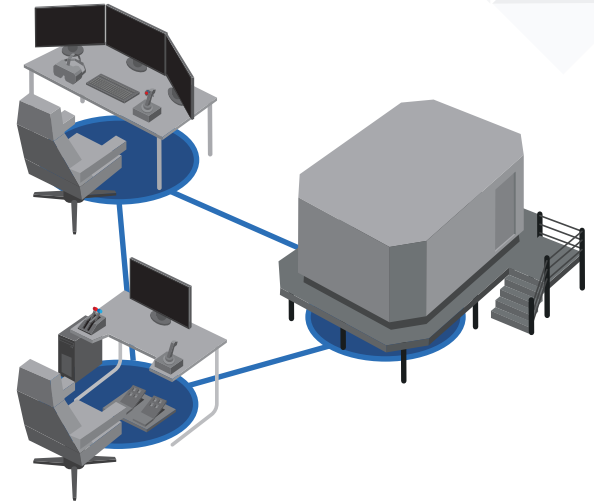


TRAINING, SIMULATION, AND WARGAMING

Modern weapon systems are built on digital platforms that rely on data sharing to counter increasingly complex and lethal threats. The systems warfighters depend on for training continue to lag as the challenge of bridging data communications between varying simulators increases while continually integrating new technology.

At Tangram Flex, we create and integrate tailored communication adapters to enable training and simulation systems to be modernized, using existing open-architecture standards with interoperability as a key requirement. Our team combines this approach with commercial software development, software integration, automated deployment, and cyber security to quickly modernize and link diverse simulation systems across the globe.



Pillars of Integrated Training & Simulation

Interoperability

Each military branch has unique architectures and standards. Our software integration platform, Tangram Pro®, converts data between standards with high accuracy and security, enabling multiple services to operate within a shared simulator ecosystem.

Rapid Integration

Traditional training scenarios are tedious and time consuming to update. With a mix of MBSE tools, interface code generation, automated message adapters, and DevSecOps tools, operators of training systems can rapidly update, reconfigure, and share new scenarios with their teams.

Multi-Level Security

Next-gen training needs to operate simultaneously across multiple platforms operating at multiple levels of security. A CSI approach uses interface generation to facilitate secure data messaging between levels of classification and authorization.

Related Initiatives

TWIST (Phase III SBIR; AFMC): Tangram Flex demonstrated the application of component-based engineering for faster integration of new technologies in remote and collaborative wargaming simulation systems.

AFMS3 (SAIC): With subject matter expertise, Tangram Flex is supporting the SCARS program office, future-facing Joint Simulation Environment (JSE), and the Simulators Innovation Cell.

SCILLS (AFLCMC/WNS): Tangram Flex demonstrated the ability to improve the fidelity of COTS simulation hardware and software by integrating directly with executing simulator OFP code.

JIT-MMA (AFRL/RH): Tangram Flex seamlessly integrated both COTS and GOTS equipment into a comprehensive training ecosystem to empower maintainers, enabling them to excel in handling unfamiliar maintenance tasks in challenging work environments.