



CURTIS E. LEMAY CENTER

FOR DOCTRINE DEVELOPMENT AND EDUCATION



ANNEX 2-0 GLOBAL INTEGRATED INTELLIGENCE, SURVEILLANCE & RECONNAISSANCE OPERATIONS

CROSS-DOMAIN INTEGRATION AND GLOBAL INTEGRATED ISR

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Global integrated [intelligence, surveillance, and reconnaissance](#) (ISR) operations are conducted in, from, and through all domains (air, land, maritime, space and cyberspace), across all phases of operations, in permissive and non-permissive environments. These operations focus on meeting the joint force commander's intelligence requirements within complex operational environments. Integrated [planning and direction, collection, processing and exploitation, analysis and production, and dissemination](#) (PCPAD) capabilities include integration of cross-domain collection activities using the full-spectrum of sensors (e.g., signals intelligence, radar, electro-optical, infra-red, human, and ground-based); integrated processing and exploitation and analysis and production activities in air operation centers (AOCs), Air Force [Distributed Common Ground System](#), and national production centers; and integrated intelligence products disseminated to tactical, operational and strategic users. Ultimately, cross-domain integrated capabilities enable global integrated ISR forces to quickly analyze collected data, and feed the resulting intelligence—real-time in many instances—to warfighters.

Net-Centric Operations

Global integrated ISR systems use networks, satellite communications, and datalinks to execute global integrated ISR missions. This net-centric structure is known as distributed operations and requires that global integrated ISR operations be cross-domain integrated. For example, a single global integrated ISR mission may collect on maritime target sets using an airborne platform and transmit collected data over space-based satellite communications to analysts in another part of the world who then create and disseminate intelligence products through cyberspace.

For this reason, an open and secure net-enabled architecture is essential to cross-domain integrated analysis and dissemination. The processed data from collection platforms must move on global networks to multiple analysis sites for exploitation and further dissemination. The results should be stored in such a way that they are readily discoverable and retrievable to improve the timeliness, depth and accuracy demanded by multiple customers.