

Integrated Defense Systems
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Command, Control, and Communications Networks (C3 Networks)



Description and Purpose:

Command, Control, and Communications Networks (C3N), a division of The Boeing Company, provides end-to-end solutions that leverage transformational communication networks to enhance, net-enable, and integrate existing and future command and control systems, as well as strategic missile and submarine guidance systems to “connect and protect” servicemen and women. Headquartered in Huntington Beach, Calif., C3N employs approximately more than 4200 employees at major sites in Southern California (Anaheim and Huntington Beach); Heath, Ohio; Ogden, Utah; El Paso, Texas; and Kent, Washington, as well as Brisbane, Australia and Seoul, South Korea. The C3N division has employees at each and/or maintains “host” business responsibilities for these locations, as well as supports the Herndon and Crystal City, Virginia and Irvine and Sunnyvale, California locations.

Customers:

C3N provides integrated systems and services to the United States Navy, Army, and Air Force, and the Commonwealth of Australia.

Organization:

C3N is a market leader for ICBM and naval strategic guidance systems. C3N also leads the emerging market for Department of Defense (DoD) networked communications systems and terrestrial space-based satellite communications systems. C3N is a major subcontractor for ICBM sustainment and a supplier for integrated command and control systems.

The division’s success will continue to be driven by its ability to leverage internal and supplier base expertise to provide its customers with the right solutions at the right time and the right cost. The business is organized around capabilities to further improve execution, reduce organizational complexity, and enhance efficiencies to help better serve its customers.

C3N employees are recognized for competencies, experience, and demonstrated performance in:

- Network-enabling technologies & network centric operations
- Precision navigation systems
- Customer knowledge
- Lead system integration
- Lean enterprise design and manufacturing
- Systems of systems integration
- Systems and software engineering
- Large-scale systems integration

Key Programs:

- **Command and Control Enterprise Solutions (C2ES)** – C3N provides integrated systems for DoD joint forces to gain and sustain an advantage across air, land, sea, and space with real-time information that improves command and control capabilities by enabling effects-based operations at home or abroad.
- **Networks & Communication Systems (N&CS)**
 - Joint Tactical Radio System Ground Mobile Radio (JTRS GMR) – A joint services initiative to provide a family of software-programmable radios that will provide reliable multi-channel voice, data, imagery, and video communications for mobile military users that are interoperable between waveforms and service branches.
 - Family of Advanced Beyond line-of-sight Terminals (FAB-T) – Prime contractor and lead system integrator for development of a system that communicates via different satellites, enabling information exchange between ground, air, and space platforms.
 - Combat Survivor Evader Locator (CSEL) – This lightweight radio is a critical component of a global communications system to assist in combat search-and-rescue missions. The system enables search-and-rescue forces to locate, authenticate, and communicate with a downed or isolated soldier, airman, or sailor anywhere in the world via a single radio containing multiple communication channel techniques.
- **Integrated Shipboard Systems (ISS)** – Since the late 1950s, C3N has been the sole supplier of inertial navigators for the U.S. Navy's ballistic missile submarine fleet as well as British Royal Navy Trident submarines. The division provides systems solutions for the Navy and is currently working to replace electro-statically supported gyro navigators as the inertial reference in submarines' navigation systems.
- **Strategic Missile Systems** – Since 1958, Boeing has designed, developed and produced the guidance and control system for the Minuteman ICBM. The SMS team is currently leading a team of contractors to replace the aging guidance system electronics in the Minuteman III ICBMs. The new system will extend the life of the Minuteman III beyond the year 2020.

- **Boeing Defence Australia - Network & Space Systems** –Boeing is delivering several key programs to the Australian Commonwealth that will provide the foundation for its national network centric warfare capability, including the Vigilare Ground-based Air Defense System; High Frequency Modernization Project (HFMP); as well as network management and support services for its Defense Wide Area Communications Network.

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