



# CYBER SOLUTIONS

CYBER/ELECTRONIC WARFARE CONVERGENCE

**LOCKHEED MARTIN**







Cyber Electromagnetic Activities (CEMA) are constantly evolving and we're embracing our customers' missions as our own by delivering innovative thinking, action and experience. Lockheed Martin is actively addressing the warfighters' needs for intelligence and reliable communications today and tomorrow.

### Henosis™ (Unified Platform Prototype)

- Joint integrated mission system
- Comprehensive situational awareness inside and outside of operational areas
- Distributed command and control with a reliable and resilient network
- Integrated defensive mission platform enabling Cyber Protection Team defensive cyber missions
- Versatile attack mission platform enabling Combat Mission Team offensive cyber missions

### Cyber Range (Testing and Training)

- Significantly reduce time and cost to run cyber and CEMA tests by using rapidly deployable environments:
- Proven through years of development and use, the Lockheed Martin Cyber Range automatically and dynamically creates or replicates large scale cyber range test environments
- Experienced Lockheed Martin engineers can insert EW effects into Cyber Training and Testing
- EW effects are simulated during mission rehearsal events

### REDHAWK

REDHAWK is a software-defined radio (SDR) framework designed to support the development, deployment, and management of real-time software radio applications.

Reduce dependency on proprietary electronic warfare (EW) and Intelligence, Surveillance and Reconnaissance (ISR) solutions:

- Versatility across multiple EW and ISR platforms through REDHAWK standards and waveform applications
- We have proven experience converting and developing REDHAWK waveform applications

### Platform Protection

Manufacturer and vendor supply chain vulnerabilities represent one of the top cyber risks for government and industry:

- Specialized engineers can identify and mitigate vulnerabilities from EW and offensive cyber methods on DoD ground, space, surface/subsurface and airborne platforms and radars
- Our team has a proven success rate in finding platform vulnerabilities through understanding adversary techniques and decades of experience

### SIGINT Ground and Air

Proven experience in SIGINT ground and air systems for the intelligence community using non-proprietary, open solutions:

- Experts in implementing and deploying secure NSA approved communications for SIGINT applications
- Leverage Unmanned Aircraft Systems (UAS) to extend the reach of ground forces
- Lockheed Martin has established partnerships to develop low cost solutions for its customers

### Warfighter Solutions Heritage Programs

- Classified Joint Forces mission support worldwide
- Unlimited scope and scale of material mission solutions
- Cutting edge, technologically advanced programs protecting warfighters globally
- More than 10 years of proven success

### Software Defined Radio (SDR)

Reduce the complexity of integrating SDR vendor products into operational communications infrastructures:

- Experience with innovative programs like DCGS-A, WIN-T demonstrates next generation C4 and ISR system architecture and development expertise
- Leverage engineers to develop and integrate SDRs for OTM and other mobile platforms into secure communications channels

### Engineering Expertise

Lockheed Martin has a rich 100-plus year history built on its foundation of engineering. With more than 60,000 scientists and engineers in our business, our team is focused on innovating solutions that solve our customers' most complex challenges. Our industry partnerships help deliver some of the most advanced, cutting-edge and low cost solutions for our customers. Our team of engineers work to seamlessly develop, integrate and scale solutions that deliver results for our customers.