Joint Warning and Reporting Network (JWARN)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION
Provides the Joint Forces with a capability to report, analyze, and disseminate detection, identification, location, and warning information to accelerate the warfighter's response to a chemical, biological, radiological, or nuclear (CBRN) attack.

DESCRIPTION
The Joint Warning and Reporting Network (JWARN) is a computer-based application that networks CBRN sensors directly with Joint and service command and control systems to collect, analyze, identify, locate, and report information on CBRN threats, and to disseminate that information to decision-makers for battlespace situational awareness. JWARN has a software and hardware component: JWARN Mission Application Software (JMAS) and JWARN Component Interface Device (JCIDS).

JMAS is the software component and resides on the Joint and service Command, Control, Communications, Computers, Intelligence, and Surveillance Reconnaissance (C4ISR) systems. It will generate warning and dewarning information to affected forces via nuclear, biological, and chemical (NBC) reports. It reduces the time from incident observation to warning to within two minutes (NBC-1 and -4), enhances warfighters' situational awareness throughout the area of operations, and supports battle management tasks. The application allows operator selection of automatic, delayed, or on-command dissemination of all NBC Reports (1-6) and single, validated and accredited implementation of Allied Tactical Publication-45 with the capability to generate and display CBRN/Toxic Industrial Material hazard plots. JWARN automates the recording and archiving of exposure data for effective force protection. JWARN interfaces with the Joint Effects Model to provide detailed, high fidelity hazard prediction plume overlays.

JCIDS is the hardware component that will provide interface between the CBRN sensors and relays warnings to C4ISR systems via advanced wired or wireless networks.

JWARN Increment 2 will provide a single, accredited, net-centric capability to detect, identify, communicate, correlate, analyze, and display results on the Common Operational Picture.

SYSTEM INTERDEPENDENCIES
In this Publication
Global Command and Control System–Army (GCCS-A), Joint Effects Model (JEM)

Other Major Interdependencies
Global Command and Control System–Joint (GCCS-J), Joint Tactical Common Operational Picture (COP) Workstation (JTCW)/Command and Control Personal Computer (C2PC)
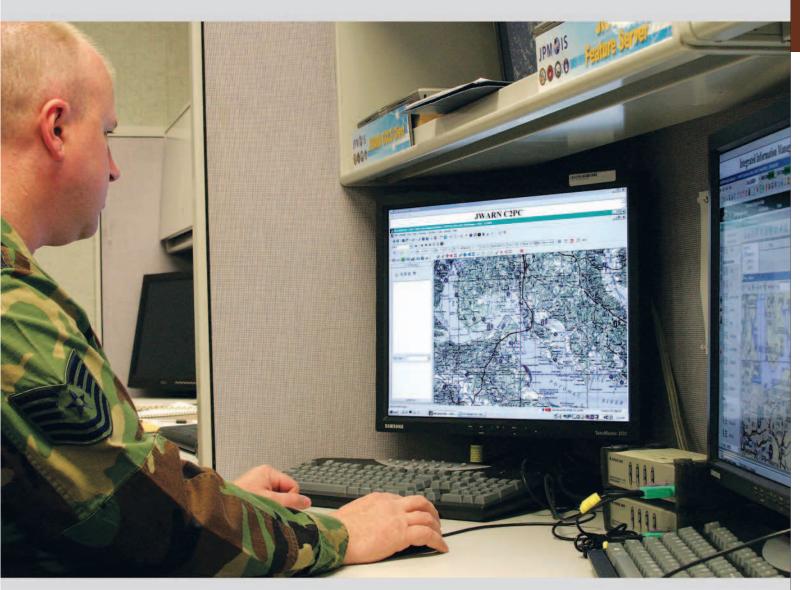
PROGRAM STATUS
- **1QFY12-4QFY12:** Continued JMAS Increment 1 deployment to Army as part of Capability Set (CS) 13-14
- **1QFY12-4QFY12:** Modernization and updates to JMAS Increment 1
- **2QFY12:** JWARN Increment 2 Materiel Development Decision

PROJECTED ACTIVITIES
- **3QFY13:** JCIDS Increment 2 Milestone A decision
- **1QFY13-3QFY14:** Continue JMAS Increment 1 deployment as part of CS 13-14
- **4QFY14-4QFY15:** Continue JMAS Increment 1 deployment as part of CS 15-16
- **1QFY15:** JMAS Increment 2 Milestone B decision

ACQUISITION PHASE

Technology Development	Engineering & Manufacturing Development	Production & Deployment	Operations & Support

Joint Warning and Reporting Network (JWARN)

FOREIGN MILITARY SALES
None

CONTRACTORS
Northrop Grumman Information
  Technology (Orlando, FL)