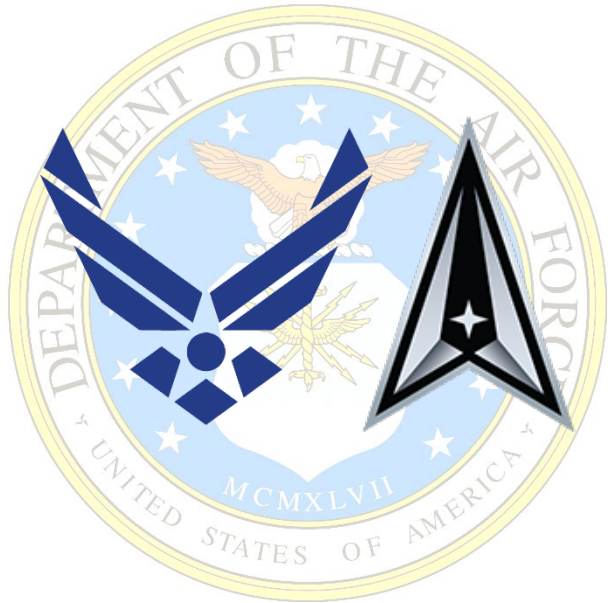


Department of the Air Force

Integrity - Service - Excellence



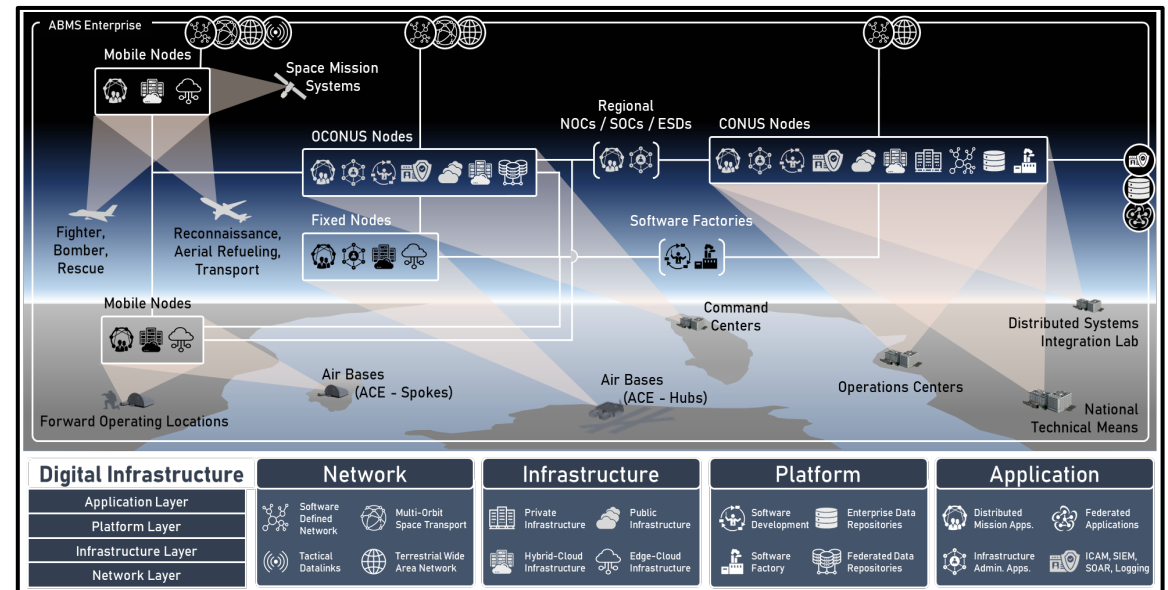
DAF PEO for Command, Control, Communications and Battle Management

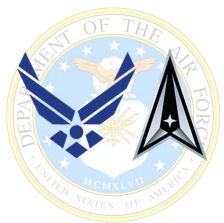
**Brig Gen Luke Cropsey
USAF**



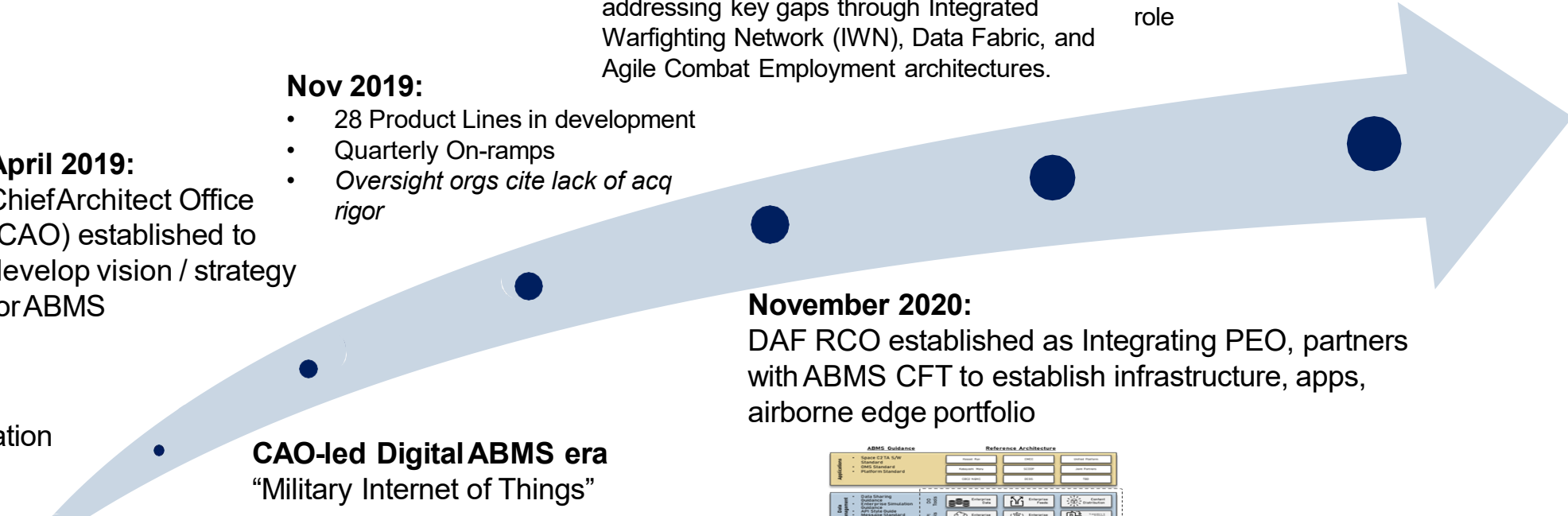
DAF PEO C3BM Mission Overview

- **Mission:** Deliver an integrated BATTLE NETWORK providing resilient decision advantage enabling USAF, USSF, Joint, and Coalition forces to beat the pacing challenge
- **Areas of Responsibility:**
 - **C3BM Architecture and System Engineering:** Responsible for the technical integrity of the DAF C3BM system of systems -- *Design and Engineer the DAF's BATTLE NETWORK*
 - Build the DAF BATTLE NETWORK blueprint required to beat the 2030 pacing challenge
 - Integrate DAF C3BM programs to deliver timely, intermediate DAF BATTLE NETWORK capabilities
 - **C3BM Acquisition:** Deliver core DAF BATTLE NETWORK components integrating USAF and USSF C3 programs to provide resilient decision advantage
- **DAF Mandate:** Deliver integrated C3 capability across the DAF; enable JADC2 and coalition requirements and execution
 - **USAF Portfolio:** Integrate C3BM programs across PEO Digital, C3I&N, DAF RCO, and ABMS
 - **USSF Portfolio:** Integrate C3BM programs across PEO BMC3, SDA, Space RCO, and NRO
- **PEO:** Brig Gen Luke Cropsey
- **Chief Architect/Chief Engineer:** Dr. Bryan Tipton





Program Evolution



Numerous Heritage Efforts:

- 2010-12 JSTARSAoA
- MDC2
- Other Analyses

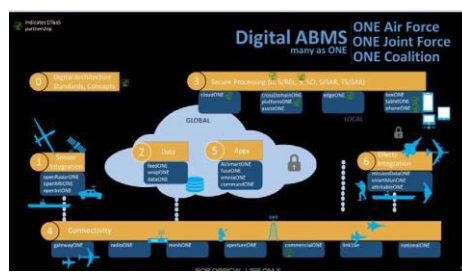
Jun 2018:
JSTARS
Recapitalization
Cancelled

April 2019:
Chief Architect Office
(CAO) established to
develop vision / strategy
for ABMS

Nov 2019:

- 28 Product Lines in development
- Quarterly On-ramps
- Oversight orgs cite lack of acq rigor

CAO-led Digital ABMS era
“Military Internet of Things”



January 2021:
DAF CAO shifts focus to DAF architectures addressing key gaps through Integrated Warfighting Network (IWN), Data Fabric, and Agile Combat Employment architectures.

November 2020:
DAF RCO established as Integrating PEO, partners with ABMS CFT to establish infrastructure, apps, airborne edge portfolio

Sept 2022
PEO C3BM established: assumes ownership of ABMS and aligns architecture and systems engineering of CAO to fulfill integrating PEO role

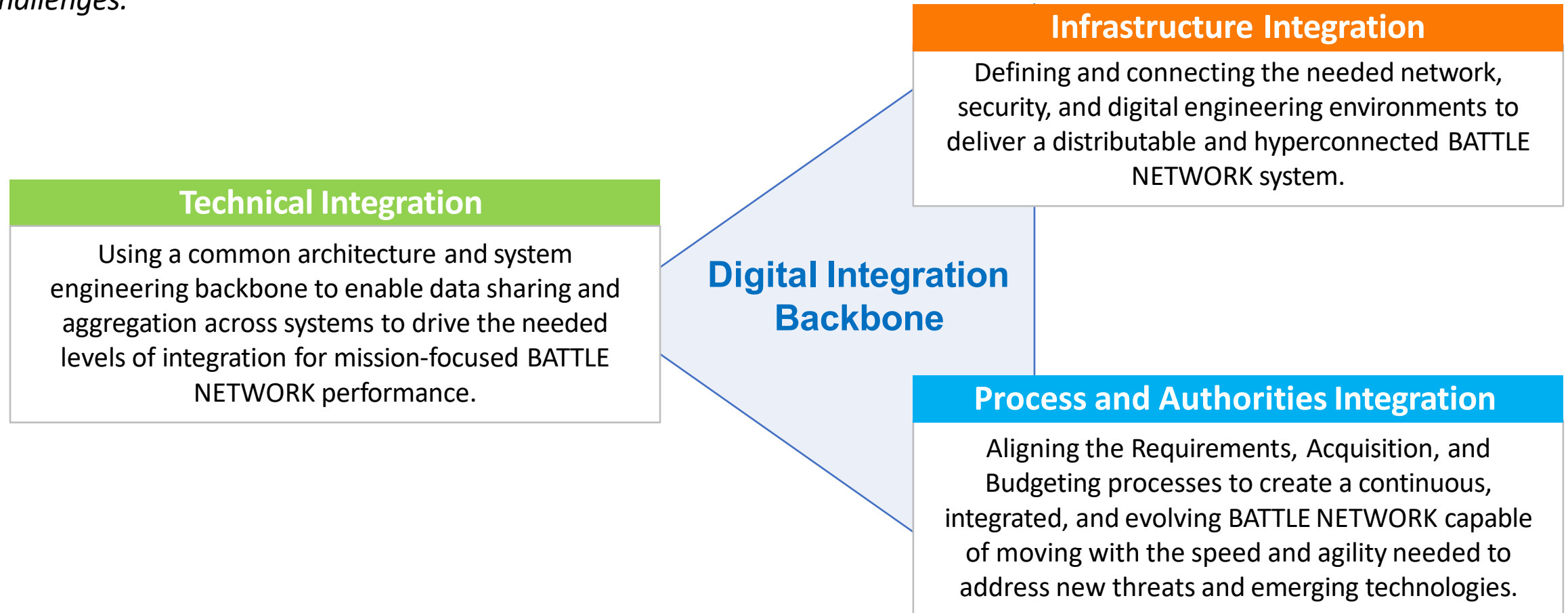
Category	ABMS Guidance	Reference Architecture
Architecture	Space & Air Force Standards & OCS Standards Platform Standard	Cloud Native, Cloud Managed, Cloud Native
Data Management	Data Mining, Data Analytics, Data Simulation, Data Governance, Data Catalog, Data Lake, Data Warehouse, Data Lakehouse, Data Mesh	Cloud Native, Cloud Managed, Cloud Native
Connectivity	CDC Standards, OCS Standards	Cloud Native, Cloud Managed, Cloud Native
Data Privacy	CDIS Guidance, Platform Guidance, Cybersecurity Guidance	Cloud Native, Cloud Managed, Cloud Native





C3BM Integration Challenge

C3BM must develop and execute a comprehensive strategy to address three distinct, but interdependent, integration challenges.





Guiding Philosophy

A complex system that works is invariably found to have evolved from a simple system that worked.

The inverse proposition also appears to be true: A complex system designed from scratch never works and cannot be made to work. You have to start over, beginning with a working simple system.

John Gall, Systems Theorist
General Systematics, 1975

Manage complexity with a ruthless focus on specific operational outcomes.