

C4ISR



Acquisition Directorate



The U.S. Coast Guard's C4ISR Program develops and integrates command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) systems on Coast Guard cutters.



BENEFITS

- Effective electronic systems to equip cutters for the full range of Coast Guard missions
- Improved interoperability with partner agencies, other U.S. military units and allied nations
- Advanced radio, satellite and internal communications
- Improved sensor capabilities, including enhanced radar, infrared optics, and intelligence systems
- Standardized equipment on Coast Guard cutters
- Efficient design that lowers long-term maintenance costs

PROGRAM DESCRIPTION

The Coast Guard needs advanced command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) systems to carry out its law enforcement, environmental protection, and search and rescue missions. The service has also taken on greater counterterrorism and homeland defense responsibilities; upgraded systems are required to meet those challenges.

The C4ISR Program develops and deploys integrated C4ISR systems that allow the Coast Guard's Operational Forces to execute missions effectively and efficiently. Through operationally focused and intelligence-infused systems, the C4ISR Program enables Coast Guard assets to be interoperable with Department of Homeland Security, Department of Defense (DoD), state, local and coalition partners. New C4ISR systems provide significant performance improvements over legacy systems, with superior situational awareness and tactical combat system integration. Through collaboration with other acquisition programs and the sustainment community, the C4ISR program continually strives to provide common and interoperable baselines across existing and future assets. These efforts increase reliability and lower costs throughout the system life cycle.

The C4ISR Program acquires and integrates the latest electronic sensors, computer networks, data processing and information-sharing equipment. This enables Coast Guard operators to perform mission tasks, develop situational awareness and improve coordination with U.S. agencies and allied nations. The program also provides command and control equipment, which allows cutter crews to navigate, maneuver, target and fire weapons, collect and analyze sensor data, and support ship operations. Additionally, the program acquires advanced communication, intelligence and information-sharing capabilities for Coast Guard cutters, thus enabling the efficient and seamless transmission of voice and data communications via radio and satellite.

In 2017, the C4ISR Program successfully deployed a new certified version of Sea Commander – fully compliant with the latest DoD cyber security requirements – to all operational National Security Cutters (NSCs) and the Coast Guard's formal training center. The Sea Commander system provides sensor information, target tracking, weapons control and other tactical capabilities for the NSC. This was the first time in NSC history that all operational cutters had a common Sea Commander hardware and software baseline. This accomplishment successfully lowered life cycle costs for both the acquisition and sustainment communities. In 2018, the C4ISR Program developed and tested the latest version of Sea Commander to align with changes in NSC production hardware and new sponsor requirements. In January of 2019, this new version of Sea Commander was fully certified for joint Coast Guard/DoD operations; it is currently being deployed to the NSC fleet.

The C4ISR Program also develops and delivers a scalable command and control software system called SeaWatch, which is an enterprise navigation and situational awareness tool used across multiple new acquisition and legacy surface platforms. A new version of SeaWatch was recently delivered to the Offshore Patrol Cutter (OPC) Program to meet the detailed design requirements for the OPC Program's acquisition milestone. The new version is likewise compliant with DoD's cyber security requirements.

In addition to the NSC and OPC Programs, the C4ISR Program is also working with the 270-foot Medium Endurance Cutter System Lifecycle Extension Program, Fast Response Cutter Program, Polar Security Cutter Program, and Waterways Commerce Cutter Program to meet their C4ISR requirements.

For updates on C4ISR, visit the <https://www.dcms.uscg.mil/Our-Organization/Assistant-Commandant-for-Acquisitions-CG-9/Programs/C4ISR-Programs/C4ISR/>

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Mission execution begins *here*.