

## Global Command and Control System – Joint (GCCS-J)

### Executive Summary

- Joint Interoperability Test Command (JITC) conducted the Global Command and Control System Joint (GCCS-J) v4.0 Global Release and Joint Operation Planning and Execution System (JOPES) operational tests from April to June 2005 at multiple sites.
- Operational testing was adequate and conducted in accordance with DOT&E-approved Test and Evaluation Master Plan and test plan.
- The GCCS-J v4.0 system, together with v4.0.1 corrective actions, is operationally effective, suitable, and survivable.

### System

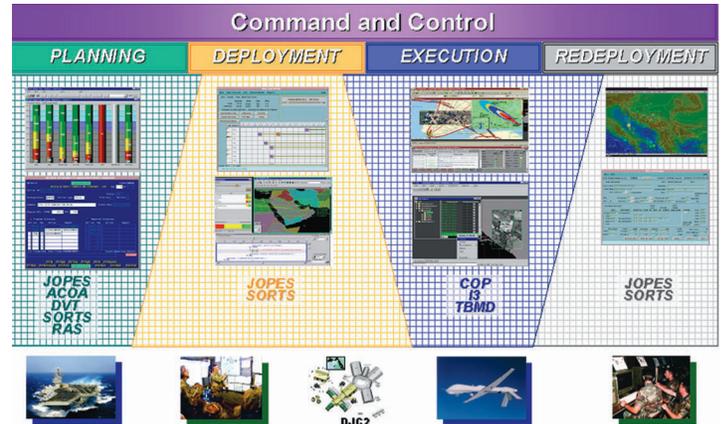
- GCCS-J v4.0 consists of three main components:
  - The Status of Resources and Training System
  - The JOPES Global Release, which upgrades the Common Operational Picture and Integrated Imagery and Intelligence applications
- GCCS-J v4.0 features an adaptable client/server architecture using commercial software and hardware, open systems standards, office automation, government-developed military planning software, and an increasing use of World Wide Web technology.

### Mission

- Joint Commanders utilize the GCCS-J to accomplish command and control.
- It provides commanders with an integrated, scalable command and control, communications, computers, and intelligence system.

### Activity

- JITC conducted the GCCS-J v4.0 Global Release operational test in April 2005 at multiple sites, including U.S. Pacific Command (PACOM), U.S. Special Operations Command (SOCOM), U.S. Central Command (CENTCOM), U.S. Northern Command (NORTHCOM), and U.S. Transportation Command (TRANSCOM). Testing focused on situational awareness, force protection, intelligence, force projection, force readiness, and force employment applications/modules.
- JITC conducted the GCCS-J v4.0 JOPES operational test in June 2005 at multiple sites, including U.S. European Command, U.S. Joint Forces Command, U.S. Southern Command, U.S. Strategic Command, PACOM, SOCOM, CENTCOM, NORTHCOM, and TRANSCOM.
- JITC conducted interoperability testing during both of the above-mentioned operational test periods.



- It links the National Command Authority to the Joint Task Force, component commanders, and Service-unique systems at lower levels of command.
- It provides battlespace awareness and a fused battlespace picture by exchanging data, imagery, intelligence, status of forces, and planning information.
- It processes, correlates, and displays geographic track information on friendly, hostile, and neutral land, sea, and air forces, integrated with available intelligence and environmental information.

- JITC conducted regression testing on GCCS-J v4.0.1 in July 2005.

### Assessment

- Operational testing of GCCS-J v4.0 JOPES and Global Release was adequate. The force protection area performed very well with no critical issues. Force readiness, force projection, situational awareness, and mission support areas each had a very limited number of critical issues, but had operationally acceptable workarounds. The intelligence mission area had two critical issues with no operational workarounds. These same two issues affected interoperability under the mission performance area. Subsequent corrective actions by the program office on GCCS-J v4.0.1 system resolved both

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of the critical issues affecting the intelligence and mission performance areas.

- Testing of JOPES v4.0 revealed marked improvement over test results from 2004. Interoperability criteria were not fully met, but were likewise corrected. Regression testing of corrective actions was adequate.
- JITC adequately tested all critical interfaces with GCCS-J v4.0. Regression testing of corrective actions was adequate and implemented. All critical interfaces performed satisfactorily.
- The National Security Agency conducted an information assurance evaluation of GCCS-J v4.0 together with v4.0.1

corrective actions. The designated approving authority granted the Authority to Operate.

- GCCS-J v4.0 system, together with v4.0.1 corrective actions, is operationally effective, suitable, and survivable. The Milestone Decision Authority recommended fielding.

## **Recommendation**

1. The GCCS-J program should continue improving controls on data updating to preclude data synchronization and accuracy problems in the JOPES database.