



About Sigma Defense

Who We Are

Sigma Defense is a leading defense technology company with a software-driven approach to tactical communications for CJADC2, DevSecOps, Electronic Warfare, C5ISR, Cyber Operations and other critical capabilities. Delivering modular, software-defined solutions that enhance agility, flexibility, and real-time decision-making, we disrupt the traditional system integrator model through AI-driven intelligence for connectivity to support Multi-Domain Operations (MDO) in the Mission Partner Environments (MPE). We ensure warfighters have the tools to adapt quickly, remain mission-ready, and operate with confidence.

Our Capabilities

CJADC2 Integration

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, distributing holistic data to warfighters across the joint force.

A modular, open-source architecture enables interoperability between legacy and modern systems; our software mobility platform rapidly delivers mission capabilities to the field. The result: better intelligence access, enhanced network security, and fast deployment of mission-critical applications.

DevSecOps

Sigma Defense provides a secure DevSecOps platform that unifies and streamlines software development across the defense enterprise. Rigorously tested and accredited with Authorization to Operate (ATO) by the DoW, Sigma Software Studio 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 allows all teams to reduce the cost, complexity, risk, and operational burden, while accelerating innovation across the DoW.

Electronic Warfare (EW)

We develop mission-ready EW systems and integrated training and provide test and evaluation (T&E) services that help warfighters achieve dominance across the spectrum. Our team specializes in sensor development, threat simulation, precision jamming, and deception technologies—allowing us to deliver solutions for 5G electronic attack capabilities; remote ground and electromagnetic spectrum sensors; and Assured Positioning, Navigation & Timing (A-PNT) systems. Additionally, we develop open and closed-loop simulators that replicate adversarial threat systems for Navy/Army test and training ranges. We design and build advanced T&E platforms for test planning, execution, data collection, analysis, and reporting. We augment these with system operations and maintenance, rapid threat prototyping, cyber testing, and threat analysis that support peak performance across the electromagnetic fight.

Secure Networking & Communications

Sigma Defense manages networks at all security levels, across commands. From small-form factor communications at the edge to global ISR networks, we deliver agile capabilities for secure connections between sensor and decision-makers. As a CSfC Trusted Integrator under NSA's Commercial Solutions for Classified (CSfC) program, we architect, deploy, integrate, and maintain classified-level networking solutions.

For over two decades, the U.S. Navy has entrusted Sigma Defense to modernize, maintain and secure its afloat networks. Through our cloud deployment and integration work, we host over 40 remote sites—deploying the first hybrid cloud deployment for the U.S. Navy. Our expertise extends to coalition networks, developing and deploying Network Operations Center (NOC) and Maritime Operations Center (MOC) for NATO, foreign military, and joint forces.

Our tactical relay solutions are powered by the Stingray System—a communications platform that delivers resilient, secure connectivity for sensor data and live full-motion video (FMV) across all domains. With faster, more secure access to Multi-INT data, warfighters gain greater situational awareness for more informed decisions.

C5ISR

We deliver a complete set of C5ISR solutions across all domains, integrating diverse data sources across tactical networks. These software-defined solutions securely transmit intelligence—from FMV and sensor data to Tactical Assault Kit (TAK) feeds—from the edge to centralized data lakes for processing and dissemination. Our 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 our Stingray Tactical Relay System, these capabilities provide seamless connectivity among warfighters, weaponry, and command assets—ensuring rapid data integration and resilient communications, in dynamic environments.

Training & Simulation

We develop modern training programs that support EW missions and operational readiness. Our experts develop threat simulations and radar and adversary emulations to ensure EW teams have the most realistic training and test environments possible short of a real conflict. In parallel, we support a wide range of engineering and technical training to keep forces fluent in the systems that power their daily missions. Our programs allow operators to train for tactical operations, on their tactical system, in a range of Live, Virtual, and Constructive (LVC) environments. Our extensive training solutions include academic curriculum development, in-person and over-the-shoulder training, simulated training events, and military exercises.

Cyber Operations

Sigma Defense teaches proactive cyber defense to prepare teams for real-world threats across cyberspace and the electromagnetic spectrum. Our hands-on training immerses Cyber Protection Teams in mission-based scenarios that model real-world adversary tactics and replicate true-to-life threats—allowing teams to constantly evolve their use of cyber effects to defend electromagnetic spectrum.

Radar Design & Development

Sigma Defense delivers full radar systems engineered for each mission. Our engineers develop hardware and embedded software delivered via end-to-end system integration. We engineer each solution to meet the high-speed and performance requirements of modern radars — enabling them to track targets with precision in dynamic environments. Through Radar Design as a Service, we help DoW customers field sensors tailored to their requirements without the overhead of an in-house development team. With cross-domain capabilities, high-fidelity threat modeling and seamless upgrades, we equip customers with mission-ready radars for air, land, sea and test ranges.

Software Development & Delivery

Sigma Defense uses a methodical, adaptable engineering process to design, deliver and sustain critical software systems. We pair this approach with deep domain expertise to streamline software delivery and connect warfighters to capabilities faster for better combat readiness.

Our cleared software engineers bring a full scope of specialized skills in AI, data analytics, C5ISR systems, cloud computing, software-defined networking, Service-Oriented Architecture (SOA) design, and complex systems integration. Working closely with warfighters, they develop customized solutions and quickly iterate on new applications—using an end-to-end DevSecOps approach to deliver new capabilities to the edge with speed and security.

Our Organization

Division	Sigma Integrated Solutions (SIS)	Innovative Mission Solutions (IMS)	Sigma Manufacturing & Engineering (SME)	EWA	Aries Defense
Capabilities	AISR Network Management FMV Tactical Relay	DevSecOps Software Development Training & Readiness Maritime Networks	Tactical Communications Edge Compute & Networking Network-in-a-Box (NiaB)	Testing Training & Simulation Threat Simulation Operations & Maintenance Radars	Edge ISR Fusion Tactical Video Transport Multi-UAS Integration Resilient Networking Rapid Edge Deployment



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