



Modernization of C4ISR (command, control, communications, computers, intelligence, surveillance and reconnaissance) systems is a critical element in the IDS acquisition strategy. The mix of largely obsolete and non-interoperable C4ISR systems



In December 2002, military, government, and industry leaders attended the ground breaking of Lockheed Martin's new Development & Integration Test Center (DITC). The facility will be central in the development, testing, implementation, and life cycle support for all assets, including the C4ISR technologies of the IDS Program.

among the Coast Guard's patrol boats, cutters, helicopters, aircraft and shoreside operations centers, create the potential for critical gaps in communications and situational awareness.

C4ISR MILESTONES

November 2002	I23 rd Patrol Boat C4ISR Preliminary Design Review completed
December 2002	Development Integration Test Center ground breaking
April 25, 2003	C4ISR Test and Evaluation Program Plan delivered
April 30, 2003	Development Integration Test Center-LM Standup I23 Suite

Moreover, the effort required by the mounting difficulties to upgrade equipment and the increasing maintenance time and repair costs on platforms that are, in some cases, more than 30 years old and past the end of their designated service life, often comes at the expense of operational availability.

In order to remedy gaps in the Coast Guard's command-and-control systems in the near term, the Coast Guard Command and Control Engineering Center (C2CEN) in Portsmouth, VA developed a number of interim systems to upgrade legacy assets by providing proven, functional command-and-control (C2) systems in coordination with the IDS program. The ongoing Command Center

Recapitalization Project is concentrating on providing operational commanders with a C2 system to provide access to a Common Operational Picture, near-real-time data, a secure communications channel, and the means to communicate with the Coast Guard's



Later this year, the Coast Guard anticipates completing the deployment of the Department of Defense's Global Command and Control System (GCCS) in all of its area, district and section command centers to meet homeland security mission requirements.

counterparts in the Department of Defense (DoD). DoD's Global command-and-control system (GCCS) will serve as the Coast Guard's near-term means to integrate information and data from disparate sources. In late 2003, we anticipate completing the deployment of GCCS in all of its Area, District, and Section command centers to meet homeland security mission requirements. GCCS applications will

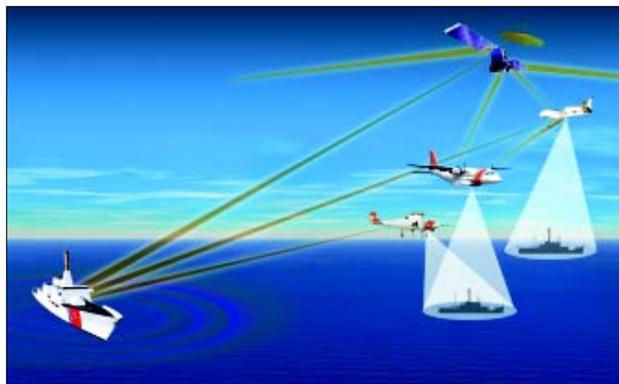


Rescue 21, the nation's primary maritime "911" system for coastal waters of the continental United States, has been coordinated fully with the Coast Guard's IDS C4ISR solution for more than three years, and the requirement for full interoperability is incorporated in the IDS architecture.

also improve C2 capabilities at lower-echelon commands.

In September 2002 General Dynamics was awarded a \$611 million contract for the production, deployment, and support of "Rescue 21" – a modernization of the National Distress and Response System. Rescue 21 will be the nation's primary maritime "911" system for coastal waters of the continental United States, Alaska, Hawaii, Guam, Puerto Rico, and U.S. navigable rivers and lakes. Although not under the IDS umbrella, the Coast Guard's IDS C4ISR architecture incorporates full communications interoperability requirements with the Rescue 21 system.

Under the current plan, IDS will begin deploying the Coast Guard Common Command and Control (CG-C2) in 2005. CG-C2 provides an IDS C2 enterprise deployed to all IDS assets supporting all command echelons – execution, tactical, operational and strategic. The same CG-C2 application supports cutter crews, on scene commanders in maritime patrol aircraft, and command duty officers mission controllers at Coast Guard



Deepwater's C4ISR system will be a critical enabler in allowing the Coast Guard to develop maritime domain awareness—comprehensive information, intelligence, and knowledge of all relevant entities in the U.S. maritime domain that could affect U.S. security, the U.S. economy, and environment.

Area and District command and operations centers.

Deepwater's entire C4ISR system is now planned for development in four incremental stages over the first ten years of the IDS 20-year program. This system-of-systems approach will provide one C4ISR design for multiple assets – assuring both communications interoperability as well as commonality across the fleet.