



Asia-Pacific
Economic Cooperation

Advancing
Free Trade for Asia-Pacific
Prosperity

Cybersecurity in the Aviation Ecosystem: U.S. Approach

TPTWG45 – AEG, Agenda Item 5.1

Presented by
United States

What is the Ecosystem?

Objects include:

- Aircraft
- Airlines
- Airports
- Aviation Operators
- Actors

Phases of Flight



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Planning

- Engineering Design, Original Equipment Manufacturer (OEM), Reservation System, Scheduling/Planning, Financial Systems, Airline Staff

Before the Flight

- Baggage System, Passenger Screening, Ground Control, Inspection, Airport & Airline Staff, Electronic Flight Bag (EFB)

During the Flight

- Avionics, Cabin Systems, Passenger Devices, Point of Sale (POS) System, Terminal, Enroute, and Oceanic Control, Air Traffic Management

After the Flight

- Ground Support Systems, Baggage System, Maintenance, Certification, Ground Control, Inspection, Airport Staff

Responsibility



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Oversight

- Engineering Design, Manufacturing, Flight Test

Direct

- Certification, Inspection, Terminal, Enroute, and Oceanic Control

Shared

- Scheduling, Planning, Infrastructure, Ground Control

No Involvement

- Reservation, Financial, and Baggage Systems

Engagement



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United States

- Internal FAA
- Public Sector (US Government)
- Private Sector

International

- International Civil Aviation Organization (ICAO)

What are the Greatest Risks?



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Technical (Related to Technical or Tactical Operations)

- Systems
- Data flows

Non-Technical (External Factors and Constraints)

- Standards
- Information Sharing
- Authorities

Possible Way Forward



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- Continued Information Sharing
- Creation of Cybersecurity Task Force?

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