



About Sigma Defense

Who We Are

Sigma Defense delivers military system integration that takes a software-driven approach to tactical communications and edge computing. Our team of veterans and technologists translates sophisticated technologies into a seamless communications fabric that keeps warfighters and command centers connected across domains—from ground to space.

Sigma Defense disrupts the traditional system integrator model by delivering modular, software-defined solutions that enhance agility, flexibility, and real-time decision-making. Supporting key modernization initiatives across all service branches, we integrate AI-driven intelligence, DevSecOps, and cutting-edge connectivity to support Multi-Domain Operations (MDO) and situational awareness in the Mission Partner Environments (MPE). Our platform ensures warfighters have the tools to adapt quickly, remain mission-ready, and operate with confidence.

Our solutions for CJADC2, DevSecOps, EW, C5ISR, EW and digital modernization reduce complexity while increasing operational effectiveness. Whether in the air, on the ground, at sea, or in space, we empower missions with the speed and resilience to stay ahead of emerging threats.

Our Capabilities

CJADC2

Sigma Defense's CJADC2 solutions provide secure access to multi-domain intelligence, integrating sensor data with AI for faster decision-making. Our Olympus ecosystem connects maritime, airborne, and terrestrial sensors to a secure cloud, ensuring end-to-end data and application distribution. With a modular, open-source architecture and proven DevSecOps platform, we enable interoperability between legacy and modern systems. The result: better intelligence access, enhanced network security, and fast deployment of mission-critical applications at the tactical edge.

DevSecOps

Sigma Defense provides a secure DevSecOps platform that unifies and streamlines software development across the enterprise. Rigorously tested and approved by the DoD, it provides a central development environment for software factories where teams can deploy applications faster with a shared set of resources and built-in security. This reduces cost and complexity over traditional DIY approaches.

Electronic Warfare (EW)

Sigma Defense develops EW solutions that support operational readiness in complex environments. Specializing in sensor development, threat simulation, precision jamming, and deception technologies, we provide advanced test and evaluation platforms;

5G electronic attack capabilities; and Assured Position, Navigation & Timing (A-PNT) systems. We also provide rapid prototyping, remote ground and electromagnetic spectrum sensors, and EW training to support the warfighter. This includes building open-air range and laboratory closed-loop simulators that replicate adversarial defense systems, which train warfighters how to respond to threats from those systems using EW capabilities. By modernizing existing range instrumentation radar assets, we help extend operational life and expand capabilities.

C5ISR / FMV

We deliver a complete set of C5ISR solutions across all domains, integrating diverse data sources across tactical networks. Our modular, software-driven approach enhances situational awareness by securely transmitting intelligence—from full-motion video (FMV) and sensor data to TAK feeds—from the edge to centralized data lakes for processing and dissemination. Sigma Defense's FMV solutions provide standards-compliant video and metadata at significantly reduced bandwidth, enabling timely decision-making both at the tactical edge and back to command elements. Our NEOS DogBone enables video transport over ad hoc, point-to-point mesh radio networks, delivering true plug-and-play interoperability across optics, UAVs, radios and TAK. Combined with the Stingray Tactical Relay System, these capabilities provide seamless connectivity among warfighters, weaponry, and command assets—ensuring rapid data

integration, resilient communications, and mission success in dynamic environments.

Testing & Evaluation (T&E)

Our T&E services include test planning, execution, data collection, analysis, and reporting. We specialize in system sustainment, technology development, rapid prototyping, cyber testing, EW training, and threat analysis for mission readiness. Our expertise includes assessing fiber optics and 5G range network infrastructures through surveying, heat map assessments, and detailed reporting. In addition to planning and executing range events, we operate and maintain systems used in network integration evaluations, tests, and training events. Our advanced threat simulators are used on Navy / USAF test and training ranges to emulate the capabilities and effects of threat strategic and air defense radar/engagement systems. This raises the level of realism to ensure better products and training for our pilots.

Training & Readiness

We ensure warfighter readiness by developing modern training programs and curricula, modernizing training environments, and supporting a wide range of engineering and technical training. Using complex digital stimulation techniques, we also develop and support EW system training solutions. These allow operators to train for tactical operations, on their tactical system, in a range of LVC environments—including standalone, team, and multi-ship

exercises. Our extensive programs—both ashore and afloat—include academic curriculum development, in-person and over-the-shoulder training, simulated training events, and military exercises.

Cybersecurity

Our capabilities include Commercial Solutions for Classified (CSfC) systems integration, cybersecurity engineering, and custom solution design for unique global missions. We implement CSfC pre-tested and pre-approved Capability Packages, providing end-to-end solutions aligned with specific user requirements. We provide cyber threat intelligence analysis, research, replication, and mitigation, as well as cyber defense training techniques for cyber protection teams. Additionally, we offer technical expertise for Operational Test & Evaluation to optimize system performance.

Cloud & Digital Transformation

We enable digital transformation through advanced software engineering that modernizes application development and deployment. Our expertise in DevSecOps, CI/CD, and software architecture accelerates development ensuring secure, scalable, and flexible solutions tailored to mission needs. We specialize in seamless systems integration, enabling interoperability between Commercial-Off-The-Shelf (COTS) and government applications, security protocols, and networks. By rapidly adapting to evolving requirements, Sigma Defense delivers cutting-edge, mission-ready solutions to enhance operational efficiency and resilience.

Our Organization:

Division	Sigma Integrated Solutions	Innovative Mission Solutions (IMS)	Sigma Manufacturing & Engineering	EWA	Aries Defense
Capabilities	AISR Network Management FMV Tactical Relay NiAB F-45	DevSecOps Software Development Training & Readiness Maritime Networks	Tactical Communications Edge Compute & Networking	Testing Training & Evaluation Threat Modeling & Simulation Test Planning & Execution Tagging & Tracking	Edge ISR Fusion Tactical Video Transport Multi-UAS Integration Resilient Networking Rapid Edge Deployment



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