Lines of Effort (LOE) and Supporting Objectives

LOE 1: Identify and address aviation cybersecurity risks:
- Define the methodology for identifying and analyzing aviation cybersecurity risk
- Establish scoring mechanism for prioritizing aviation cybersecurity risks
- Perform risk assessment and support interagency mitigations initiatives

LOE 2: Improve aviation cyber resilience:
- Identify essential mission functions that must be sustained for a resilient aviation ecosystem
- Identify systematic interdependencies between and within aviation stakeholders
- Conduct cyber exercises utilizing scenarios focusing on threats to aviation ecosystem resiliency

LOE 3: Improve aviation cyber information sharing, coordination, and collaboration:
- Develop Cybersecurity workforce awareness and training
- Establish a shared repository and collaboration site
- Build a reference library for aviation cyber guidance, norms, best practices and standards

LOE 4: Ensure on-going effectiveness and value of the ACI:
- Implement ACI governance, working group and COI structure
- Develop an ACI Communications Plan
- Define performance metrics for ACI

CY2021 Priorities & Initiatives

- Identify and execute aviation cyber risk mitigation initiative
  - Identify and execute JI-GATOR follow-on project to reduce cybersecurity risk and improve resilience
  - Identify and execute an aviation cyber resilience initiative (e.g., PNT)
  - Grow the N-FACTOR to support public-private sector cybersecurity risk reduction and resilience RDTE initiatives
    - Co-sponsor and execute an aviation cyber 1553/429/629 bus experimentation “rodeo” to advance ACI RDTE
    - Establish Aviation Cyber Tabletop Series (The Wright Brothers Series)
    - Establish an Interagency Aviation Cybersecurity Training Program using existing cyber training opportunities
    - Conduct ACI Annual Summit
    - Define performance metrics for ACI

ACI Tri-Chairs

- DHS
- DOD
- DOT/FAA

Mission

To reduce cybersecurity risks and improve cyber resilience to support safe, secure, and efficient operations of the nation’s Aviation Ecosystem
Strategic Objectives

- Identify, assess and analyze cyber threats, vulnerabilities, and consequences within the Aviation Ecosystem through research, development, testing, and evaluation initiatives.
- Engage with Aviation Ecosystem stakeholders on activities for reducing cyber risks.
- Seek potential improvement opportunities and risk mitigation strategies.

Aviation Ecosystem*

Aviation Ecosystem is defined as in the National Strategy for Aviation Security (NSAS), Dec. 2018

Authorities

ACI is chartered by the Secretaries of Defense, Homeland Security, and Transportation.

Community of Interest

The ACI Community of Interest is comprised of stakeholders from across the Aviation Ecosystem.

ACI Working Groups Key Areas

- **Exercise**: Develop, support, and deliver aviation ecosystem cyber security and resilience exercises.
- **Research & Development**: Improve interagency aviation cyber research and development programs for future capabilities.
- **Testing & Assessment**: Identify, support, and develop aviation cyber test & assessment initiatives.
- **Information Sharing**: Increase interagency and aviation ecosystem information sharing opportunities.
- **Policy & Standards Coordination**: Improve and standardize interagency aviation cyber policy and standards.
- **Risk Mitigation**: Improve and standardize cyber risk management programs and projects across the aviation ecosystem.
- **UAS Cyber**: Reduce cyber threats to and from UAS systems and improve UAS cyber resilience.
- **International Coordination and Collaboration**: Increase international coordination and collaboration for aviation cyber programs.
- **Aviation Transponder**: Improve aviation transponder data confidentiality, integrity and availability vulnerability mitigation.
- **Airports**: Improve cyber risk reduction and resilience initiatives, and engagement with airport CISOs.
- **Airlines & Airlift**: Enhance information sharing efforts to identify and reduce cyber-risk to airlines and airlift operators, and improve cyber resilience.

ACI: Reducing cyber risks and improving cyber resilience of our nation’s Aviation Ecosystem.