

SESSION ID: SBX1-W2

Enhancing Aviation Cybersecurity Capacity

...or How I Learned to Love a Hacker



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Overview

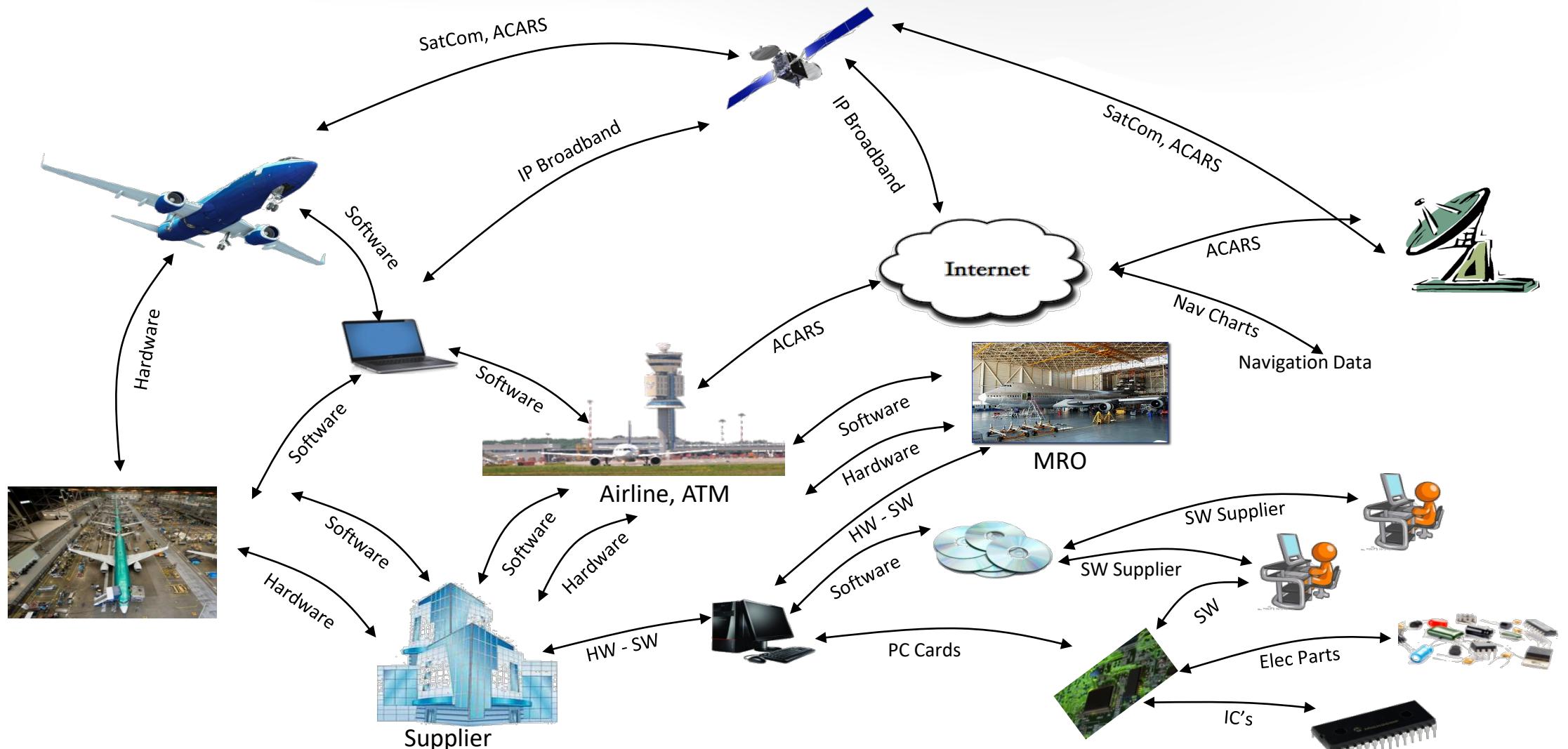
- Align Perspectives
- Perception vs Reality
- Leveraging Additional Capacity

Apply

- Build...Maintain...Preserve Trust
- Who can help
- Similar approach



Align Perspectives – Aviation Ecosystem



Align Perspectives – Vulnerabilities & Threats

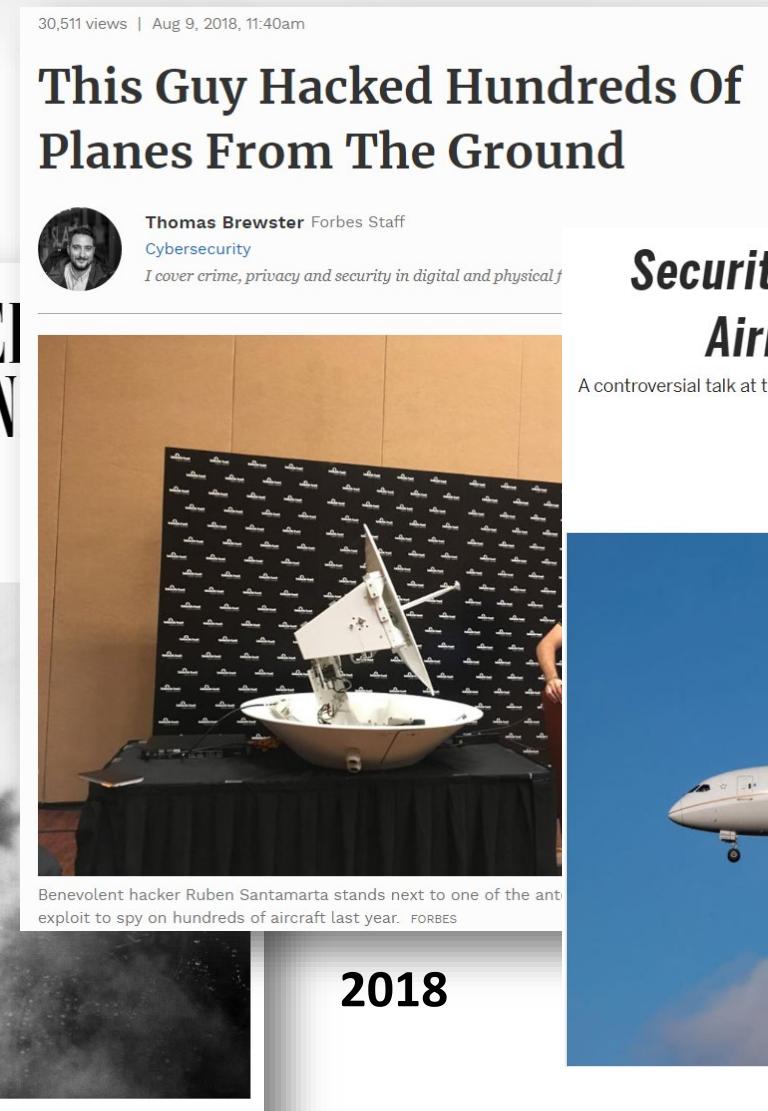
RSA[®]
C
Sandbox

- Most Dangerous vs Most Likely
 - That's really bad, but not likely to happen
 - That's not quite so bad, but it happens every day
- My Pilot Perspective



Perception

RSA®
Sandbox



T-Rex

Boeing 757 Testing Shows Airplanes Vulnerable to Hacking, DHS Says

By Calvin Biesecker | November 8, 2017

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[Cybersecurity](#), [DHS](#)

CBS EVENING NEWS WITH JEFF GLOR

FULL EPISODES

By KRIS VAN CLEAVE / CBS NEWS / November 10, 2017, 7:24 PM

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Experts working with Homeland Security hacked into Boeing 757



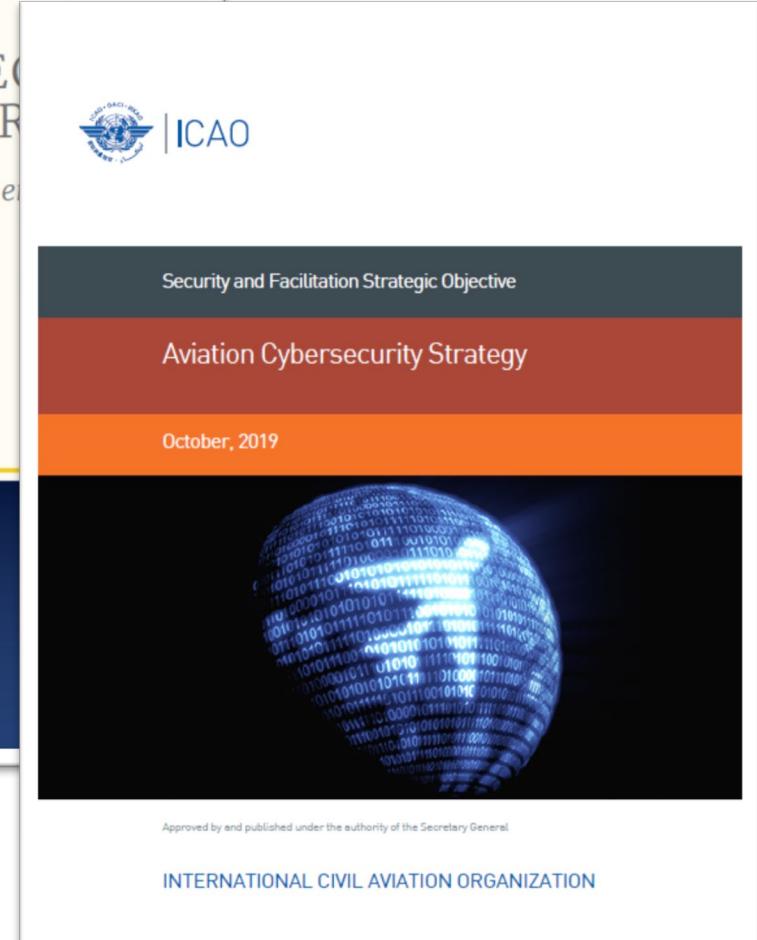
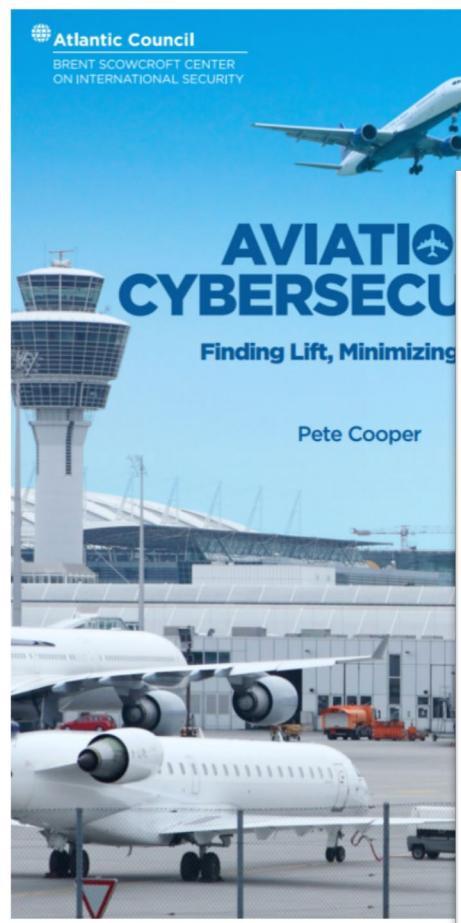
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Reality

RSAC
Sandbox



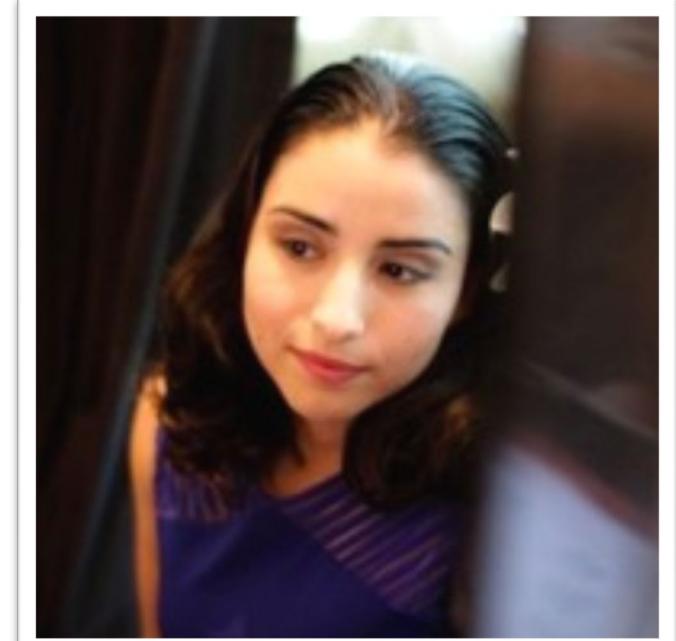
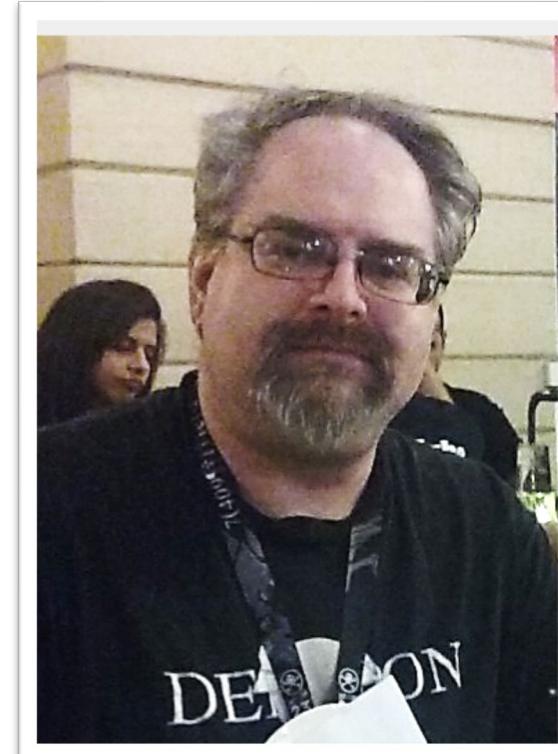
TREX

Perception



Reality

- Hackers = Security Researchers != Criminals/Malicious Actors
- Why do they do these things?



Leveraging Additional Capacity

"The Aviation Ecosystem faces a **complex and diverse set of threats**, and our **adversaries seek to exploit the Aviation Ecosystem** for their nefarious purpose."

A **safe and secure Aviation Ecosystem** that preserves the freedom of operations for legitimate pursuits and promotes **American prosperity** is the desired state."

National Strategy for Aviation Security, 2018

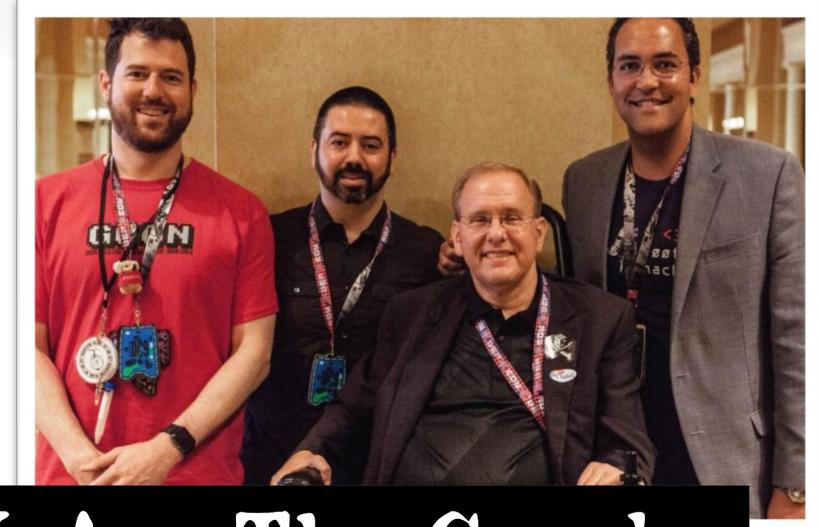
"Aviation is a cornerstone of our global infrastructure and economy. While **passenger safety** is at an all-time high, increasing adoption of new technologies exposes aircraft operators to new risks. The consequences of a cyber attack can have a significant impact on human life and public safety, and is public safety; critical infrastructure must be more robust than ever to withstand economic and international **economy and (inter)national security**."



Leveraging Additional Capacity



A group of approximately 20 people are standing in front of a large, white marble statue of a classical figure, possibly Minerva or Athena, in a grand hall. The statue is mounted on a tall pedestal. The group is diverse in age and attire, with many men wearing plaid shirts. They are posing for a group photo in front of the statue. The background shows a large, light-colored stone building with a high ceiling and recessed lighting.



I Am The Cavalry



- Build...Maintain...Preserve Trust
 - Looking past minor differences and misunderstanding towards the larger goal
 - The flying public's trust
 - Our overall security
- If you're in the aviation industry
 - Understand who else is working on these issues, where you can turn for help, how to overcome perceptions, and engage additional talent
- If you're not in the aviation industry
 - Your situation could benefit from a similar understanding and approach to learning who else you can turn to and how to engage additional help

- Contact Info

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