Joint Warning and Reporting Network (JWARN)

The Joint Warning and Reporting Network (JWARN) is a standardized software application intended to provide nuclear, biological, and chemical (NBC) warning and reporting, downwind hazard prediction, operations planning, and NBC management capabilities for Joint Forces, from battalion to theater-level command. JWARN will be located in the NBC Command and Control Centers and employed by NBC specialists and other designated personnel. Its primary functions are to report and warn Commanders and personnel of NBC attacks; perform analysis of NBC information and provide hazard predictions; support planning and assessments of NBC defense, including vulnerability assessments; and support sensor management including maintenance planning, configuration control, performance monitoring, and testing.

JWARN will be hosted on Joint and Service Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) systems using the Defense Information Infrastructure Common Operating Environment common resources applications. JWARN C4ISR host systems include Global Command and Control System (GCCS), GCCS-Army, GCCS-Maritime, Intelligence Operations Server (IOS), the Theater Battle Management Core System (TBMCS), Maneuver Control System (MCS), Force XXI Battle Command, Brigade and Below (FBCB2), Advanced Field Artillery Tactical Data System (AFATDS), and Command and Control Personal Computer (C2PC). The JWARN will share information with command and control host databases and other DoD databases providing information on friendly and enemy forces, terrain, weather, and other combat information.

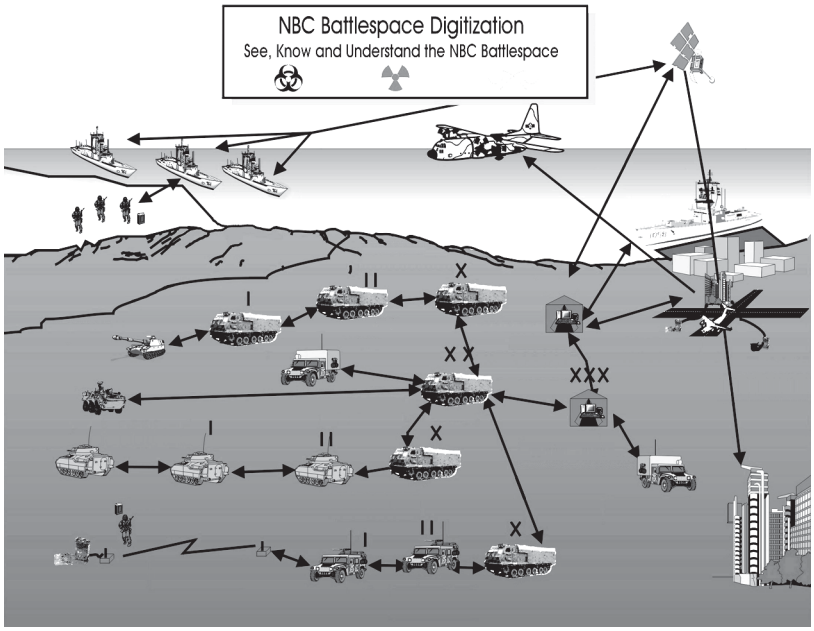
This system is intended to exchange information with legacy and new development NBC sensors. The JWARN Component Interface Device (JCID) allows the exchange of information between the NBC sensors and the JWARN application hosted on the C4ISR systems via Service-specific C4ISR communications architecture (e.g., radio, wire).

JWARN is being developed in three blocks. Block I is standalone NBC analysis software already fielded. Block II is mission software that will be hosted on the higher echelon command and control systems: GCCS, GCCS-M, GCCS-A, TBMCS, and IOS. Block III will be hosted on the same C4ISR platforms as Block II, plus C2PC, MCS, FBCB2, and AFATDS. The JCID interface links Block III to the NBC sensors for remote monitoring and control. Block III will be linked to the Joint Effects Model, which standardizes advanced hazard prediction and modeling and simulation for JWARN.

On July 11, 2003, the Under Secretary for Defense (Acquisition, Technology, and Logistics) approved the program for entry into the System Development and Demonstration phase and directed that an updated Acquisition Program Baseline and Acquisition Strategy be submitted for approval within 60 days. With that decision, the program management responsibility was changed from the Marine Corps Systems Command to the Space and Naval Warfare Command.

TEST & EVALUATION ACTIVITY

The DOT&E approved the Test and Evaluation Master Plan for JWARN Block II on June 23, 2003.



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TEST & EVALUATION ASSESSMENT

DOT&E provided the new Program Manager a test and evaluation concept paper and specific guidance for the Block III Test and Evaluation Master Plan. Timely warning and reporting within a systems-of-systems test with JWARN, the C4ISR networks, the JWARN JCID, the Joint Effects Model, and NBC sensors will be key in test planning during Block III.