

Common Network Interface (CNI)

"The" Affordable Fleet Solution to Joint Strike Fighter



Real-time F-35X Direct Tactical Data Link
Communications to Surface Combatants

Leverages Existing Fleet Tactical Data Link Radios

F-35X Target Display, Integrated Tactical Picture and
Decision Aids

Recognized Architecture Supports Navy
Modernization

Established Navy Program of Record

Common Network Interface (CNI) establishes the Navy technical framework for continuous warfighter-driven improvements. CNI provides an Open Architecture (OA) Joint Tactical Information Distribution System (JTIDS) Model 5 taxonomy-compliant system landing pad for improved situational awareness on LHA/LHD amphibious assault ships and other surface combatants. CNI's capabilities are being introduced through a series of Flights, each adding tactical capability. Flight 0+ is currently in service on 5 ships.

Future CNI Releases will provide a software suite capable of integrating and displaying multiple sources of data into a real time tactical picture to enhance situational awareness. By complimenting existing Navy combat systems functionality and by reusing existing shipboard tactical radios, CNI provides a cost effective solution for direct communication between the JSF and surface combatants. This approach maximizes existing supply chain and training processes to further reduce total cost of ownership.



Common Network Interface (CNI)

CNI, a Navy-developed Technology Readiness Level 8 (TRL-8) Program of Record provides Commercial Off-The-Shelf (COTS) processors and a software suite that enhances situational awareness for the Expeditionary Strike Group (ESG) commander. The CNI tactical picture allows watch officers to view and manipulate tactical data, develop situational awareness and access a variety of tools and software applications from one source as opposed to multiple, stove pipe displays.

CNI provides Tactical Situational Displays and Tactical Decision Aids (TDA) that will assist watch officers in building and maintaining situational awareness. Watch officers will be alerted when unknown and hostile tracks penetrate specified vital areas. Watch officers will be able to annotate tracks, turn on track histories, and maintain track of critical contacts. This includes:

- System Playback Capability and Computer Based Training (CBT) to support operator proficiency.
- Word processing, spreadsheet, e-mail, Web browsing, CHAT and presentation management tools
- Integrated access to the Secret Internet Protocol (IP) Router Network (SIPRNET)

For more information, please contact:

Aylwyn Williams

CNI Program Manager
Al.Williams@gd-ms.com
703.885.3639

Albert Samaan

CNI Program Technical Manager
Albert.Samaan@gd-ms.com
703.234.4452

Chris Pedone

CNI Technical Lead
Chris.Pedone@gd-ms.com
703.885.3625



USS KEARSARGE



USS BOXER



USS BATAAN



USS ESSEX



**USS BONHOMME
RICHARD**

GENERAL DYNAMICS

Mission Systems

Phone 703-885-3639 • Al.Williams@gd-ms.com • www.gdmissionsystems.com

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