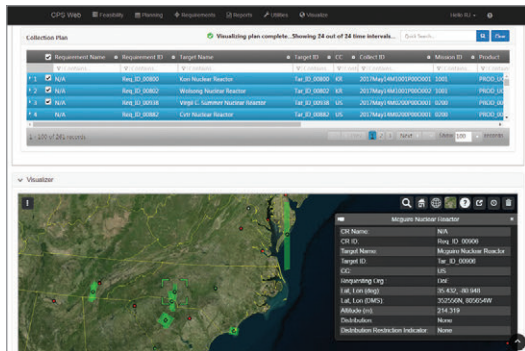
Custom Reports, Statistics, and Analytics



Collection Feasibility



Collection Requirement Management



4D WebGL Visualization

KEY FEATURES

Infrastructure

- AWS/C2S compliant; scalable and elastic features
- Windows Server application; mobile friendly
- Oracle database; extensible to other type databases

Multi-level Security

- Supports multi-level classification in a single instantiation
- Complies with ICD 503
- Authenticates using PKI, IAA, and/or LDAP
- Role-based controls for all functionality

Source Modeling and Simulation

- Agnostic models reflect system capabilities and limitations
- Models can be added, modified, and managed without code changes
- Source models support all phenomenologies

Collection Planning

- Automates single satellite or constellation planning
- Orchestrates sources by performance, strategy, and conditions
- Design and tailor Collection Strategy to exceed info needs
- Uses Tip-and-Cue capability for dynamic or ad hoc situations

Collection Research

- Conduct pre- and post-launch studies to measure performance
- Determine feasibility before submitting a requirement
- Perform collection gap and overflight planning
- Orchestrate special collections

Collection Requirements (CR)

- Manage CRs internally or from an external source
- Robust set of CR parameters and constraints
- Supports multi-level classification and concealed CRs

Service Oriented

- Easily integrates into your system of systems
- Accepts data from external suppliers (e.g., CRs, weather)
- Supplies data to external partners (e.g., plans)

Visualization

- Supports an interactive 4D globe and map
- Uses WebGL technology—4D without a client plug-in
- IC ITE compliant application