

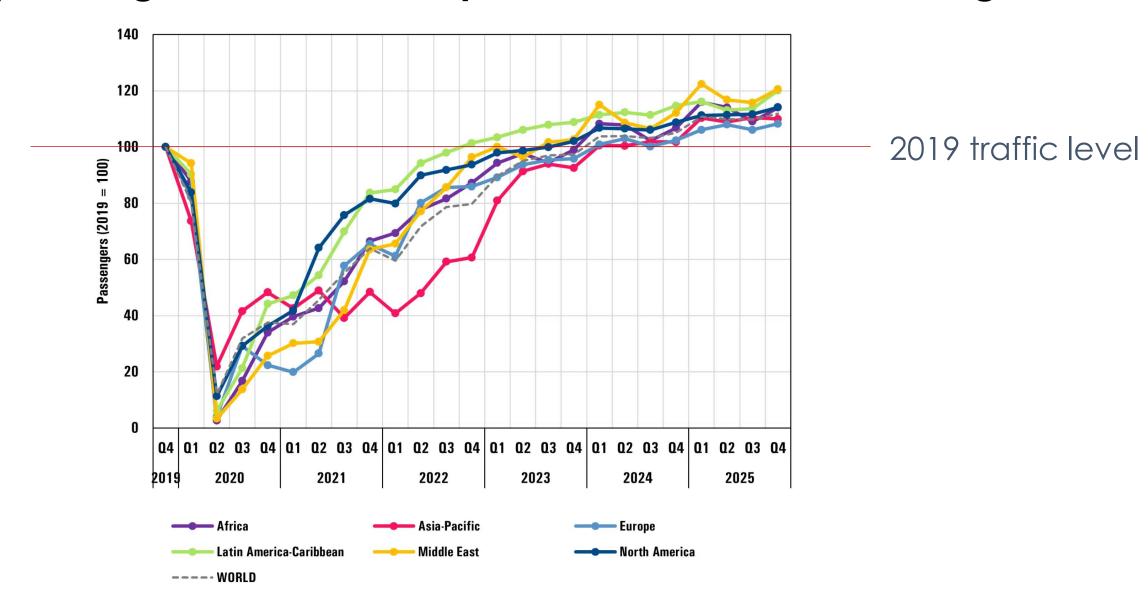


ACI membership & regional offices



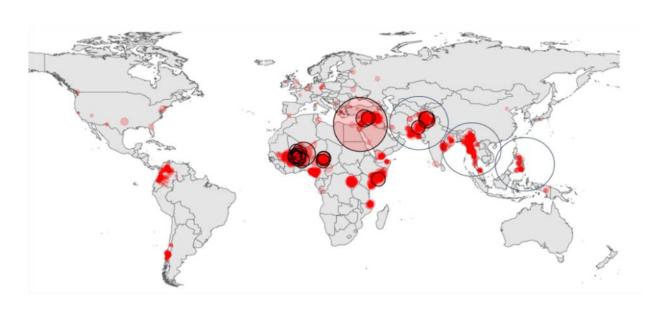


Air passenger traffic has surpassed 2019 level for all regions



Civil Aviation still remains an attractive target for terrorists

Fatal terrorist attacks in 2023 (all types)

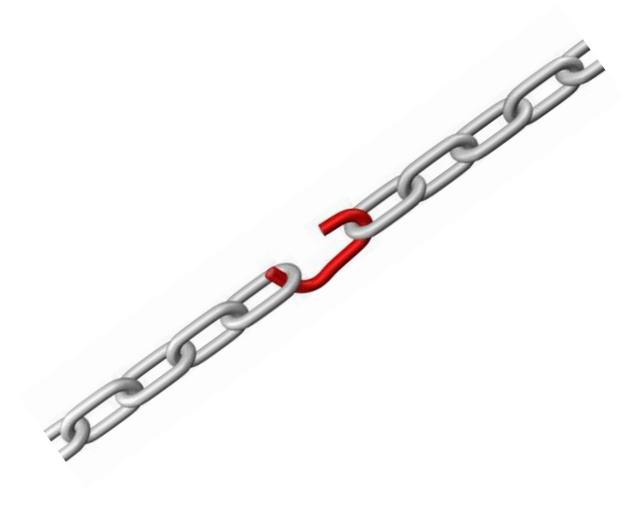


AUIs against civil aviation

- 57 AUIs in 2022
- **60** AUIs in 2023
 - o 8 on aircraft in flight
 - 13 on aviation facilities (e.g. airports)
 - o 1 unlawful seizure
 - o 1 attack using aircraft as weapon
 - o 37 attacks as others



Perpetrators are constantly looking for the weakest link



ACI Regional Aviation Security Committee

38 committee members, representing over 130 individual airports

















香港 HONG KONG INTERNATIONAL





































































Top 4 concerning threats for airports in the region



Drones



Landside

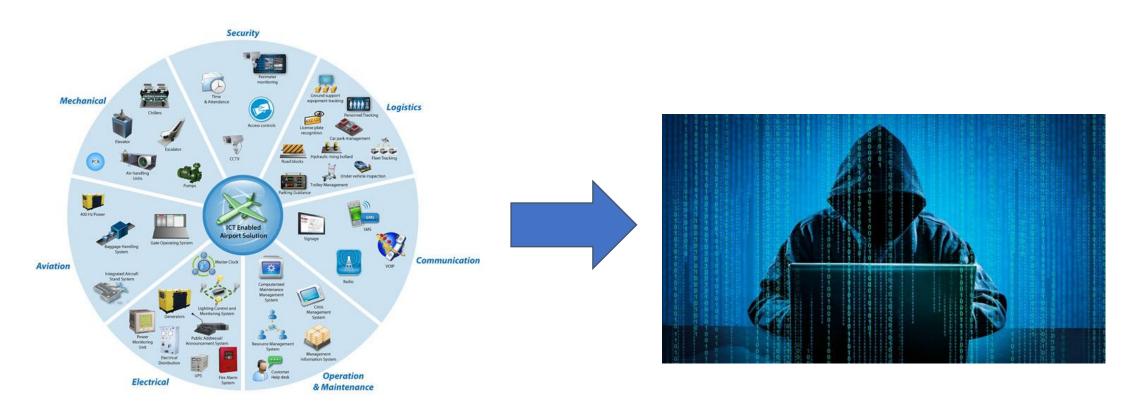


PB-IED & explosives



Cyber

More digitization at airports, higher risks to cyber-attacks



↑ use of technology

↑ exposure to cyber threats

Growing adoption of advanced technologies at airports

Examples of interconnected systems at airports



Security screening systems



Flight information display system



Pax management system



Baggage handling system



Airport operations system



Airport wifi network

<u>Investment priorities for technology</u>



Biometric ID management



Data exchange



5G network



Artificial intelligence



Interactive navigation/wayfinding

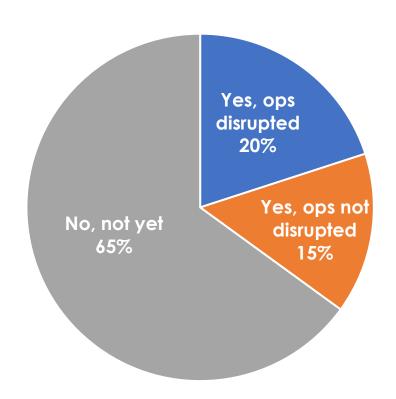


Business intelligence software



Cyber attacks fast becoming a problem for airports in the region

<u>Successful attempt of cyber-attack against airports in APAC?</u>



Common types of attacks against airports



Ransomware



Distributed
Denial-of-Service



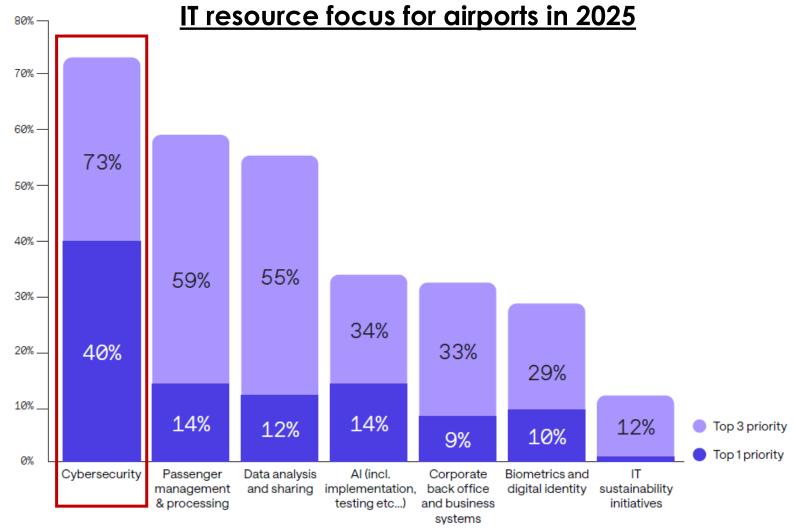
Phishing



Data breach



Airports are putting more emphasis on cybersecurity



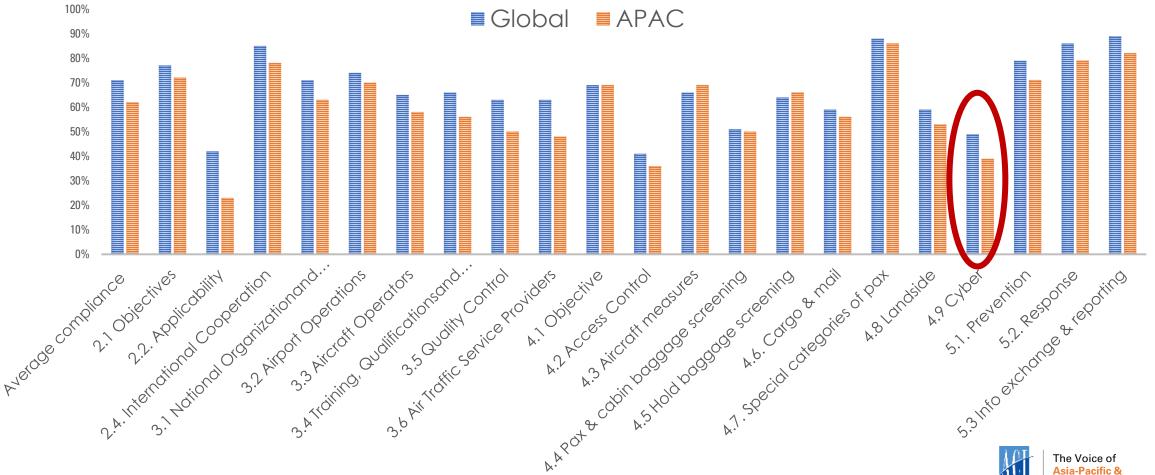


What should airports do on cyber?

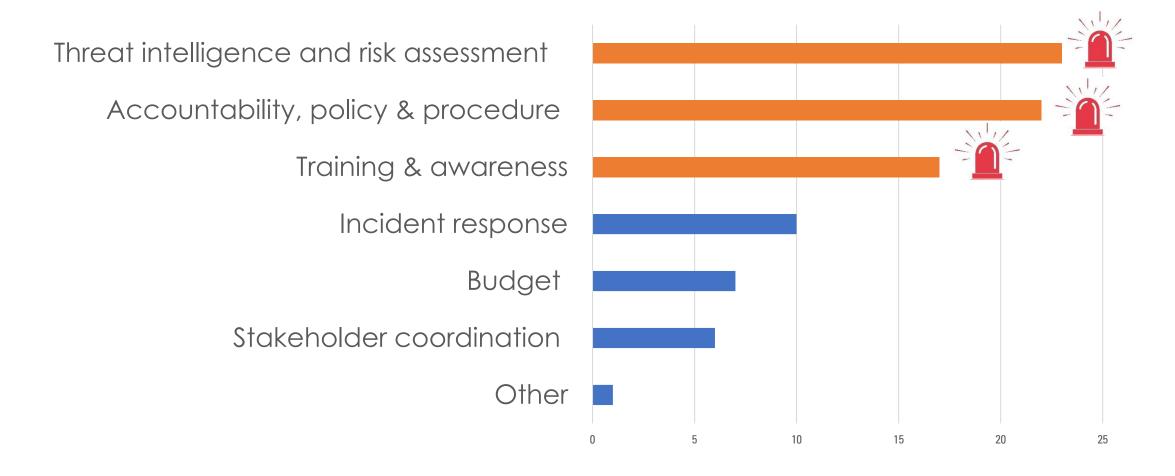
- Identify the risks and vulnerabilities for airport systems
- Protect airport systems from cyber-attacks
- Detect cyber-attacks to airport systems
- Respond and recovery to cyber-attacks for airport systems;
- Quality Control to ensure effective implementation of cybersecurity measures.

Cyber continues to be one of the least-complied areas





Major challenges for airports in cyber protection



Looking closer into the challenges faced by airports in APAC....

Threat intelligence & risk assessment

- Limited intelligence received
- Lack of capability in cyber risk assessment

Accountability, policy & procedure

- Varied accountability structure (e.g. IT-led, security-led)
- Lack of clear cybersecurity plan and policy

Training and awareness

- Lack of cyber experts
- Weak cyber ABC (awareness, behaviour, culture)





Resolution adopted by global airports to affirm commitment to address cyber threats



33rd ACI World Annual General Assembly, Barcelona, Spain, June 2023

33rd World Annual General Assembly

RESOLUTION #4

Affirming airport's commitment to addressing the evolving cyber threats in

The Thirty-third ACI World Annual General Assembly:

Recognizing that the aviation industry heavily relies on interconnected systems and advanced technologies to maintain efficient, safe and secure operations;

Understanding that these systems may be vulnerable to cyber threats that can jeopardize he safety and security of passengers and staff, with damaging economic consequences and potentially significant adverse impacts on public trust and brand image;

Voling that the aviation industry is experiencing a rise in cyber attacks that are becoming nore complex and widespread often targeting sensitive and confidential customer nformation, and critical operating systems leading to unprecedented service disruptions;

Considering that one of the critical vulnerabilities for an organization is the lack of cyber awareness by employees and the absence of an overall organizational cybersecurity rulture:

Emphasizing that the use of proactive risk-based approaches for cybersecurity are crucial neans to safeguard critical infrastructure and systems, protect sensitive and confidential lata, and ensure public trust in the industry;

Understanding that in order to effectively address the growing cybersecurity risks and hreats in the aviation industry, it is essential that all stakeholders involved work together n a spirit of cooperation and coordination;

Recognizing the commitment made by airports through Resolution 1/2018 An effective approach to cyber security and the current efforts undertaken by industry as a whole, and by airports specifically, to address existing vulnerabilities and mitigate potential risks;

Recognizing that ICAO has placed Cybersecurity and Information System Resilience in Aviation as one of its core priorities and has established a new Cybersecurity Panel, in which ACI World is represented;

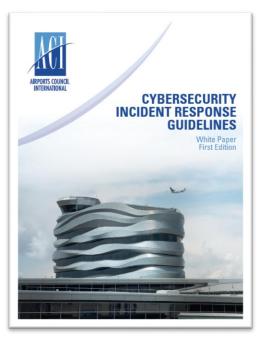
Voting the existence of a multitude of global standards for cybersecurity and the angoing development of an aviation specific regulatory framework for cybersecurity both an a global scale through ICAO, and in regional contexts; and

Recalling that ACI World has been diligently working with members and the Airport IT Standing Committee on establishing guidance materials for airports to support their cyber

More guidance over the years to assist airports



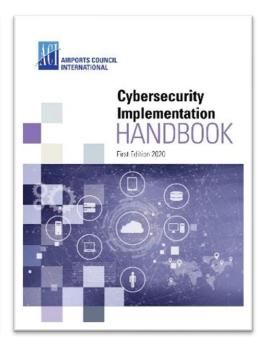
Digital culture & leadership strategy



Cybersecurity incident response guidelines



GD on cybersecurity for airport security managers



Cybersecurity implementation handbook



Cybersecurity for airport executives

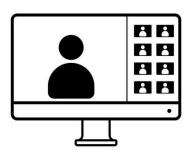


Also, more training courses available on cybersecurity



Classroom trainings

- Cybersecurity for airport managers (3-day)
- Management of Cybersecurity for Airport IT Managers (3-day)



Webinar

- Airport cybersecurity: protecting critical infrastructure
- Digital transformation: leadership, strategy, and innovation
- Cybersecurity for Airport executives (self-paced, virtual)

ACI APEX programme extended to cybersecurity

















Launched in 2017



Launched in 2022



First launched in 2023



In summary, you are invited to....

- Acknowledge the growing concerns on cyber threats against airports in the APAC region
- Note the common challenges in cybersecurity faced by airports (e.g. risk assessment, accountability and policy, and training)
- Make use of ACI's programmes and tools on cyber
- Share experience and best practices in addressing cyber threats against airports and aviation

THE VOICE OF ASIA-PACIFIC AND MIDDLE EASTAIRPORTS



W www.aci-asiapac.aero

E info@aci-asiapac.aero

T +852 2180 9449

@ACIAPACMID

in

@Airports Council International – ACI Asia-Pacific & Middle East

