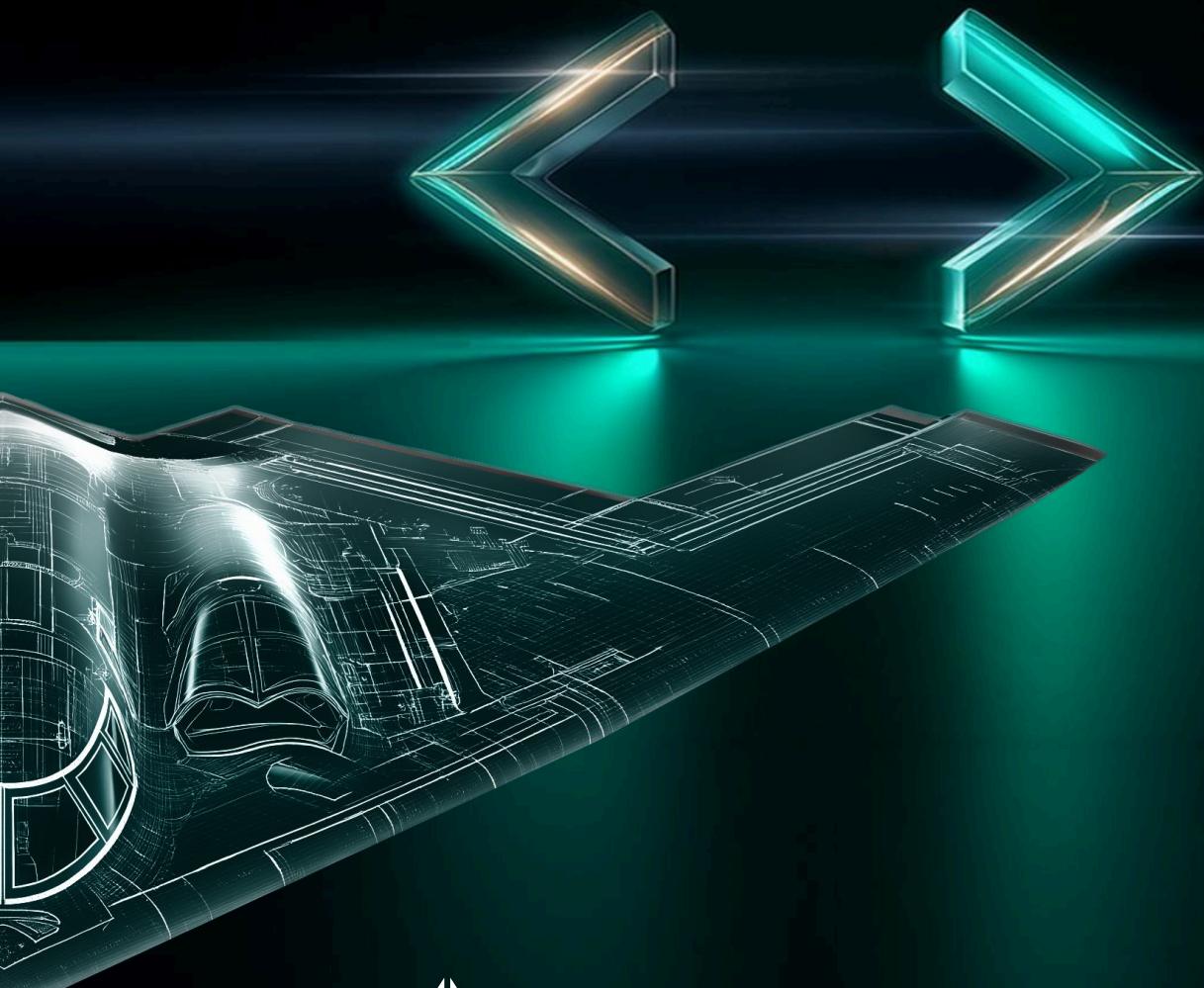




CONTINUUM

CODE Refactoring at unprecedented speed and savings



ALPHA OMEGA

CASE STUDY: U.S. AIR FORCE CODE MODERNIZATION IN 6 MONTHS

The U.S. Air Force partnered with Alpha Omega to modernize a mission critical legacy application transitioning from AngularJS to Angular 17. After accelerated prototype development, translation of the entire source code was completed in 3 months.

Air Force Angular JS to Angular 17 transformation with CONTINUUM CODE

99.9%

Deterministic AI Mod

Continuum Code translated the AngularJS codebase to Angular 17 with consistent partners, clean structure, and zero regression.

75%

Faster Delivery

Completed in just 6 months vs. the projected 2 years, accelerating delivery while maintaining full operational integrity.

24%

Code Efficiency Rate

Optimized legacy codebase from 86,931 to 66,479 lines, enhancing performance and maintainability.

60%

Cost Savings

Significant savings over Gen AI solutions are a direct reflection of the speed and accuracy of Continuum Code.

HIGHLIGHTS



514 AngularJS files → 361 Angular 17 components

Legacy code rebuilt into a modern, modular architecture.



86,931 SLoC → 66,479 optimized SLoC

20K+ lines eliminated — a 23.5% AI-driven reduction.



292 HTML templates + stylesheets updated

Legacy UI replaced with a streamlined Angular 17 system.



Secure, Future-Ready Codebase

Fully validated, debt-free, and ready for next-gen platforms.

Continuum Code took what would've been a two-year project and cost **over \$2M** & delivered a 6-month success story with over **60% cost savings.**"



CASE STUDY: U.S. AIR FORCE CODE MODERNIZATION IN 6 MONTHS USING



Challenge

The U.S. Air Force had a mission-critical application that relied on outdated code. The legacy system had no off-the-shelf replacement and required a transition from AngularJS to Angular 17. To meet their modern software and architecture standards, the Air Force needed expert guidance and fast modernization, without mission disruption.

Solution

Alpha Omega modernized the application from AngularJS to Angular 17 using deterministic AI through Continuum Code. Chosen for its low risk, 75% faster timeline and 60% lower cost compared to traditional manual code updates, this method aligned the application with the Air Force's software and architecture standards. The project was completed in two phases: a Prototype phase (May–August 2024) that confirmed AI could effectively convert the legacy code, and a Full Migration phase (January–April 2025) that finalized the transition (including elements of Angular 2 and 7) using a combination of manual and AI-assisted coding.

Results

The application was updated into an Angular 17 system compatible with the current development environment. The Alpha Omega deliverable had no compilation errors. The prototype phase did not include input from the vendor responsible for operations and maintenance (O&M) services. In the second phase, the Alpha Omega team collaborated with the O&M vendor, requiring less than 25% of an FTE's time to install the updated system, and integrate it into the client's target CI/CD deployment pipelines.

The U.S. Air Force originally budgeted 2 years and \$2M for this project. Continuum Code delivered in 6 months with over 60% cost savings.

When mission outcomes matter most, the federal government turns to Alpha Omega.

As a trusted federal partner, we accelerate transformation and operational efficiency via applied expertise in digital modernization, AI, cybersecurity, cloud, data management, and enterprise solutions. Let's connect to see how Alpha Omega can help your agency accelerate excellence.

Total mission automation.



CONTINUUM
AUTOMATION FRAMEWORK

CODE **DESIGN** **CONNECT** **SECURE**

*Continuum accelerators are readily awardable through CSOs,
OTAs, SBIR and multiple commercial marketplaces.*