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Presented at the Department of the Air Force Information Technology & Cyberpower (DAFITC) 2026, Montgomery, AL

Track 2, The Future of Cyber: Automated, Agile, and Assured

BREAKING THE SILOS: A DATA-CENTRIC MBSE CYBERSECURITY MODEL FOR THE DAF BATTLE NETWORK:

How a Common Reference Architecture Across C3BM Programs Delivers Automated, Continuous Authorization from Enterprise IT to the Warfighter

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Scott Heitmann (DAF CTO)
Joe Staier (AFLCMC/HNI)
Michelle Campbell (PACAF CTO)
Amanda Koons-Stapf, SAIC, Chief Engineer

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THE KILL WEB HAS ONE JOB



Every Arrow Crosses the Program Boundary

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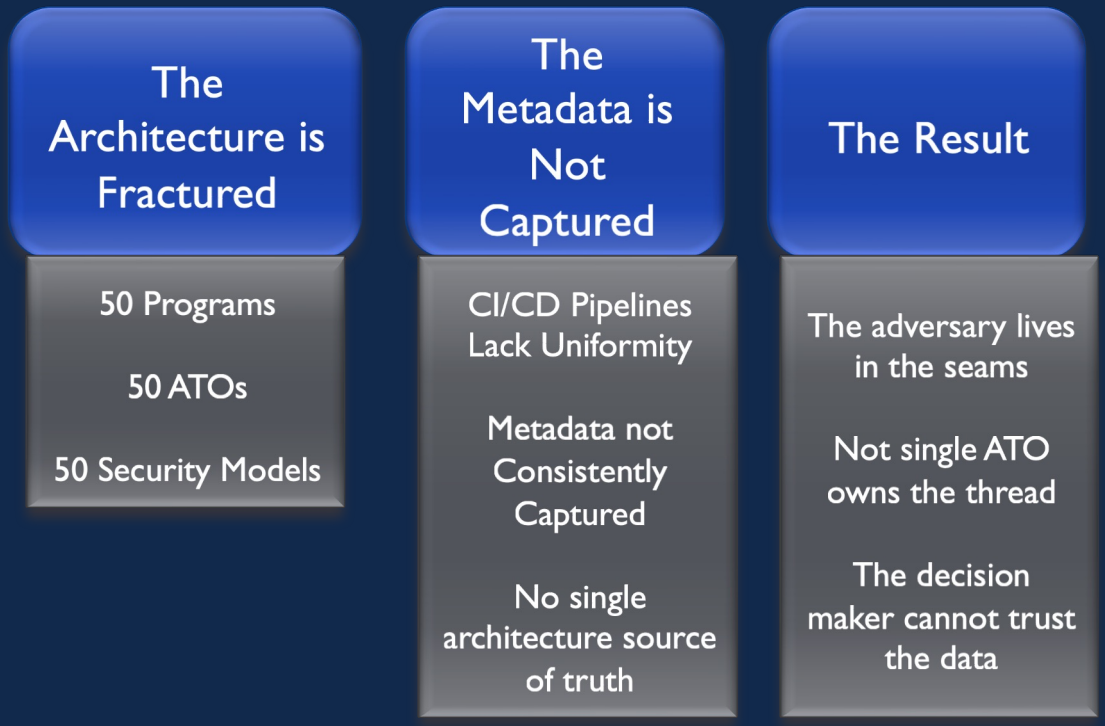
THE ECOSYSTEM CHALLENGE

The DAF Battle Network is not a System

It is an Ecosystem

50+ Programs of Record
Multiple Concurrent Mission Threads
Cascading Effects Across Domain Boundaries

We are securing programs.
We need to secure the Ecosystem



This is not a compliance problem.
This is a combat power problem.

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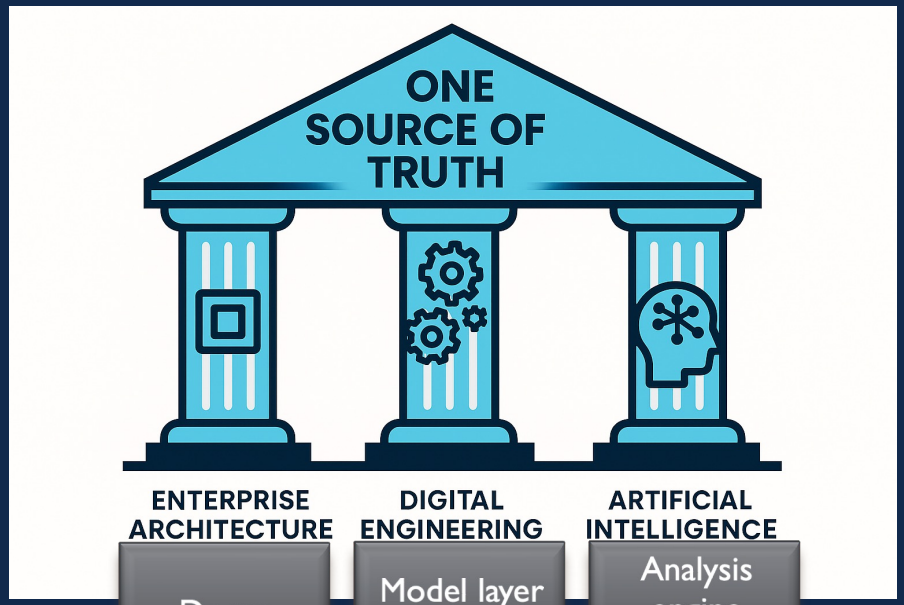
FOUNDATION: EA + DE + AI



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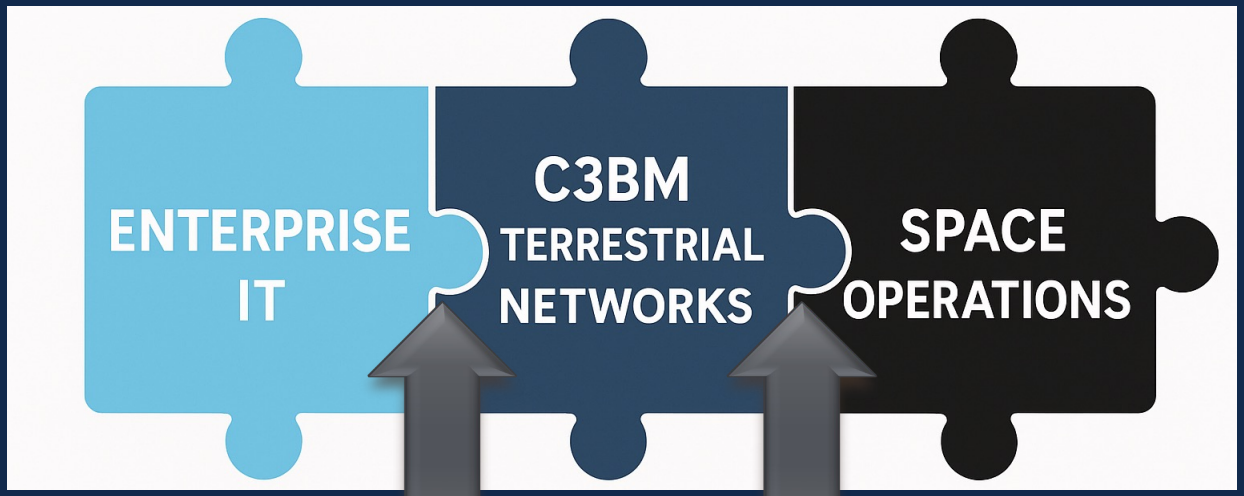
THE FRAMEWORK



Interface – Who Owns This?

CENTRALIZE	DISTRIBUTE
Global consistency Policy Cross-boundary conflict resolution	Local speed Resilience Autonomy Innovation

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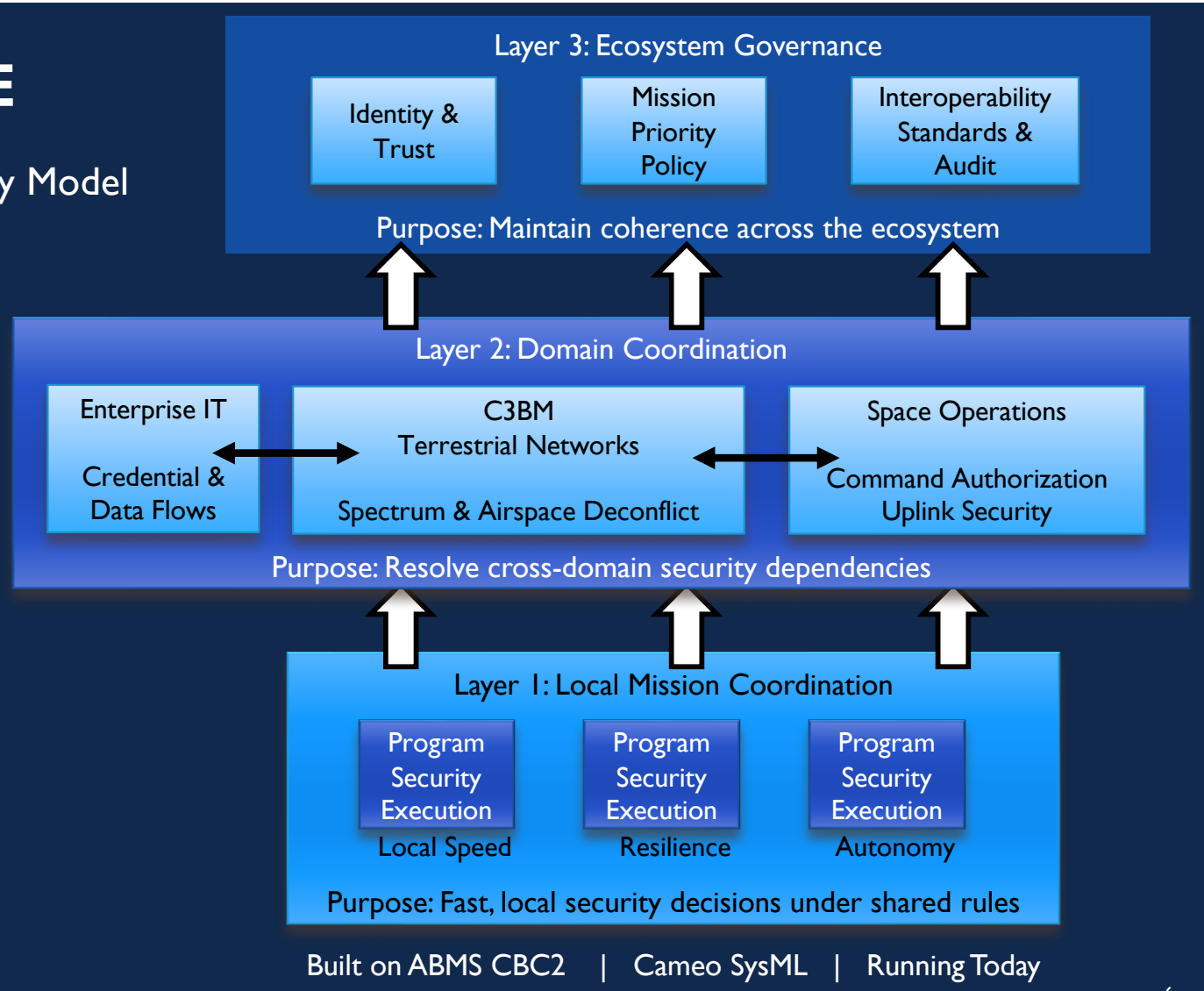
THE PROTOTYPE

The Federated Kill Web Security Model



Built on ABMS CBC2 | Cameo SysML | Running Today

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THE RESULTS

How Long is your ATO Package Taking?

Manual:
Weeks to Months

Model-Based:
Hours to Days

Can You Show the Attack Path from Business Systems to Your Most Critical Asset?

Manual:
Reviewed One Domain at a Time – Cross Domain Paths Missed

Model-Based:
Cross-Domain Paths Visible Across All Domains Simultaneously

How Long Between a New Threat and an Updated Assessment?

Manual:
Scheduled Cycles – Quarterly or Annual

Model-Based:
Continuous Automated Query Every Update Refreshes the Posture

If these questions can't be answered today, the model will provide automated results you can quickly review and validate.

Prototype running on ABMS CBC2 – testing ongoing

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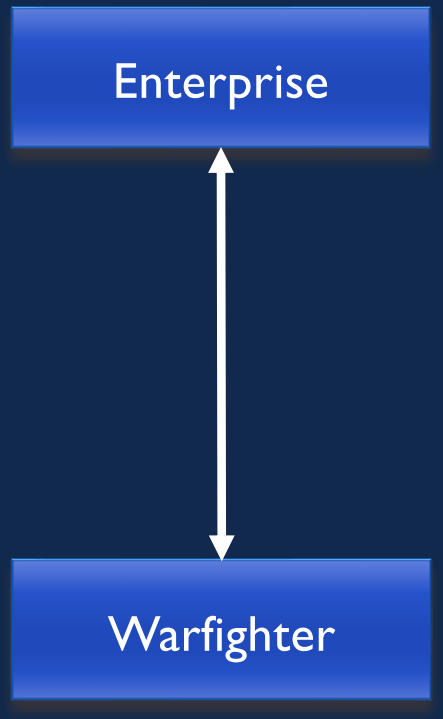
MEET THE PANEL

- Scott Heitmann, DAF Chief Technology Officer
  - Enterprise Technology Strategy
- Joe Staier, AFLCMC/HNI
  - Acquisition & Program Exectution
- Michelle Campbell, PACAF CTO
  - Operational & Theater Perspective
- Amanda Koons-Stapf, SAIC, Chief Engineer AF Market Systems
  - Technical Implementation



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CALL TO ACTION



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