



CyOne

INNOVATIVE QUALITY



SUBSTANTIVE EXPERTISE



INSIGHTFUL DESIGN

CEO

William Polities

wjpolites@cyone.com

INTELLIGENCE ANALYTICS &
USER EXPERIENCE CONSULTANT

Kevin Mullis

kevin.mullis@cyone.com

cyone.com



WISRD

Wide-area ISR Discovery

The WISRD Collection Management capability will optimize the process of federating Intelligence, EW, and Cyber assets (both organic and non-organic) to collection requests and operational mission needs while automatically enabling user-to-user collaboration for critical information exchange, dynamic sensor re-tasking, and evaluation of ISR Task satisfaction.



Collection Management is the process that enables prioritized and time-relevant ISR and other asset collection in order to support operational Electronic Warfare, Intelligence, and Information Dominance requirements and mission planning needs.

Collection Management capabilities must support multi-echelon and Joint collaboration to ensure proper alignment and prioritization of EW, Intel and Cyber assets, elimination of duplication of effort, and expediting post mission collection data to the warfighter in support of operational timelines.

WISRD's federated architecture is designed to foster managed independence among loosely coupled collection assets cooperating towards a common goal. WISRD is a web-based solution that integrates state-of-the-art open source applications to enable federated end-to-end support of the collection management process.

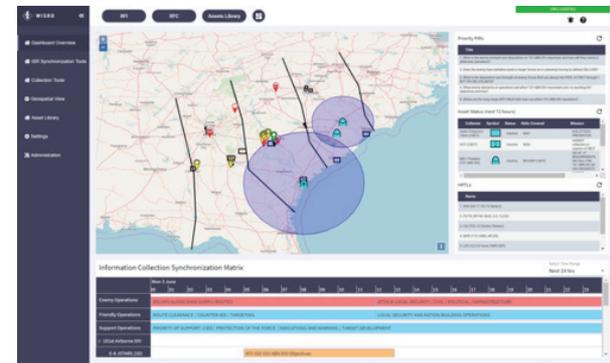
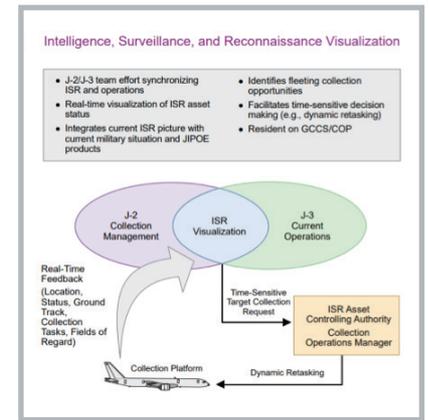
WISRD provides a critical capability for planning, dynamic tasking in real-time, and evaluating the gathered observables and collectibles from ISR Operations, providing insights across the operational environment for the warfighter, which is a challenge for collection management at all echelons.

WISRD effectively streamlines warfighter tasks while retaining the flexibility to utilize both local and cloud-hosted computing resources. WISRD is hosted on Amazon Web Services (AWS) GovCloud, capable of supporting 100+ collection management clients. Leveraging the AWS presence CyOne can support development, testing, bug tracking, and training from anywhere internet access is available. Cyber Quest 2019 operates over a closed network so WISRD was deployed on a single notebook computer capable of supporting 20+ collection management clients. During CQ 19, WISRD demonstrated utilizing multiple standards and best practices to enable integrated services and interoperability with Intelligence, Electronic Warfare, Cyber, and Mission Command systems in a integrated CEMA environment.

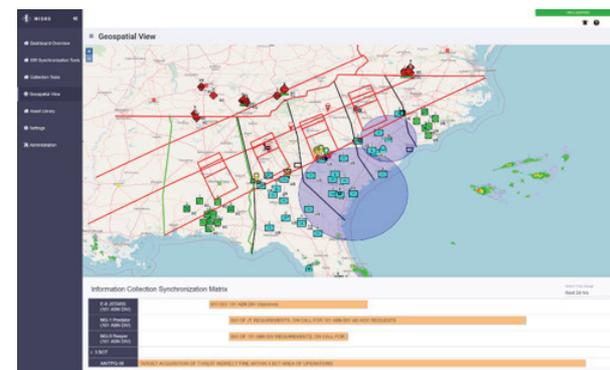
ISR visualization is a subset of WISRD's core capabilities. It is an enabling capability that facilitates coordination and synchronization of ISR activities supporting the joint force and component commands. WISRD's situational awareness visual planning and decision-making aid is supported by a common data set of planning and execution information.

WISRD enables a process performed by the joint force and component command staffs that ensures continuous and responsive synchronization of current intelligence, electronic warfare, and cyber collection assets with current joint operations. WISRD's visualization is intended to bridge the gaps between national, operational, and

tactical level ISR systems; as well as fusing their activities to the force's operational tempo. Future releases of WISRD will help the commander and J-2/J-3 identify fleeting opportunities for intelligence collection or strike operations against enemy time-sensitive targets that may warrant dynamic retasking of collection platforms or retasking of strike assets.



WISRD's dashboards are an easily comprehended, readily accessible, graphic display that depicts the current and future locations of collection assets, their capabilities, their field of regard, and their tasked targets.



WISRD's visualization is integrated in NRT with current military operations. This core capability provides the J-2/J-3 a valuable tool for conducting ISR operations and rapidly responding to changing collection requirements.