OBJECT COMPUTING

For 28 years, Object Computing, Inc. (OCI) has proudly served the DoD and defense industry by delivering leading-edge consultative solution engineering, application development, and technology training services.

DoD and Defense Portfolio

Agency	Program or Context
Boeing Defense Systems	Satellite Operations Ground Systems (Iridium and Iridium Next TT&C), NEXTGEN, ORBITAL EXPRESS, STREAMS, Common Structures Workstation, BCTM-FCS (Boeing-US Army), Unmanned Combat Air Vehicles, IETM & Sustainment Systems (Apache, F-15, F/A-18, C-130)
BAE Systems	Software Defined Radio, NGA Consolidated Libraries, Land Systems Platforms & Services, Inertial Navigation System (INS)
DARPA	Micro-satellite Communications (F6)
Finmeccanica	Sonar
General Dynamics	Sonar
J.F. Taylor, Inc.	NAVAIR Manned Flight Simulator (MFS)
L-3 ELAC Nautik	Sonar
Leonardo DRS	Surveillance and Reconnaissance, Counter Unmanned Aircraft Systems, Bore Sighting, Data-Centric Onboard Diagnostics, and other Battlefield Management Systems
Lockheed-Martin	Vertical Launch System (VLS)
MIT Lincoln Laboratory	Software Defined Radio
Moog	IM-SHORAD (Moog-DRS-US Army), Hellfire and Stinger Missile Weapons Systems
NAVAIR	Future Airborne Capability Environment (FACE) Transport Services Mission Simulation Environment for the Hawkeye E-2C Airborne Early Warning Aircraft
NAVSEA	Data Compression for Nuclear Submarine Communications
NetAcquire - NASA	Telemetry Data Publish & Subscribe System
Northrop Grumman	Integrated Topside (InTop)
Raytheon Systems	Advanced Radar Missile Defense System, USS Ronald Reagan Ship Self-Defense System (SSDS), USS Zumwalt, Virginia-class Submarine C2 Systems
Sandia National Labs	Real-time Platforms, Pub/Sub Services

OCI-Developed & Maintained Open Source Technology

OCI-developed and maintained technologies are used in battlefield management systems, weapons systems, onboard diagnostic systems, sonar applications, satellite constellation ground systems, and communications systems.

OpenDDS® Project	TAO	Micronaut® Framework	Grails® Framework
DDS-based publish/subscribe solution for distributed systems	CORBA-based request/reply solution for distributed systems	JVM-based framework for developing high-performance microservices	JVM-based framework for developing large-scale web applications

Competencies

OCI applies expertise in today's leading technologies to achieve innovative outcomes for clients in the defense industry.

Architecture Frameworks and Approaches	• Modular Based Systems Engineering (MBSE) • Modular Open Systems Architecture (MOSA) • Future Airborne Capability Environment (FACE) • Distributed Real-Time Embedded (DRE) • Decentralized Blockchain • Cloud-native and Serverless
Methodologies	• Agile, SAFe, Iterative
Development Languages	• C++, Java, JavaScript, TypeScript, C#, C, Python, Swift
Operating Systems	• RT/Embedded OSs (VxWorks, Linux, Yocto), Windows, macOS, Android, iOS
Cloud Engineering	• All implementation patterns from storage through workloads to cloud native • Multi-cloud (GCP, AWS, Azure) DevOps automation, CI/CD • Accessible and secure data environment provisioning
IIoT Edge Engineering	• Sensor/device integration, orchestration and management; edge machine learning, computer vision, data distribution services (DDS, ROS2)
Web Development	• Responsive/progressive web application development; React, React Native, Vue, Svelte, HTML5, CSS3, JavaScript, TypeScript, Node.js
AI and Machine Learning	• Distributed ML (edge, on-prem and cloud), simulation and digital twin for model development, RT embedded ML, predictive analytics

Additional Qualifications

Professional Association Membership	• Influencing member and provider of DDS Foundation leadership for Object Management Group
Diversity Certifications	• Woman-owned small business (WOSB) • NWBOC certified

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