



# Simulator Common Architecture Requirements & Standards (SCARS)

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Disclaimer: The information provided herein represents the Government's best understanding of the SCARS strategy as of the presentation date. This information should be considered preliminary and subject to change.



# Overview

- Points of Contact
  - SCARS Government IPT
  - Problem Statement
  - Mission Statement
- SCARS and LVC
- SCARS Next Steps
  - Key Takeaways



# SCARS Points of Contact

Ms. Linda Rutledge, PEO/ACS

Col Daniel “Ghandi” Marticello, AFLCMC/WNS

Col Philip Carpenter, AFLCMC/WNS

Col Steven Beyer, AFLCMC/WNS

Lt Col Joshua Lane, AFLCMC/WNS

Mr. Heath Morton, AFLCMC/WNS

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# SCARS – Problem Statement

Sustainment of multiple unique simulators and training devices is becoming cost-prohibitive in an increasingly demanding cyber environment

Differing underlying hardware/software configurations  
Individual platform baseline management  
Multiple program obsolescence states



***SCARS will be a key enabler of the training systems cyber security framework.***





# Mission Statement

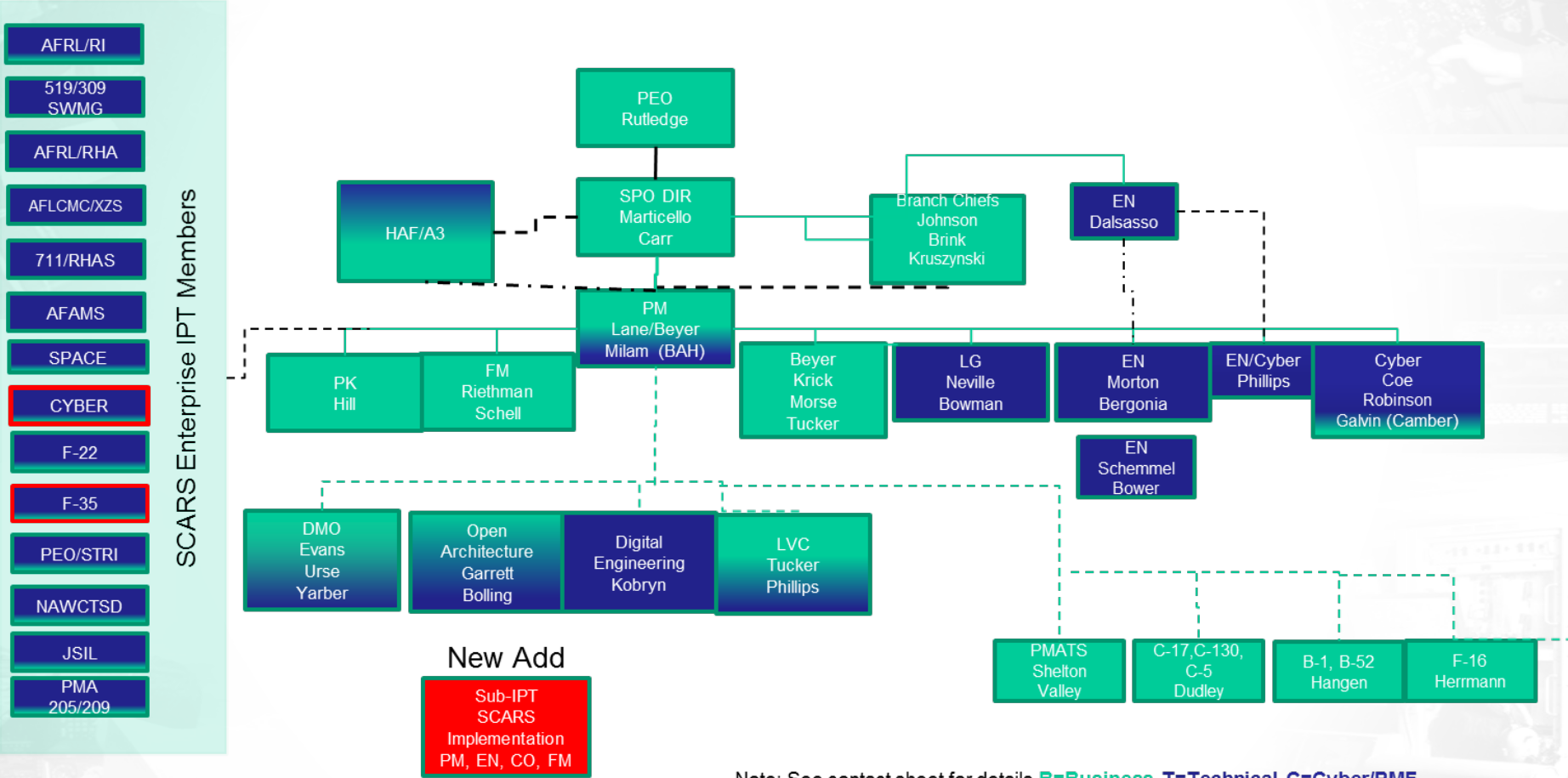
Establish a common open system architecture for AF (air) training systems across 40+ systems that enables and ensures:

- An enhanced cyber security posture
- More efficient sustainment of 40+ unique simulator baselines
- A cyber-secure sustainable virtual-constructive (VC) training system capability
- A key foundational infrastructure for Live-Virtual-Constructive training

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# SCARS Org Chart & SCARS Enterprise IPT



As of 28 Feb 17

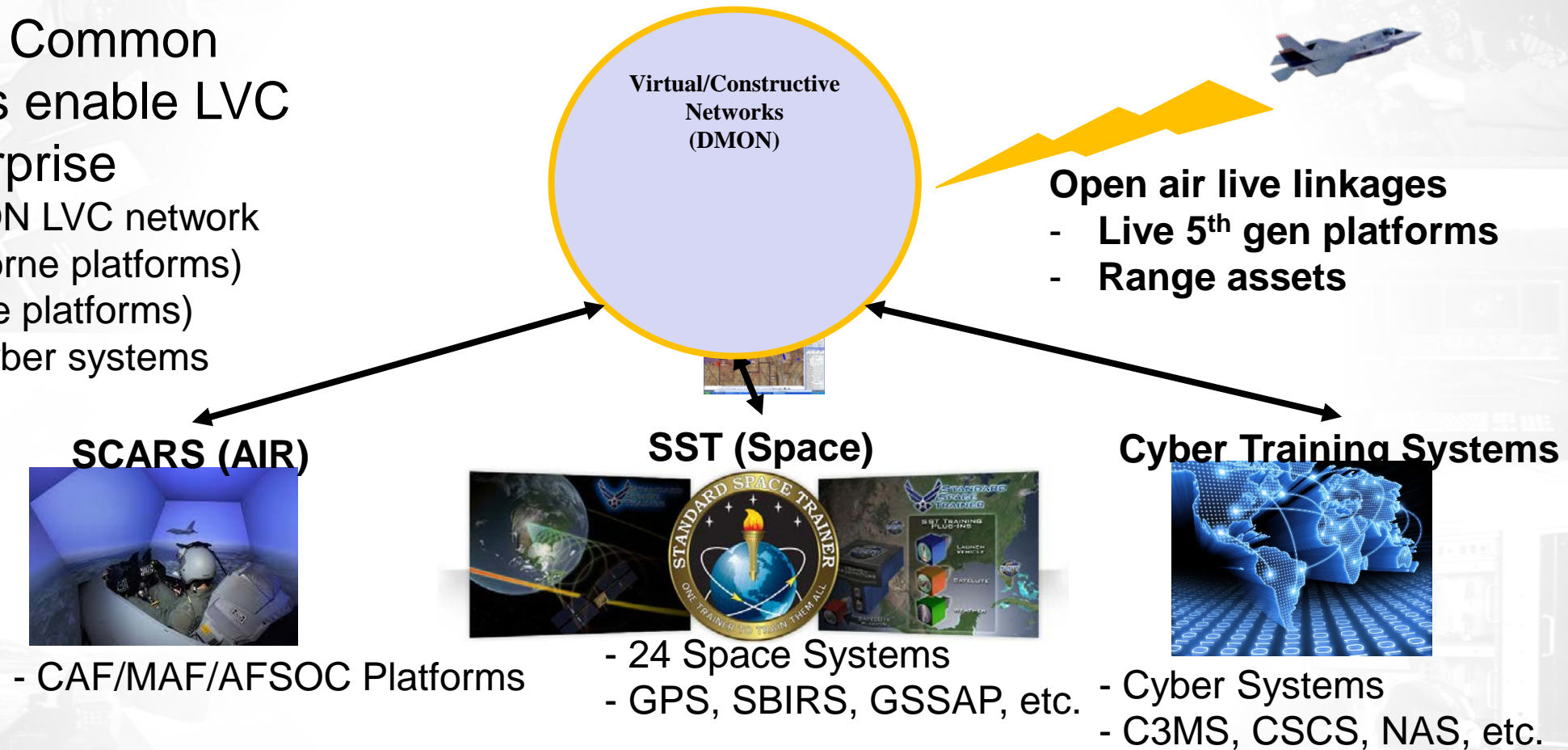
Note: See contact sheet for details **B=Business, T=Technical, C=Cyber/RMF**  
Dashed lines = coordinating relationships

# SCARS & LVC

## Common Architectures

Family of Common architectures enable LVC enterprise

Common DMON LVC network  
 SCARS (airborne platforms)  
 SST (space platforms)  
 Common cyber systems



***The Operational Training Enterprise Must Move Towards Greater Commonality Across All Domains (Air, Space, Cyber)***





# SCARS Next Steps

- FY17 Focus initial effort on studies and targets of opportunity
  - Leverage existing commons and standards to maximum extent
    - Potential: Image generators, databases, network and cyber elements
  - Studies and characterization; Data collection and analysis
    - Reference Architecture – RFP shaping
  - SCARS industry day - 4<sup>th</sup> quarter FY17
- FY18
  - Follow on studies and pathfinders to refine SCARS
  - Leverage Targets of Opportunity with ongoing obsolescence and CLS activities
    - SCARS incremental conversions via planned contractual actions
  - Draft RFP early FY 18
  - RFP release for SCARS Increment 1 effort – targeted third quarter FY18
- FY19 Contract Award
  - Architecture/Standards Development & Standards Maintenance
  - Conversion of up to 3 systems including initial CLS/TSSC





# Key Takeaways



- Acquisition planning began: Jan 2016
- SCARS is enterprise standards-based activities to address cyber resilience
  - Implemented via platform training system contracts
  - Focused on enterprise efficiencies and effects
  - Adhering to key tenants of BBP 3.0
  - Addressing Open Architecture principles
- SCARS funded in FY18-22
- Ongoing Industry engagement
  - Potential studies
  - Feedback opportunities with draft RFP
  - O&I governance
- Estimated draft RFP: January 2018
- Estimated RFP: May/June 2018
- Estimated Award: Early/Mid FY 19
- Industry will obtain updates via FBO

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# Questions?