



## LIFE EXTENSION AND ADVANCEMENT PROGRAM

# Cost-effective approaches to modernizing radar systems

## Extend the life of your PSR for 15 years

With the cost limitations air navigation surveillance provider (ANSP) and air traffic control (ATC) operations are facing today, there's a critical need for proven, reliable primary surveillance radars (PSRs) that can be easily upgraded with cost-effective modular subsystems.

Collins Aerospace developed the Life Extension & Advancement Program (LEAP) to modernize its ASR-10 and ASR-23 PSRs. LEAP uses a multi-phased approach to extend the operational life of our PSRs by a minimum of 15 years, alleviating obsolescence concerns, decreasing implementation and maintenance costs, and providing a substantial return on investment.

### Adapted for today's requirements

LEAP evolves the long-trusted state-of-the-art Collins PSRs for the complex factors of the modern operational environment. With LEAP, your PSR will be optimized to seamlessly manage today's increased levels of non-static clutter, such as wind farms and 5G/LTE interference, the impact of drones, and increased air traffic loads and densities.

### Demonstrated expertise

LEAP is an updated version of our legacy Service Life Extension Program (SLEP). With more than 100 radar SLEPs performed over the last 15 years, Collins is the only provider with this level of demonstrated expertise. ANSPs and ATC providers can rely on our knowledge, relationships and drive to deliver cost-effective solutions that meet every current requirement while efficiently preparing for future needs.

## KEY FEATURES & BENEFITS

- ICAO, Eurocontrol and FAA NAS compliant
- Next-generation wind farm mitigation technology
- Range and frequency modularity
- Proven 5G filtering
- Real-time 3D situational awareness
- Reduces power consumption and heat loading
- Built-in cyber resilience
- Custom solutions for all ATC operators



## Phased approach to advancement



**ASR-10**  
Legacy



**ASR-10-M Lite**  
with NEW Receiver/Processor



**ASR-10-M**  
with NEW GaN Transmitter

### UNRIVALED PERFORMANCE

Don't settle for mediocrity; demand excellence and experience. Our radar sets the standard for performance, delivering reliable and accurate results that you can trust. RTX is the only PSR manufacturer with radars that are ICAO, Eurocontrol and FAA NAS compliant.

### WIND FARM MITIGATION

Tame the clutter. Our next generation wind farm mitigation technology (WFM 2.0) ensures your airspace stays clear and secure, navigating the challenges of modern landscapes effortlessly ensuring the support of a greener world.

### RANGE AND FREQUENCY MODULARITY

Tailor-made for you. Enjoy the freedom to customize your radar system's range and frequency, adapting to the unique demands of your airspace. Flexibility is the name of the game. Enabling not only ANSPs but also Military players to control safely the sky above us. Including 4/5G future proven filtering.

### 3D CAPABILITY

See beyond horizons. Our radar's 3D capability provides a comprehensive, real-time view, ensuring you have the full picture for enhanced situational awareness and precise control.

### IMPROVED EFFICIENCY

Support a greener future. Our radar's not only fiscally efficient, providing a strong ROI, the radar has improved power efficiency resulting in overall reduced power consumption and heat loading.

### CYBER RESILIENCE

Fortify your defenses. In a world where cyber threats are ever-evolving, our radar stands as an impenetrable fortress, safeguarding your airspace and data with unparalleled resilience.

### UPGRADE SOLUTIONS FOR ALL ATC CUSTOMERS

Whether you're an expert user in the field or a newcomer, our radar upgrade solutions cater to all. We understand the diversity of ATC needs and have crafted solutions to meet every requirement.

### SEIZE THE FUTURE

It's not just an upgrade; it's a leap forward. Join us as we revolutionize radar technology, providing you with the tools you need to command the skies confidently.

Specifications subject to change without notice.

### COLLINS AEROSPACE

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