OPEN CI

The Power of Open Architecture

GENERAL DYNAMICS
Mission Systems

THE POWER OF OPEN ARCHITECTURE

General Dynamics Mission Systems delivers technology breakthroughs and advancements directly to the warfighter. The General Dynamics open architecture computing infrastructure, OPEN CI, is integrated into the ships and connects proven, innovative hardware and software technology seamlessly and reliably.

OPEN CI enables the U.S. Navy to rapidly upgrade mission capability. This approach delivers flexible, scalable and less expensive solutions that provide mission-specific capabilities to the warfighter faster and more cost-effectively than proprietary systems can.

Proven on Platforms

Through the use of OPEN CI, General Dynamics has proven that creating tailor-made, secure technology systems and solutions no longer requires the extreme expenditures, delays and development obstacles inherent to keeping yesterday's wholly proprietary technology systems up to date. This approach eliminates the need to completely overhaul a system for even small changes to be made, effectively reducing time and unnecessary cost.

Integrated for Mission Effectiveness
The Independence-variant LCS was designed with the sailor in mind. The OPEN CI systems that control everything from driving the ship to firing its guns are designed and integrated to maximize automation and enable sailors to focus on their warfighting mission.

Readily Adaptable
From the start, the Independence-variant LCS was designed with OPEN CI to smoothly adapt to rapidly evolving mission needs. Similar to how new hardware and software applications can be added to a personal computer, the Independence-variant LCS is designed to quickly and easily plug in technology advancements while reducing overall costs.

Innovative
The Independence-variant LCS was built with innovative technologies not found on other ships. The "any display, anywhere" capability enables a sailor to display any information on any monitor located throughout the ship. With OPEN CI, sailors are no longer limited to operating the ship from the bridge, allowing for efficient and mission-based crew allocation.

Scalable
The scalable design of OPEN CI allowed General Dynamics to leverage the LCS computing infrastructure on the design of the EPF, reducing time and cost. Although the weapons, sensors and communications systems on the EPF are different than those on the LCS, the infrastructure
is the same, allowing the EPF to smoothly adapt to rapidly evolving mission needs.

Best Capabilities
With the power of OPEN CI, the Independence-variant LCS and the EPF are, and will continue to be, innovative ships that are able to progress alongside technology breakthroughs and
leverage them to the greatest advantage. These ships are positioned to move forward with the best capabilities needed for continued mission success.

OPEN CI

Both LCS and EPF are quick reaction ships that the U.S. Navy needs now. OPEN CI provides the Navy with the ability to deliver mission capability when and where it's needed most.

OA Enabled

Technology tailored to real-world requirements

Whether you need to accommodate a specific goal such as data protection or require comprehensive, end-to-end systems engineering, General Dynamics is the source for state-of-the-art, secure, updatable technology solutions all along the continuum.

Mission Management

Manage operations from a mission center or in the field through a proven, advanced technology interface that includes automated workflows, data visualization and knowledge management.

Sensors

Best-in-industry sensors collect multi-INT data from airborne, satellite, stationary ground and mobile ground platforms.

Processors

Processors are integrated with the sensors to turn raw data into information that can be analyzed for immediate use.

Data Storage

Data and processed information are transmitted into a secure cloud environment for greater availability from the field or mission center where it can be duplicated, exploited and analyzed.

Exploitation

Analysts in the mission center exploit processed and archived data to deliver intelligence to decision makers. Users in the field can also have remote access to exploitation tools available in the cloud to rapidly produce real-time actionable intelligence.

Data Protection

Network cyber defense ensures the security of mission-sensitive data through 24 x 7 watch support, network situational awareness, alert management, incident response and defense-in-depth capabilities.

General Dynamics Mission Systems has more than a 50-year heritage of delivering end-to-end intelligence, surveillance and reconnaissance (ISR) solutions to the U.S. intelligence, defense, homeland and national security, and federal civilian communities. With the expertise to lead, the insight to deliver and the commitment to succeed, we staff each mission with a carefully selected team of seasoned professionals. All of our scientists, analysts, engineers and subject-matter experts—many of whom have decades of service to the nation—have a unique understanding of the challenges inherent in "zero-failure" mission-critical environments.

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For more information, please contact
Daniel Gallagher
Daniel.Gallagher@gd-ms.com
Office: 703-263-2830