



DAF Enterprise Modeling and Simulation Overview



DAF Enterprise Modeling and Simulation

Effectively synchronize Air Force (USAF) and Space Force (USSF) investments in M&S from an enterprise perspective.

Providing an environment where modeling and simulation developers and users can share data, resources, and tools within a standard framework and common approach.

Implementing the DAF M&S Strategy advances the CMSO strategic priorities and unifies cost savings and efficiencies across the enterprise

Implementing a unified information technology architecture and logical ecosystem provides M&S tools and required data across the DAF among M&S-heavy functional areas of the lifecycle and to the warfighter

CMSO Strategy Focus Areas

PGL 19-07 States: Through CMSO the DAF will synchronize previously disparate investments in M&S. Accomplish initial aspects of policy development, workforce development, business strategy, standards and architecture establishment, direct stakeholder support, and monitoring verification-validation-accreditation.

CMSO Has Identified the following focus areas to accomplish their mission

Policy

Ecosystem and Architecture

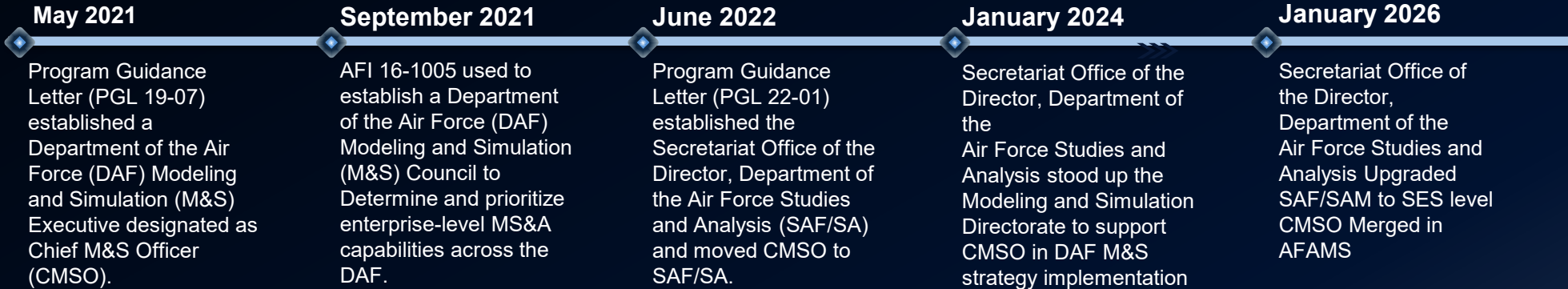
M&S Standards

Community Outreach

Workforce Development

Knowledge Management

Fiduciary M&S Investment Strategy



Strategy Implementation

Policy and Governance

Update and define policy to drive M&S Strategy. Manage and Chair M&S Council

Current Tech Solutions

Manage and modify current enterprise level architectures and software

Future Tech Solutions

Research, Manage, incorporate and develop techniques, architectures and software for enterprise use

Standardization

Define usability standards for model management and lead creation of approved threat models for use across the enterprise

Collaboration

Cross service partnerships and international collaboration and agreements

Workforce Development

Identify and create M&S Workforce certificates / professional development

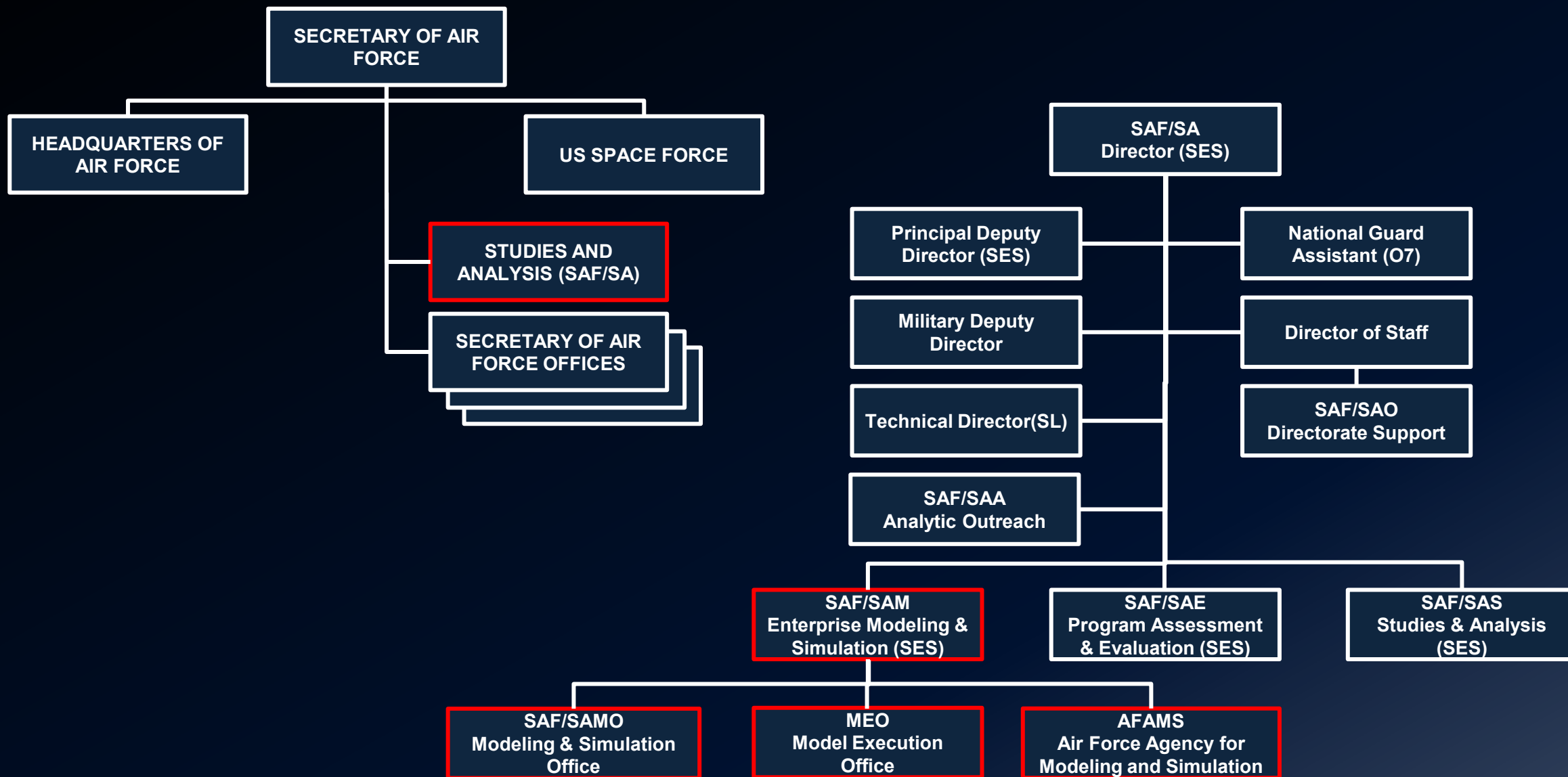
Fiduciary

Identified / consolidated efficiencies with partners on the Enterprise Digital Environment POM Submittal

Widening the circle of strategic M&S participation is crucial to ensure CMSO acts in the best collective interests of the M&S enterprise and its stakeholders.



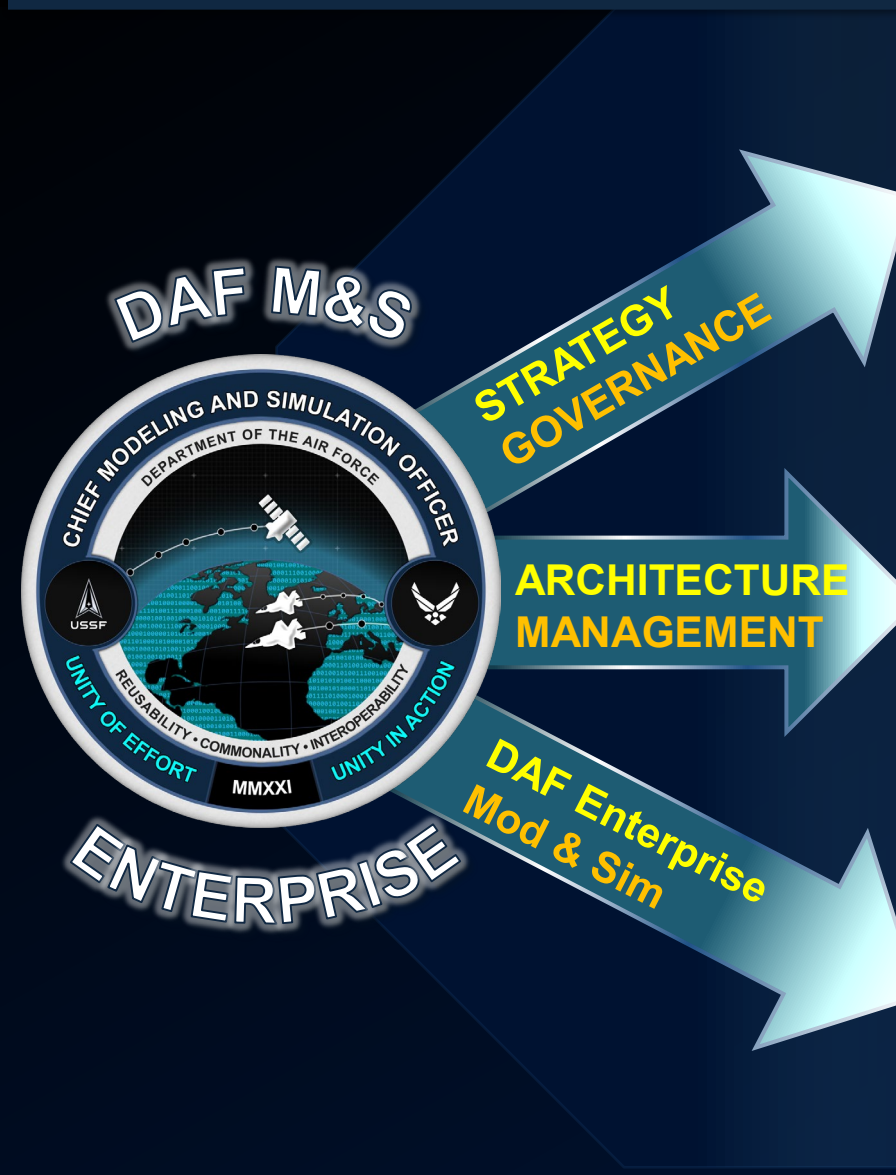
SAF/SA Organization Structure





SAF/SAM: DAF Enterprise Modeling & Simulation

Integrate DAF M&S Development and Operations Capabilities



SAMO

CMSO Execution Staff

- Provides Policy oversight
- Provides Finance / Resource oversight
- Interfaces with DAF, Joint and International partners



MEO

Enterprise Decision & Development Support

- Managing advanced modeling, simulation, and wargaming
- Interfaces with AFRL as SAM liaison



AFAMS

DAF M&S Enterprise Front Door

- Leads the M&S Council to prioritize requirements and drive enterprise solutions
- ID and addresses enterprise and M&S capability gaps
- Coordinates integration mechanisms to unify DAF efforts



Establish Enterprise Foundation Through the Integration of DAF M&S Development and Operations Sites



DAF M&S COUNCIL

Managing DAF Requirements, Pain-Points, and Inputs to Enterprise tools / architectures



Use Common Terms in CMSO
(Provides Unity of Effort)

Tools
Data
People
Processes
Partnerships
Infrastructure



DAF M&S Council
(DAFMSC)
[Fully Distributed]

Strategic Top-Down Direction



Reporting

Technical Approaches
(Solutions)

MAB
(Mission Advisory Board)
Mission Focus
[Community Reps, Additional Duty]

DAF M&S User Engagement Hub
DAF wide needs & gaps focus
[@AFAMS, Orlando, FL]

MAC
(M&S Advisory Committee)
execution/solutions focused
[@MEO, Dayton, OH]



6 Teams

Analysis
Test
Training

User Needs



Integrated Ops



(Develop Integrated Technical Strategies)

DAF M&S Community of Interest



Needs that cross Functional Areas
Standards COI, etc.
[@AFAMS, Orlando, FL
w/Community Participation]



Some MAC LOEs coordinated in a CFT
i.e. intel



M&S Enterprise Pain Points

1. Lack of a current DoD strategy for **simulation interoperability**
2. Insufficiently trained and knowledgeable **M&S Workforce**
3. Insufficient **authoritative data sources**, insufficient ability to **discover** and **share**
4. Insufficient **collaborative body for M&S resource** decision making and problem solving
5. Lack of **cyber / EMS / Multi-Domain Operations / Space models**
6. Lack of adequate **standards program**
7. Lack of **guidance and tools** to better **integrate all M&S with Digital Engineering Infrastructure**
8. Insufficient **Multi-Level Security (MLS)** guidance for simulation events
9. Lack of a **DoD-wide repository** for models and simulations
10. Lack of **an integrating infrastructure** to facilitate **Discovery, Accessibility, and Reuse of Models and Simulations** to better support the M&S community
11. Insufficient agile/responsive **Risk Management Framework (RMF) process (permissions)** to quickly stand up **LVC simulation events**
12. Lack of a **resourced and empowered centralized organization** that can make tangible decisions / develop **interoperability solutions** for implementation across the Services

General Officer Steering Group direction to tackle pain points