



DAF API ROADMAP 1.0

Providing the DAF with services that facilitate secure data access and software interface sharing

Increasing competition on the global stage may force the US into potential conflict against peer and near-peer adversaries. To meet the challenges of scale and interoperability with the rest of the Department of Defense (DoD) and key allies, the Department of the Air Force (DAF) must invest in centralized services in support of a modern Application Programming Interface (API) ecosystem. Adopting an API-First architecture will provide resilience and interoperability for our critical warfighting applications. The architecture will cover systems including C2 and intel systems and is designed to support organic software developers as well as commercial partners.

Implementing an API-First Architecture is Critical for DAF Modernization

Implementing an API-First Architecture that places APIs at the core of software design will automate standards for data sharing and allow systems to communicate data in real time

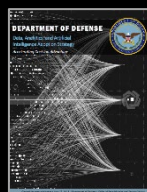
CIO Strategy LOEs

The DAF CIO Public Strategy published in September 2022 introduced six primary Lines of Effort (LOEs) to support DAF's IT priorities for FY23-FY28.

The LOEs directly address the needs of DAF's emerging strategic and technological environment. The implementation of an API-First architecture and improved data management is critical to the advancement of the highlighted LOEs below.

- 1 Accelerate Cloud Adoption
- 2 Future of Cybersecurity
- 3 Workforce
- 4 IT Portfolio Management
- 5 Excellence in Core IT & Mission Enabling Services
- 6 Data and AI

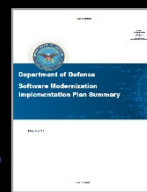
March 2023



DoD Software Modernization Implementation Plan Summary

Defines a goal to advance access to and interoperability of software capabilities and data through an API strategy and API standards

June 2023



DoD Data, Analytics, and Artificial Intelligence Adoption Strategy

Asserts that the DoD will treat data as a product by investing in infrastructure that is abundant, flexible, secure, and jointly interoperable, and scalable to all enterprise users. It upholds the DoD VAULTIS data goals that ensure DoD Data is Visible, Accessible, Understandable, Linked, Trustworthy, Interoperable, and Secure

What is the Current State of Secure Data Access & Software Interface Sharing in the DAF?

DAF systems **do not** currently have a standard, scalable, and easy way to communicate data in real-time



Data Access Model

The DAF is beginning the move to a direct data access model through a decentralized, domain-driven approach that unlocks data at its sources and avoids duplicative sources



Secure System Communication

System to system communications in software lack a standard format and appropriate credential support for secure data sharing across the enterprise



Inconsistent API Offerings

Until the DAF can implement an enterprise API solution, it remains subject to the API services established by various communities as well as the API offerings of data platforms

What does an API Roadmap Deliver?



Accessibility

A single SDK framework makes standardized data and software interfaces developer-friendly and eases integration across organizations



Interoperability

Integration standardization will reduce the burden on industry, joint DoD partners, and our allies – making the DAF a more reliable and collaborative partner



Security

Coupled with the ICAM solution, APIs automate formatting, access, and discovery while enforcing enterprise standards for increased security



Scalability

Enterprise services ensure the internal consistency, security, and ease of adoption that help API providers manage the volume of requests needed by modern DAF missions

The DAF API Roadmap 1.0 serves as the strategic guide to deliver secure data access and software interface sharing to the DAF through an API-First Architecture that connects end users and automated systems to data.



DAF API ROADMAP 1.0

Rather than waiting to make progress towards the API solution until the DAF secures all component parts, it can begin making progress through a phased approach

