SOLUTION BRIEF

# Olympus Ecosystem for CJADC2

### A New Approach to CJADC2

To deliver on the CJADC2 vision, Sigma Defense creates a unique framework that aligns with our customers' challenges and priorities. Our open-ecosystem approach—along with our government and industry partnerships—aims to maximize DoD investment by delivering new mission capabilities while leveraging existing systems whenever possible. We do this through a comprehensive Modular Open Systems Approach (MOSA) vendor-agnostic solution, built on our proven and accredited (USN/USMC ATO) DevSecOps framework.

This allows us to deliver an agile solution for edge multi-INT sensor data ingestion, processing, management, AI/ML analytics, COP/CIP, and data queuing for potential

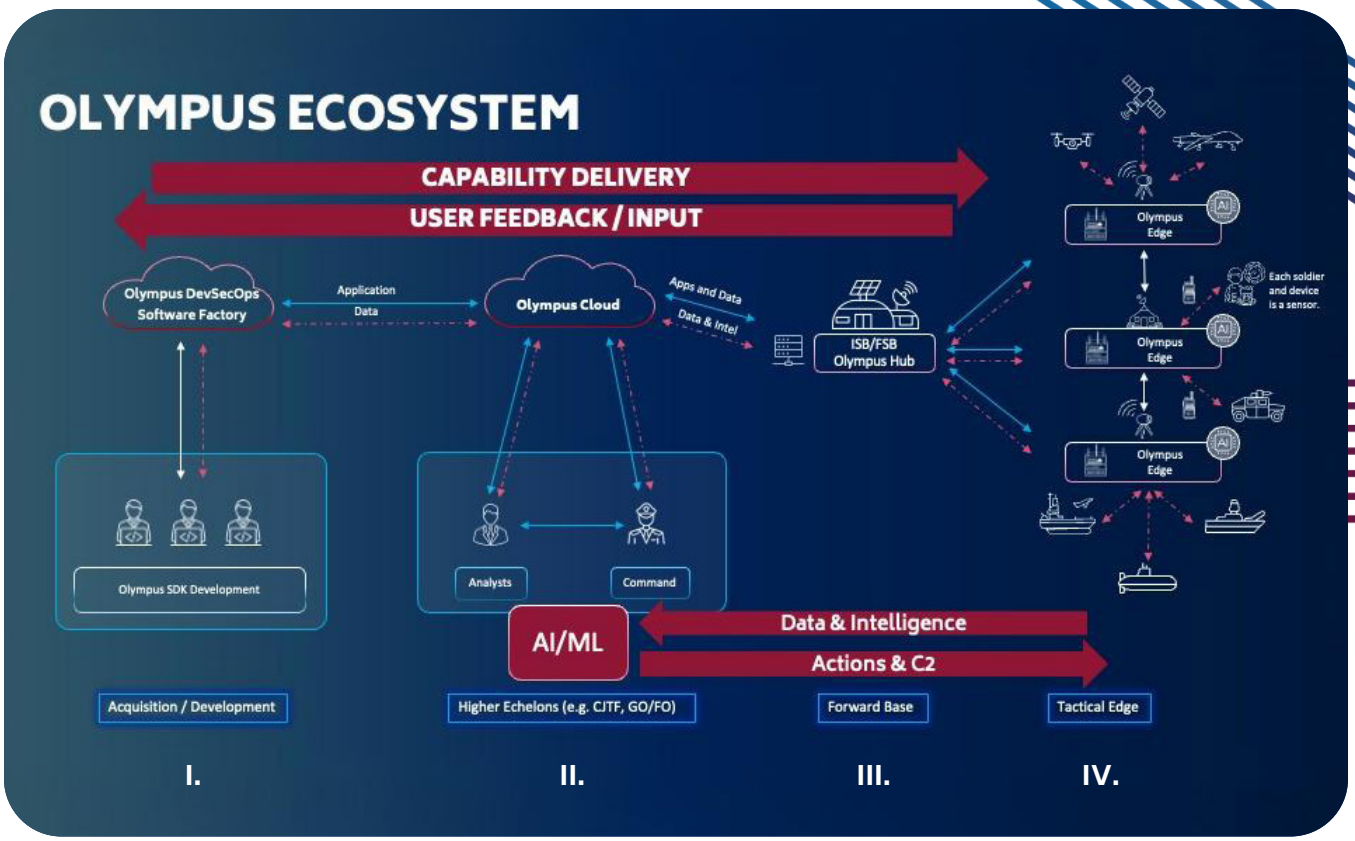

### What is Olympus?

Olympus is Sigma Defense's CJADC2 ecosystem. It allows applications and data to move multi-directionally between the tactical edge, command and control, cloud environments and DevSecOps environments—so processing and decision-making can happen wherever they need to in a dynamic mission environment. This ensures continued operations and situational awareness even in communication-denied environments. Olympus comprises four interconnected components:

- DevSecOps platform for software delivery
- Cloud environment for the distribution of applications and data
- Hub located in a forward operating position
- Edge components located near the operational front

### How We Deliver:

- Accelerate the collection, analysis and distribution of data and intelligence through modular, open-source software driven capabilities
- Deliver timely, relevant and actionable data for more informed decision making across domains
- Provide cloud-to-edge software development capability through a DevSecOps framework that has achieved ATO from USN/USMC
- Enable resource-intensive applications (i.e. AI/ML, C5ISR) to run at the tactical edge
- Push new applications and updates to edge devices as mission requirements evolve




I. **Olympus Software Factory** is a secure and centralized DevSecOps environment where teams can develop and deploy applications faster with a shared set of resources and built-in security. Developers can iterate on new requirements quickly and push code to the Olympus Cloud for distribution across the Olympus CJADC2 ecosystem. Olympus is designed as a complete ecosystem to move applications and data from where they originate to where they are needed, addressing CJADC2 requirements end-to-end. However, individual components can easily be used independently to address specific needs.

II. **Olympus Cloud** is a highly secure DoD cloud environment for storing and distributing data, applications and intelligence across all domains and the joint forces. It allows warfighters to rapidly access new and updated software as mission requirements change, while also allowing upper echelons to quickly access data and intelligence to inform decision making. The Olympus Cloud acts as an "app store" where new applications are vetted for security, published and made available. It also provides visibility into what software is running and the configurations at the hub and edge for full application awareness.

III. **Olympus Hub** is a data and application distribution solution physically located at forward operating bases, serving as a conduit between the tactical edge and the Olympus Cloud. Data and intelligence are collected from multiple edge components, prioritized, and sent to decision-makers for analysis and action. Command decisions and information are then pushed to the operational front through the Olympus Hub. Olympus Hub also acts as a conduit for new and updated software applications to be pushed to the edge and automates the installation and updating of Olympus Edge nodes.

IV. **Olympus Edge** is a hardware-agnostic, modular, software solution that enables rapid integration and multi-mission flexibility on edge computing devices. When installed on tactical computing nodes, Olympus Edge allows the dynamic deployment of sensors, sensor processing, AI/ML, data analytics, command and control systems, and other mission applications. The simplified user interface makes deploying, running, and maintaining complex systems manageable in the field. A flexible architecture allows the edge nodes to quickly deploy new software capabilities to adapt to changing mission requirements and operate from land, sea and air environments in a static or mobile position.