



## INFORMATION WARFARE

The integrated employment of Navy's information-based capabilities (Communications, Networks, Intelligence, Oceanography, Meteorology, Cryptology, Electronic Warfare, Cyberspace Operations, and Space) to degrade, deny, deceive, or destroy an enemy's information environment or to enhance the effectiveness of friendly operations.



## Information Warfare (IW) Strategy Framing Concepts

Integrate IW into all Warfare areas and domains

Align with all DoD Information-related strategies

Align and translate smoothly to Joint Doctrine, IO, and Joint Electromagnetic Spectrum Operations

Align IW and Electromagnetic Maneuver Warfare Concept

Link with USMC Concept for Operations in the Information Environment

Provide context for understanding the roles and mission of the Information Warfare Commander

Ingrain the concept of information as a warfighting domain



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# NAVY INFORMATION WARFARE



## MISSION

Defeat any enemy by using Assured Command and Control, Battlespace Awareness, and Integrated Fires to achieve Freedom of Maneuver across all warfighting domains

## Specialities

### Information Professionals

Operate, defend, integrate, plan, maintain, and acquire networks, communications and combat systems integral to mission assurance in all warfare areas and across all domains.

### Intelligence

Conduct full spectrum intelligence operations to develop a deep understanding of adversary capabilities, intentions, and activities in time and space; provide timely, relevant, and predictive all-source assessments to create warfighting options at the tactical, operational and strategic level.

### Cryptologic Warfare

Provide expertise in cryptology, space, signals intelligence, cyberspace operations, and electronic warfare to insure freedom of action while achieving military objectives in and through the electromagnetic spectrum, cyberspace, and space.

### Naval Meteorology & Oceanography

Collect, process and exploit oceanographic, meteorological, hydrographic, precise time and astrometric information to enable Naval and Joint Force Commanders to operate safely and make better decisions faster than their adversaries.

## The Information Warfare Community (IWC)

- Provides three core capabilities of Assured Command and Control, Battlespace Awareness and Integrated Fires; which are central for All Domain Access and the EMW concept.
- Masters the tradecraft for planning, integrating, and executing information-related capabilities and operations to produce joint effects within all domains.
- Is comprised of the Navy's subject matter experts on space, cyberspace operations and the electromagnetic spectrum.



## Warfighting Impacts

### Assured C2 (Network the Force)

- Enable exchange of orders
- Provide assured electromagnetic (EM) spectrum access
- Provide assured Positioning, Navigation and Timing
- Provide dynamic flexible networks

### Battlespace Awareness (Know the Environment)

- Ensure persistent surveillance of the maritime battlespace
- Provide tactical, operational, and strategic knowledge of the capabilities/intent of our adversaries
- Understand and predict the physical and virtual environments
- Provide EM spectrum expertise to optimize naval plans and operations
- Enable automated, processing, exploitation, analysis, fusion, and product delivery
- Provide scientific and technical modeling of adversary systems

### Integrated Fires (Seize the initiative)

- Exploit the spectrum as a weapon
- Enable increased weapon range, effectiveness, and lethality
- Integrate targeting and fire control capabilities

### IW-enabled Concepts

- All Domain Access
- Electromagnetic Maneuver Warfare (EMW)
- Counter C4ISR
- Distributed Lethality

# INFORMATION WARFARE COMMUNITY