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AMERICA: LIVING FREE, SECURE, AND PRODUCTIVE



2016

IN A CYBER WORLD

Headquarters U.S. Air Force

I n t e g r i t y - S e r v i c e - E x c e l l e n

c e AF Chief Information Security Officer (CISO)



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U.S. AIR FORCE

CISO Mission Statement

Transform the Air Force from reactive to proactive cybersecurity through policy, processes, and strategic communications...and Cyber Secure Airmen.

Implement and enable a cybersecurity governance structure to inform senior leaders of cybersecurity challenges leading to agile, effective, and informed decisions regarding cybersecurity risk mitigation.



Continuing journey
(work in progress...ever
adapting and constantly
improving)





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CISO – What Do I Focus On?

“It’s about flying, fighting and winning.”





CISO Guiding Principles



Enterprise Perspective



Education on the Risk
Share Information
Connect the Dots
Make Decisions





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My Approach for Cybersecurity

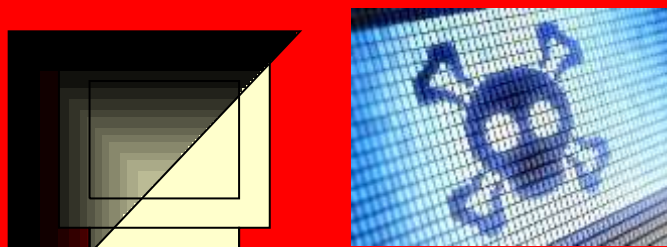
Compliance Mindset

Policy Compliance
Performance Optimization
Configuration Baseline and Standardization

Administrator Perspective



Adversary Mindset



Hacker Perspective

Identify Vulnerabilities
Identify Intruders
Assess Defensive Response

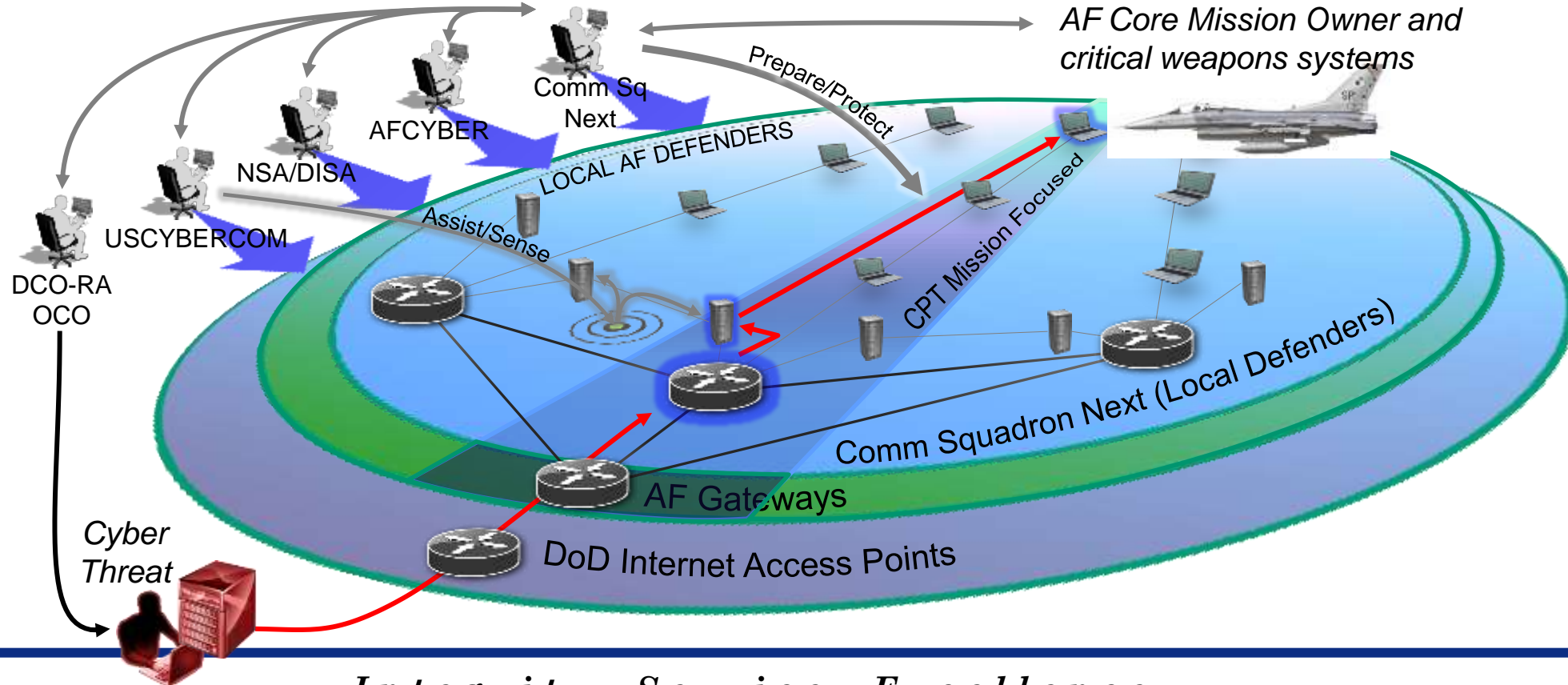
New Cybersecurity Paradigm: You need both mindsets on your mission systems 24/7



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OV-1 of AF Cyber Defense-in-Depth (Cyber Mission Assurance of AF Core Missions)

- AFCYBER leverages static and active defenses to identify, mitigate and remediate cyber vulnerabilities and detect/defeat cyber threats.
- USCYBERCOM, JFHQ DODIN, NSA, Cyber Protection Teams, AFCYBER, and Comm Squadron Next **work together** to defend AF Core Missions
- AFCYBER currently defends **Key Terrain** & critical assets for AF Core Mission (Air, Space, C2)



Integrity - Service - Excellence



CISO Framework and Priorities

1. **Enterprise Approach:** Sets **enterprise priorities, guidance and policy** on cybersecurity for the Air Force...for Core Missions and the information technologies that enable those missions.
2. **Team:** Orchestrates the **AF Team approach** to field cyber-resilient capabilities and enhance the protection of critical warfighter/business information with public and private industry for enterprise cybersecurity and coordinated response actions.
3. **Educate:** Trained and educated **CyberSafe Airmen who understand** cybersecurity implications and linkages to mission assurance in, through and from cyberspace.
4. **Innovate:** **Innovative approaches** to critical cyber defense and resiliency challenges for air, space and cyberspace.
5. **Manage Risk:** Enable executive discussions on **risk management** to protect Airmen, Core Missions and to defeat adversaries' effectiveness.



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Enduring Cybersecurity – Missions, Functions & Tasks



SAF/CIO A6
Lt Gen William Bender
Deputy CIO: Mr. Bill Marion (SES)

Chief Information Security Officer
Mr. Peter Kim (SES)

JIE Governance

ITGEG / ITGEB / WFI - GOSG

Information Dominance Flight Plan

Cybersecurity Program

Cybersecurity Oversight

- Effective RMF Performance**
- Implement DoD's Cybersecurity Program
 - Establish risk executive (function) for comprehensive, AF-wide risk management
 - Establish risk management roles/responsibilities
 - Implement risk management strategy
 - Oversee consistent enterprise risk mgt activities
 - **Manage threat & vulnerability information**
 - Lead Cybersecurity Forums (AFCTAG & AFRMC)

Risk Posture

- Policy & Strategy Guidance**
- Develop/maintain policy & guidance (Risk Management Framework, COMSEC, TEMPEST, PKI, COMPUSEC, Crypto/Mod, etc.)
 - Review/approve Cybersecurity strategies, H/VH, PIA and AFDAMO packages

Cybersecurity Support

Culture

- Shape Air Force Culture**
- Develop recurring & robust cybersecurity training
 - Inject standard cyberspace curriculum into all accession programs
 - **Inform the force about realistic cyber threats**
 - Develop strategic risk understanding (IDFP)

Holistic Cybersecurity Strategy

- Develop AF Cybersecurity strategy
- Cybersecurity architecture liaison
- Gather aggregated risks (Balanced Scorecard, Enterprise Dashboard, Metrics, etc.)
- Support implementation of advanced defensive tools on Air Force networks
- Support improved protection of weapons and mission systems
- Secretariat AO Summit & Cybersecurity Scorecard

Cybersecurity Coordination

Core Mission Liaisons

- Experts on Key Cyber Terrain for Core Missions**
- Oversee compliance with cybersecurity program within info systems, PIT-control systems, **threat analysis**, policy, PPBE
 - Transform mission needs into achievable cybersecurity requirements

Mission Assurance

- Fly, Fight and Win**
- Assess cybersecurity posture
 - Oversee requirements within core missions and capabilities (RGM, ISR, C2, AS, SS, CS, GS, ACS)

- Criteria**
- ✓ Does not duplicate work
 - ✓ Spans entire AF



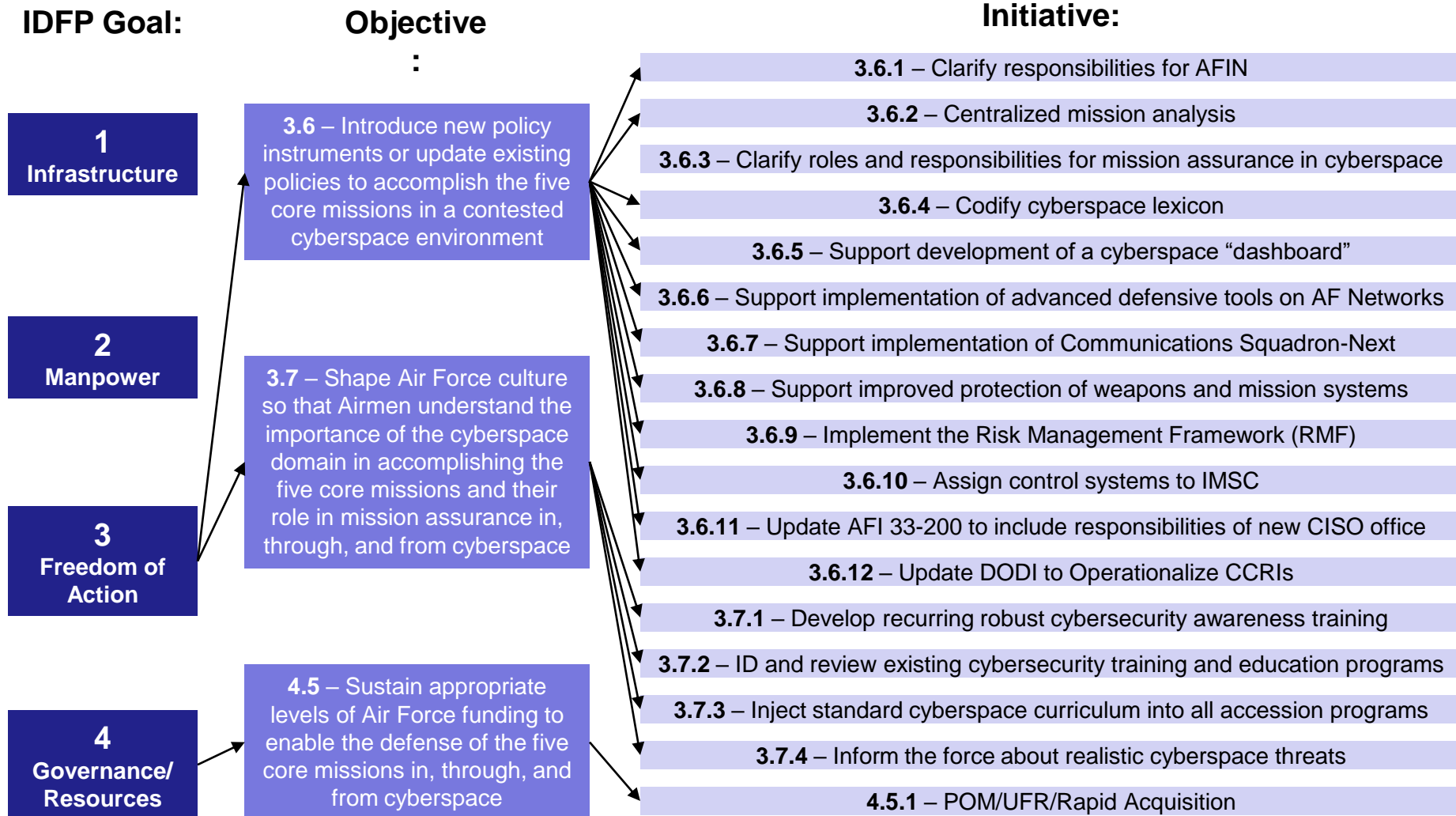
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CISO Initiative Linkages



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To ask questions during or after the presentation, please email them to:

AFITC2016QA@gmail.com

Your questions will be read aloud for the audience and speaker

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