



## Multinational Information Sharing and the Cross Domain Collaborative Information Environment

Multinational information sharing (MNIS) is the ability of United States forces to communicate with allies and coalition partners, an essential element for successful future joint military operations.

USJFCOM's Joint Concept Development and Experimentation Directorate (J9) began working toward a near-term MNIS solution in February 2004 to support warfighters operating in a coalition environment. The result of that effort is the Cross Domain Collaborative Information Environment (CDCIE).

USJFCOM developed CDCIE using a mix of open-source and commercial products to create a suite of standards-based services that share and manage information simultaneously between different classification domains.

CDCIE is designed to run in today's environment and is a building block for future information infrastructure, adhering to the same basic standards that guide net-centric enterprise services development.

A cross-domain solution provides a trusted gateway between two or more networks of different security classifications to allow information-sharing. It typically has some additional capabilities, such as permitting only authorized data to transit the gateway, preventing inadvertent disclosure of information, and prohibiting unauthorized users.

CDCIE addresses the challenge of multinational and interagency information sharing and maximizes infrastructure flexibility and investment.

It also supports peacekeeping and humanitarian operations, promotes standards, emphasizes interoperability, and reduces the cost of collaboration.

The non-proprietary system will enable cost-effective multinational information sharing in both single- and cross-domain environments.

CDCIE provides the warfighter the capability of cross-domain collaboration and automatic data transfer from machine to machine. It also features unique security-enhanced office automation tools that provide a method to safely change documents for release to lower classification levels.

CDCIE consists of the following components:

- Cross domain text chat and whiteboarding with language translation;
- Cross domain audio;
- Cross domain web services;
- Cross domain extended markup language (XML) guard;
- and Secure save and document redaction.