Embedded avionic features several end-user configurations:

- **Embedded configuration** – A single board computer (SBC) within an existing avionics system, designed for upgrade programs and new aircraft deliveries.
- **Line-replaceable unit (LRU) configuration** – an LRU integrated to the existing aircraft’s displays and/or image generators, designed for upgrade programs for advanced aircraft.
- **Standalone configuration** – Additional LRU and display with minimal integration. This configuration is an ideal solution for non-equipped aircraft, relatively veteran platforms, or training platforms not equipped with modern avionics.

Each configuration is provided with the following elements:

- Hardware, LRU or embedded card
- Core-embedded simulation software
- Simulation software adapted to specific requirements
- Planning and debriefing software and hardware
- Integration and installation
- Training
- Life cycle support and maintenance
- Advanced packages include: Data link capabilities, management protocols, transceivers, installation and more
Elbit Systems’ In-Flight Electronic Warfare Simulator (IFEWS™) enables today’s fighting force to cost-effectively maximize operational readiness, while supporting diverse battlefield requirements.

A revolutionary solution in the area of embedded training for electronic warfare (EW), the IFEWS™ offers near logistics-free deployment and a customizable, realistic training experience.

The IFEWS™ implementation and deployment minimizes the need for EW range build-up, range upgrades and ongoing maintenance, ensuring a rapid return on investment (ROI).

IFEWS™

Major Advantages
• Proven cost saving, measured in millions of dollars per implementation
• Proven ROI
• Maximized operational readiness
• Infrastructure and logistics-free deployment
• Advanced, customizable, and realistic training experience

Featuring complete training versatility, the IFEWS™ simulates legacy and new threat scenarios including laser, IR/EO guided threats as well as RF-guided missiles.

Train as you Fight

Elbit Systems’ Embedded Virtual Avionics (EVA™) transforms basic and advanced trainer aircraft into advanced virtual fighter aircraft while maintaining lower hourly training costs.

EVA™ suite is designed to close the large gap which currently exists between the trainer and the modern fighter aircraft.

Elbit Systems’ EVA™ is manufactured in a minimal integration configuration, thus limiting the integration costs.

Elbit Systems’ EVA™ equips the trainer aircraft with the most advanced virtual avionics and tactical training system.

EVA™ – A Revolution in Pilot Training

Training for the operation of advanced avionics, sensors and weapons (radar, EW systems and guided weapons), has traditionally only been possible on advanced fighter aircraft.

The EVA™ system revolutionizes pilot training by enabling advanced mission operations on a trainer aircraft, significantly increasing training effectiveness and drastically reducing training costs.

Packaged on a fully qualified airborne card, the EVA™ system is designed to fit into most standard mission computers with minimal integration effort and with no changes to the aircraft.

The integration of the EVA™ card within the mission computer enables communication with the trainer aircraft’s HOTAS, MFDs, HUD and ADC, generating a high-fidelity simulation of advanced avionics, sensors and weapons.

A proven solution, EVA™ is successfully integrated with numerous mission computers that are installed on many of the world’s leading trainer aircraft.

EVA™ integrated with Targo™ provides the ability to view virtual entities and sensor information on the helmet visor together with the actual out-of-the-cockpit scene.

EVA™ is also available on operational platforms stimulating the real aircraft sensors (radar, EW suite, etc.) thus proving an enhanced hybrid virtual environment.

Major Advantages
• Complete embedded simulation suite for trainer aircraft
• Provides virtual avionics, weapons, sensors and synthetic environment
• Includes air combat maneuvering instrumentation (ACMI) along with debriefing capabilities
• Supports the use of data link for multi-participant distributed training
• Packaged in a minimal integration configuration
• Proven, unmatched cost savings model
• Patent-protected worldwide

The IFEWS™ provides a concrete multi-layer solution for each EW training requirement:
• Doctrine – Authentically simulates a variety of threats through the stimulation/simulation of the aircraft’s self-protection suite (SPS).
• Methodology – A smart threats generator, capable of simulating the majority of current and future deployed EW threats, the IFEWS™ is installed onboard the instrumented platform, providing a realistic airborne training without the need for actual flight over the EW range.
• Logistics – Establishes a self-sufficient EW training environment without the conventional and expensive logistics that are a prerequisite for any given EW range.