



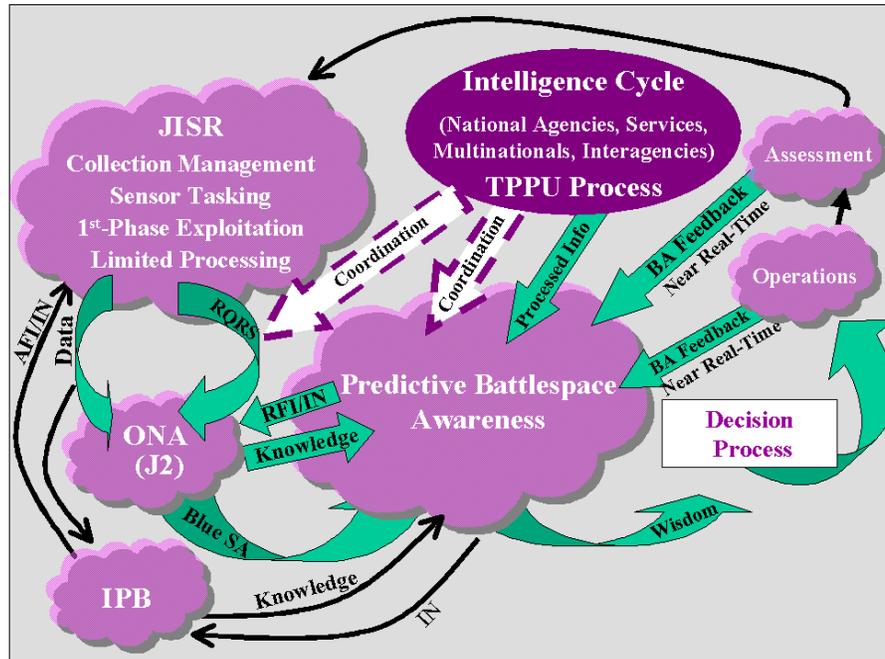
U.S. JOINT FORCES COMMAND JOINT CONCEPT DEVELOPMENT AND EXPERIMENTATION'S CONCEPT PRIMER

Joint Intelligence, Surveillance, and Reconnaissance (JISR)

The JISR is a net-centric approach to the management of intelligence, surveillance, and reconnaissance capabilities, aimed at supporting the demands of the joint warfighter across all domains and all levels of war.

Introduction

The joint intelligence, surveillance, and reconnaissance (JISR) enabling concept supports the standing joint force headquarters and the knowledge requirements of warfighters and analysts. JISR enables development of the battlespace awareness necessary to make decisions, to perform operations, and to assess effects. To enhance synchronization of intelligence activities with combat operations, JISR emphasizes collaboration among commands, national agencies, and multinational organizations; automates current manual collection management processes; and provides new tools for faster, multilevel information sharing. Because it is flexible, JISR may be adapted to individual customer requirements and to the operational and political environments in which it is used. It aims to improve ISR effectiveness and efficiency through new capabilities and asset management processes, new technologies, improved collaboration procedures, and modifications to policies and business practices.



The JISR concept supports the commander's decision-making process by automating portions of the intelligence cycle to provide current, relevant, and actionable information to the commander.

Concept Description

JISR is a net-centric approach to the management of intelligence, surveillance, and reconnaissance capabilities aimed at better supporting the demands of the joint warfighter across all domains and all levels of war. JISR uses automated collection management and information-sharing tools to feed information to a collaborative information environment (CIE), which transforms a collection of networks into a virtual “environment” for disbursed planners and commanders. The improved information sharing provided by this CIE allows commanders and staffs to make informed decisions using accurate and timely intelligence that is linked to operational needs. Multinational data-sharing policies embedded in the CIE allow intelligence sharing among coalitions. Further, algorithms and tools will be developed to match intelligence collection requirements with available assets.

To improve collaboration, JISR enables the joint warfighter:

- ❑ To support modifications to the collection plan
- ❑ To ensure feasibility of plans in view of available collection capability
- ❑ To consider constraints on collection, sensor operations, and rules of engagement
- ❑ To support operations through new collaboration processes and new ISR synchronization capabilities.

In the future, tasking and collection management processes for JISR will become more automated, to include tasks that do not require command decisions. Thus, the collection manager’s focus will shift from hands-on management of assets to validation and quality control. Automated JISR will:

- ❑ Determine whether needed information already exists or is being collected
- ❑ Determine whether the information need requires multi-intelligence assets/sources or multiregime/multiplatform tasks
- ❑ Allocate ISR sensors and platforms to collection tasks based on their capability, status, and availability
- ❑ Assign near-real-time dynamic tasks and sensor-to-sensor cueing
- ❑ Offer sensor-status feedback and data posting.

New and nonconventional assets augment existing ISR collection systems, including those owned and operated by other agencies or coalition partners, as well as those primarily intended for other missions. The effective employment of these systems requires policy and cultural changes that enable information to be readily shared among national, coalition, and organizational users.

Nonconventional assets include all platforms that carry an intelligence sensor as a secondary payload and that may be employed without negatively affecting the platform’s primary mission. The JISR process will determine the existence of these resources, as well as their availability and capabilities for use in collection management planning.

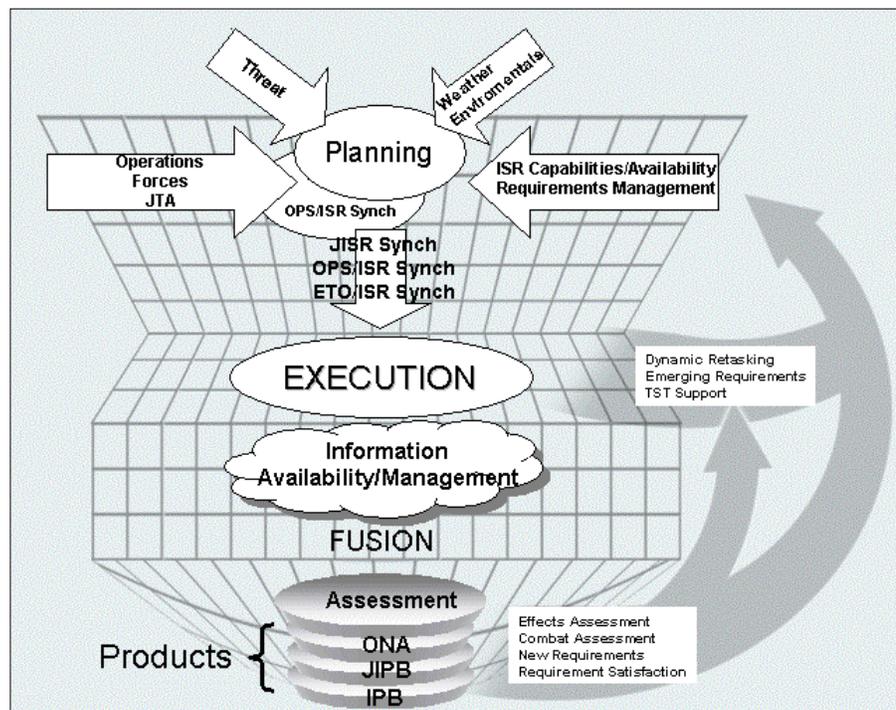
Implications for Joint Warfighting

To dramatically improve ISR support to warfighters, JISR aims to provide:

- ❑ Enhanced collaboration between intelligence and operations, by enabling intelligence collection to respond faster with more useful information to changing operational requirements
- ❑ Effective collaboration among intelligence users through new procedures and visualization and collaboration tools
- ❑ Responsive, efficient ISR process management through automation and new processes and tools
- ❑ Efficient application of joint space, air, ground, and sea systems; of all intelligence disciplines, including imaging, signals, human, open source, and measures and signatures; of surveillance and reconnaissance missions; of all agencies; and of all coalition partners
- ❑ Dynamic tasking of time-critical needs through interactive collection management and decision-support tools
- ❑ Global planning for nonmission-critical or nontime-critical requirements
- ❑ New intelligence collection capabilities that provide persistent coverage and new data types through new unmanned aerial vehicles, space platforms, and sensor technologies.

Concept Application

The JISR concept will be used at the strategic, tactical, and operational levels to provide accurate intelligence products to users faster. It will allow users to direct intelligence questions to collection managers electronically. Collection managers will be able to quickly search existing databases to determine the availability of the information. If it is not available, collection managers may task assets and collect and post the information faster than current capabilities allow. Implementation of JISR will maximize the use of all intelligence collection assets and will provide more timely and accurate intelligence products to the warfighter.



The JISR concept provides timely, relevant, all-source information to decision-makers.