

Heathrow

# Open Architecture for Airport Security Systems Status update

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03.05.2022

10/05/2022





# Open Architecture for Airport Security Systems

## Problem:

- Open Architecture for Airport Security Systems published in July 2020, what next?
  - Aviation security has increased in complexity
  - With many sources of information and new ways to handle and act on this data there is a need for a different approach to exploit this data and enable new solutions. However, today there are limitations on availability of near real-time data and available interfaces to create cross-vendor solutions

## Solution:

- ACI EUROPE's Open Architecture Working Group and EOS are working towards an updated document for publication later in 2022, leading to detailed specifications and definition of roadmaps
  - Open Architecture is a solution to prevent data lock-in, vendor lock-in and costly integration
  - Open Architecture makes data available, enables interoperability

## Results:

- Consensus on ACRIS, DICOS but debate on OPSL versus REST ongoing
  - Open Architecture provides more efficient and flexible means of adapting and responding to emerging threats and technological advances - an accelerated response
  - Open Architecture provides improved operational, business and procurement efficiencies
  - Open Architecture provides foundations for data and outputs to become more easily accessible
  - Open Architecture provides all airport operators a framework around which they can build their security implementations

# Progress and achievements

We have worked hard to promote Open Architecture for Airport Security Systems and have presented at:

- **ACI** World's 28<sup>th</sup>, 29<sup>th</sup>, 30<sup>th</sup> and 31<sup>st</sup> **ACRIS** meetings, **International Airport Review's** Online Summit 2020, **IATA's** Innovation in Security - Workstream #2 100% HBS OSS, **ICAO's** Global Symposium on the Implementation of Innovation in Aviation, Seventy-eighth meeting of the **ECAC** Technical Task Force (TTF/78), Third meeting of the **ECAC** ad-hoc Study Group on Cyber Security, **ICAO's** SSGC/WG-AAD (Working Group on Airlines and Aerodromes), **IET's** (Institute of Engineering and Technology) Cyber Security for Industrial Control Systems conference - De-Risk your SCADA and Industrial Control Systems, **ADSA** (Advanced Development for Security Applications) Workshop 23 - Autonomous Security Systems Virtual Workshop



ICAO



Homeland  
Security  
Science and Technology



ACRIS  
ONE COMMON LANGUAGE FOR DATA EXCHANGE



IET  
The Institution of  
Engineering and Technology



Sandia  
National  
Laboratories



ACI EUROPE's Open Architecture Working Group is currently working on an update to the published Open Architecture or Airport Security Systems. The 3 workstreams (Technical, Testing and Validation, and Commercial Liability and Intellectual Property) wrote reports summarising activity and achievement in 2021.

Encouraging signs from some OEMs on Open Architecture:

- Widespread interest in work to enhance ACRIS - foundational data model
- Native DICOS may become a reality on more CT devices
- Ongoing debate about OPSL versus REST APIs

Ongoing conversations with numerous 3rd parties across industry, academia and governmental have been started