

NAVAL SEA SYSTEMS COMMAND



DJC2

Deployable Joint
Command and Control

AN/USQ-199(V)
En Route Configuration



NAVAL SURFACE WARFARE CENTER

PANAMA CITY DIVISION

The DJC2 En Route Configuration AN/USQ-199(V)

The Deployable Joint Command and Control (DJC2) En Route Configuration (ER) is the solution to the Joint Warfighter's need to establish and sustain effective command and control (C2) and situational awareness while transiting from garrison headquarters to a deployed location.

The ER package is one of four DJC2 configurations—along with Early Entry, Rapid Response, and Core—which together provide the Joint Task Force (JTF) Commander with a mission critical, integrated family of systems with which to plan, control, coordinate, execute, and assess operations across the full spectrum of conflict, ranging from a small early entry forward component up to/including JTF operations.

The ER package is designed to be highly adaptable to mission requirements, providing the warfighter access to the Secret Internet Protocol Router Network (SIPRNet)/Non-Secure Internet Protocol Router Network (NIPRNet). These networks achieve functionality through reachback to the Global Information Grid (GIG), and provide access to standard C2 applications available on the DJC2 Core and Early Entry clients and networks.

The ER concept provides a rapidly configurable C2 suite of systems, furniture, communications, and networks on a modified USAF 463L pallet that can be quickly installed on properly configured C-17 and C-130 aircraft. The ER package can be operated from a ground location, on-board the aircraft in flight, and on-board while on the flight line.

What the ER Configuration Looks Like

The DJC2 ER consists of one or two pallets with six operator positions per pallet, accommodating 12 mission operators. The ER also includes a series of “roller carts” to house the primary networking and communications equipment, and at least one system administrator position to manage the networks and communications interfaces. Flight-certified seating allows operators to remain on position during the entire flight profile.

DJC2 ER Primary Capabilities

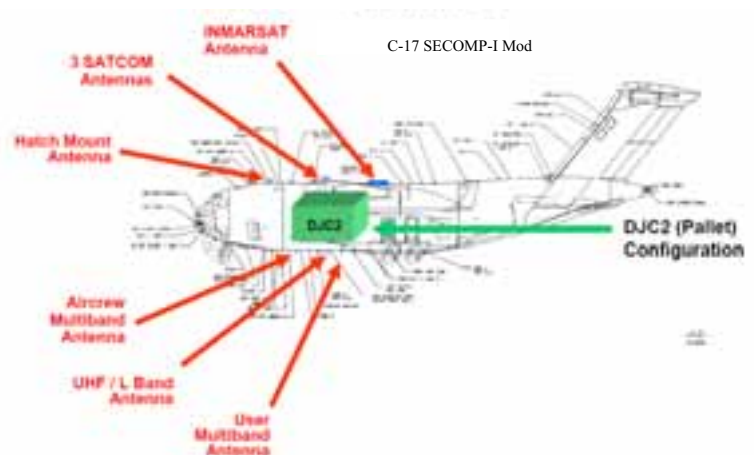
Each duty position can access up to two networks simultaneously, and each operator has access to UHF/VHF line of sight radios, and secure UHF SATCOM. DJC2 ER clients have organic capability to operate within a collaborative information environment (CIE) utilizing DISA-approved collaboration tools common with the ground-based DJC2 systems and reachback locations. Collaborative tools support C2, mission planning, and execution. The DJC2 ER configuration enables the mission crew to maintain operational situational awareness via a common operational picture (COP). These capabilities are available to the operator within 90 minutes of installation on the aircraft, and available during all phases of flight.

System Operating Considerations

- The ER package is capable of operating on standard aircraft power (115 Vac/400 Hz) and on globally available 110-240 Vac/50-60 Hz power sources for ground operations.
- DJC2 ER networks access the GIG via reachback across INMARSAT radios that employ a bonded and compressed protocol that enables a 256 kbps data transfer rate.
- UHF SATCOM access is enabled by DoD satellite up/down links.
- DJC2 ER communications are dependent on the host aircraft being “pre-groomed” with the appropriate antenna configurations for INMARSAT, line of sight (LOS) UHF/VHF, and UHF SATCOM.
- The ER package can be marshaled from short-term storage and ready for aircraft installation within 3 hours of notification.

Key Attributes

- SIPRNet and NIPRNet Networks
- C2 Applications
- Secure and Clear Voice Communications
- Internal and External Collaboration
- Situation Awareness/COP
- IP-based interfaces



NSWC PCD 10/08

Approved for Public Release; distribution is unlimited

For additional information, please contact:

Naval Surface Warfare Center,
Panama City Division
110 Vernon Avenue
Panama City, FL 32407-7001

NSWC PCD Public Affairs Office
Telephone: (850) 235-5486
Fax: (850) 234-4216
E-Mail: NSWCPCPAOWebManager@navy.mil
www.navsea.navy.mil/nswc/panama city

For technical information, please contact:

Joint Program Office
Deployable Joint Command and Control
110 Vernon Avenue
Panama City, Florida 32407-7001
Telephone: (850) 230-7071
FAX: (850) 235-5057