Cyber Threat and Risks in Aviation Security

Salah Soualhi
Who we are?

- More than forty years of experience in aviation security, with more than twenty-five years in computed tomography (CT).
- More than 90 percent of the world’s top fifty busiest airports rely on Smiths Detection equipment.
- Today, more than 1,000 airports use our products to form the core of their total airport solutions—from checkpoint to hold baggage screening.
Who we are?

• We have more than 4,000 HBS units worldwide—with over 1,300 EDS machines in the United States alone. That’s more than 2,000 deployed CT EDS units in the world.

• We are in more than 70 percent of the world’s 100 largest airports with our integrated HBS networking solution.

• More than 75,000 X-ray systems delivered worldwide in more than 180 countries.

• More than 24,500 explosive trace (ETDs) detectors worldwide.
Current and traditional threat scenarios

Threats of:
- Misconfiguration
- Maloperation
- Information extraction
- Denial of Service

Whether:
- Internal vs External
- Intentional vs accidental
- Local vs remote

“right person to see the right data at the right time”
Embracing disruptive technologies

- Cloud Computing
- Artificial Intelligence
- Greater connectivity
- Greater sharing
- **Better decisions**
Challenges of the future

• Understanding AI decisions

• Sharing outside traditional borders

• Centralised and remote patch/update management
Preparing for the future

- Publish minimum set of product standards for the aviation industry.

- Include Cyber Security performance testing as part of existing product certifications.
Preparing for the future ...

- Develop the minimum specific technical controls to enable centralised and automated remote patching and updates.
- Develop a specification for the format and extent of logging required from systems and how those logs must be shared as standard.
- Develop a specification for use of removeable storage with product and the required level and approach to encryption.
Contact

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