



## Joint Warning and Reporting Network

### JWARN

#### Description

JWARN is a computer-based application integrating Chemical, Biological, Radiological, and Nuclear (CBRN) data and facilitates sensor information into Joint and Service C2 systems for battlespace situational awareness. JWARN incorporates sensor alert information and CBRN observation reports from the field, makes a plot of the hazard area, provides overlays for display on the Common Operational Picture (COP), and generates the warning message to units. JWARN replaces the manual processes of incident reporting and hazard plot generation, and warning of affected forces. JWARN reduces the time from incident observation to warning to less than two minutes, enhances situational awareness throughout the area of operations, and supports Warfighter battle management tasks.

#### Mission

The JWARN mission is to enable an immediate and integrated response to threats of contamination by weapons of mass destruction or CBRN incidents through rapid warning and dissemination of CBRN information. JWARN enhances situational awareness throughout the area of operation, and support Warfighter battle management.

#### Warfighter support functions:

- Interfaces with the Joint Effects Model (JEM) to produce high fidelity hazard predictions based on terrain and weather to direct CBRN reconnaissance/survey teams, in addition to its warning and reporting capability.
- Generates ATP-45 hazard area plot information automatically and publishes to the COP.
- Correlates sensor alert information and observation reports into warnings to affected units.
- Enables the flow of information from the detector to the decision makers and back to the Warfighter.
- Produces CBRN (CNRN1/CBRN4) reports within two minutes on Service and Joint C2 systems over established communication links.
- Provides operator selection of automatic, delayed or on-command forwarding of all NBC reports and automates archiving of exposure data for effective force protection.
- Consolidates sensor readings to generate and report actual hazard area contours.

#### Capabilities

- Automatically generates ATP-45 hazard area plot information and publishes to the COP.
- Correlate sensor alert information and observation reports into warnings to affected units.
- JWARN enables an automated flow of information from the detector to the decision-makers and back to the Warfighter.
- Allows NBC (NBC-1/NBC-4) reports to be formatted and transmitted within 2 minutes on Service and Joint C2 systems over established communication links.
- Automates recording and archiving of exposure data for effective force protection.
- Consolidate sensor readings to generate and report actual hazard area contours.
- Operator selection of automatic, delayed or on-command forwarding of all NBC reports.

#### Users

USSOCOM, US Navy, US Marine Corps, US Army, US Air Force

#### Status

N/A



This Fact Sheet was cleared for public release on 8/26/2016.

Point of Contact: Chemical, Biological, Radiological, & Nuclear Information Resource Center (CBRN IRC), CBRN.IRC@mail.mil,  
Toll Free: 1-800-831-4408, Commercial: (309) 782-7349, DSN: 793-7349, Fax: (309) 782-1919