

# AUTOMATIC AND ASSURED CODE GENERATION

## Program Overview

Integrating new technology into legacy systems traditionally requires time-consuming manual custom development. In this program, Tangram Flex's engineering team helped our customer generate secure software interfaces for rapid replacement of components in open architecture systems.

## Technical Approach

Our customer needed a faster and safer way to update and replace software components in an open architecture system. Tangram integrated an on-premise tool to generate secure software interfaces. Tangram provided custom workflows to meet our customer's major needs:

**Rapid generation of software interfaces to connect components**

**Access to advanced assurance tools with readable, actionable evidence of cyber security and resiliency**

**Automatic documentation for generated code**

The customer's engineering team was able to perform immediate component swaps without affecting other parts of the system. System updates can now be completed in a fraction of the time with an unmatched level of cyber resiliency.

## Component-based Digital Engineering with Tangram Pro™

There is a critical need to rapidly change software in defense systems to accommodate changing mission requirements and market needs. Tangram Pro™ helps engineers build configurable systems with tools for system design, automatic code generation, and software assurance evidence. Tangram Pro™ enables engineers to add, change, version, and reuse individual components for faster, more secure retrofit and upgrades.