

Elbit Systems IFF Solutions

Identification Friend or Foe



Identification Friend or Foe (IFF) has become a national priority in today's sophisticated battlefield scenarios.

Elbit Systems, responding to the increased incidence of fratricide (friendly fire) and applying decades of experience in systems development and integration, offers a variety of add-on IFF solutions.

As a systems integrator, Elbit Systems tailors IFF and Air Traffic Control (ATC) solutions to exact customer demands and delivers End-to-End solutions including support services.

Our reliable and versatile IFF solutions are applicable and adaptable to a wide range of:

- Airborne Platforms
- Ground Radar Systems (new or existing)
 - Autonomous Mode
 - Integrated Mode

Elbit Systems IFF Solutions

Identification Friend or Foe

The ground IFF solutions apply to new or existing radars giving them Beyond Visible Range (BVR) capabilities. The airborne solutions elevate air superiority to new levels, enhancing operational capabilities, and above all, increasing flight safety.

Elbit Systems IFF solutions fulfill the mission-critical role of securing national air space by distinguishing own forces from hostile or unknown threats, keeping friendly forces out of harm's way.



Operational Advantages

- Increased flight safety
- Includes Civil and Military modes
- Compliant with civilian aviation standards
- Advantage in BVR intercept scenarios
- Secured identification
- Location identification in emergency situations

Applicable for:

Airborne Platforms

- Fighter aircraft
- Helicopters
- Maritime patrol
- Special mission aircraft

Ground Platforms

- Ground radars
- Anti-Aerial ground systems

Configuration Details

Airborne IFF, integration of:

- Transponder
- Interrogator

Operation Modes

- SIF (1, 2, 3/A, C)
- Secure Mode – NSM (National Secure Mode)
- Mode S (optional)

Ground IFF Solution

Autonomous Configuration

Mobile System:

- Deployment solution
- Coverage of dead zones
- Military & Civil mode
- Military & Civil codes

Integrated Configuration

- PSR (Primary Surveillance Radar)
- SAM (Surface Air Missiles) Batteries

Technical Features

Range

- Selectable:
50,100,150,200,250,300,350,400

IFF Antenna Modes

- Surveillance (0-360°)
- Sectors (up to 4 defined sectors)
- Synchronized with radar antenna

IFF Target Correlation with radar targets

ASTERIX Interface



Airborne Platforms



Mobile System



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