

# IRIS Integrated Radio-Based Information System

## Advanced Network Solutions

### Applications

- Situational awareness
- Weapon target allocation & target sharing
- Fratricide alert
- Collision warning
- Messaging
- Real-time information & video sharing
- Virtual training
- Role-playing, audio & voice groups
- Silent mode

### Operational Benefits

- Automatic consolidation of information for a Common Operational Picture (COP)
- Conformal view of all entities
- Intuitive, accessible, effective, mission-focused applications
- Reduced workload and enhanced mission control and safety
- Improved effectiveness and safety of operational missions using flight formation
- Pre-integrated with Elbit Systems solutions
- Empowers existing and future operational assets



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# IRIS Integrated Radio-Based Information System

## Advanced Network Solutions

With the aim of bringing advanced network capabilities to airborne missions, Elbit Systems has created IRIS - a broadband aerial network that introduces a new dimension to aircraft operations.

IRIS is composed of a radio datalink and mission computer – all in one. The unique combination of high-end, SDR-based, airborne radio, and a set of mission-focused applications, creates an advanced, Gen-5 airborne network. These network capabilities empower new and existing tools and applications, maximizing their potential, and offering significant operational benefits and a huge operational leap forward.

### Single Solution. Unified Communications.

Based on proven experience in radio technology and airborne avionics, the tailored, multi-platform aerial network supports optimized data transfer and fusion, including voice, images and video. By enabling unified air-air-ground advanced communications designed around the various operators, IRIS provides real-time information sharing and a common operational picture.

### Advanced Technology. Improved Operational Efficiency.

IRIS is the latest addition to Elbit Systems' wide range of renowned airborne solutions. Created with vast knowledge of operational requirements, from single user to the national level, IRIS is an extension of an already familiar ecosystem and the natural next step.

### Technology at a Glance

- High-end, inter-operable waveforms airborne radio, based on the MCTR7200 E-LynX™ family of Software-Defined Radios (SDR) by Tadiran
  - Dual band solution (V/UHF & L-Band)
  - Multi channel
  - Long-range link with automatic multi-relay extension
  - Narrowband & broadband links
  - Full diversity
  - SCA 2.2.2
- Advanced MANET ad-hoc network capabilities
- Secured, encrypted and cyber-protected network, according to customer needs
- Enhanced situational awareness and data fusion, displaying relevant information from a wider range of data
- Multi-platform solution
- Optimized per platform and operational requirements
- Future-proof infrastructure
- Pre-integrated with other Elbit Systems equipment and applications
- Compact communication solutions
- Small and lightweight unit

