



ICAO MID

CYBER SECURITY AND RESILIENCE SYMPOSIUM

TOWARDS A RESILIENT AVIATION CYBERSPACE

AMMAN, JORDAN | 15-17 OCTOBER 2019



In collaboration



مدينت تنظيم الطيران المدني الاردني
JORDAN CIVIL AVIATION REGULATORY COMMISSION

ICAO Cyber Security & Resilience Symposium

DAY 1 – Tuesday, 15 October 2019

08:00–09:00 **Registration**

09:00–09:40 **Session 1.1: Opening Ceremony**

Capt. Haitham Misto, Chief Commissioner and CEO of Jordan Civil Aviation Regulatory Commission

Mr. Mohamed Rahma, ICAO MID Regional Director

09:40 – 10:00 **Session 1.2: Setting the Scene**

Cyber Security Global and Regional perspective, **Mr. Andreas Meyer**, ICAO Aviation Cyber Security Officer



Coffee Break & Group Photo & Exhibition

Sponsored by
JTB



10:45 – 12:30

Session 2: Cyber Threats and Risks in AVSEC

Aviation Security deals with protecting the aviation ecosystem from intentional acts to harm to lives and assets. Traditionally those threats were of physical nature – “the bombs, and knives”. They could be located and were tangible in understanding their dimensions. But now, a new era has begun. The cyberspace offers opportunities to attack the aviation ecosystem from anywhere in the world by staying anonymous and hidden. The socio-technological means necessary to conduct a cyberattack are minimal, but the effect could be disastrous, and the measures needed to protect the aviation system are immense. Cyber Threats are an asymmetrical threat that requires a new way of thinking. This Session will explore aspects of this asymmetrical threat and discuss innovative of protection and deterrence for the aviation ecosystem

Moderator: **Mr. Andreas Meyer**, ICAO Aviation Cyber Security Officer /**Mr. Shawn Goudge**, Regional Manager Aviation Security for Africa and the Middle East

- Cyber Security risks in AVSEC & associated legal framework, **Mr. Andreas Meyer**, ICAO Aviation Cyber Security Officer
 - Electronic Fraud Threats, **Mr. Hossam El Shaffei**, ACFE Advisory Council
 - Combatting Cybercrime, **Mr. Raymond CAO**, Digital Crime Officer at INTERPOL
 - Cyber Terrorism: **Mr. Karim Labib**, ICAO MID Regional Officer -Security & Facilitation
-



Lunch Break & Exhibition

Sponsored by
JTB



13:45 – 15:30

Session 3: Cyber Threats in Air Navigation Services

How does Safety interact with Security? Why ANS is vulnerable to Cyber-attack? What are the consequences of ANS/ATM cyber-attack? This session will explore the ANS Cyber risk exposure, asset management and threats and vulnerabilities identifications.

Moderator: **Mr. Saulo Da Silva**, Chief Global Interoperable Systems

- Cyber security in ATM - Is It Sink or SWIM, **Mr. Greg Kurten**, Director of Communication, Navigation and Surveillance at the GCAA's Area Control Center in Abu Dhabi
- Cyber Security Threats to ANSP, **Dr. Bashar Alohal**, Director of Cyber Security at General Authority of Civil Aviation, Saudi Arabia
- EUROCONTROL's view on cyber risk, threats and challenges in ATM, **Mr. Patrick Mana**, EUROCONTROL Cyber Security Cell Manager and EATM-CERT Manager
- Increasing Cyber Safety in ATM Operations, **Mr. Shayne Campbell**, Safety Programme Manager for CANSO
- Aviation cybersecurity, safety and moving forwards together, **Mr. Pete Cooper**, Strategic Cyber Operations adviser

09:00 – 16:00

All Day Exhibition

END OF DAY 1

ICAO Cyber Security & Resilience Symposium DAY 2 – Wednesday, 16 October 2019

09:00–10:30

Session 4: IT Cyber Threats and Risks

IT cyber threats are increasingly considered as a top global risk for the aviation sector and the economy as a whole. Impacted organizations stand to lose sensitive data, billions of dollars and reputational damage. This session aims at enhancing the understanding of the vulnerabilities and Keeping track of new threats and risks as an essential key for a strong security posture.

Moderator: **Mrs. Sonia El Sakka**, ICAO MID ICT & Marketing Regional Coordinator

- Major Threats and Risks in 2020- **Mr. Mohammad A. Alkhudari**, Cyber Security Product Strategy Expert
- IoT Security and Privacy Challenges, **Mr. Adel Abdel Moneim**, registered ITU-ARCC Cybersecurity Expert
- How to Identify Cyber Threats and Risks in any IoT architecture - **Mr. Ayman Khalil**, Infosec Professional Expert
- Cyber Analytics in Aviation, **Mr. Omar Sherin**, CNIs and OT Cybersecurity Expert
- Defending Airports against Emerging Ransomware Attacks, **Mr. Ayed Al Qartah**, Security Technical Solutions Architect



Coffee Break & Exhibition

Sponsored by
CARC



11:15–11:30

Session 5: Cyber Resiliency Pillars

Mr. Mohamed Smaoui, ICAO MID Deputy Regional Director

11:30 – 12:45

Session 6: Building Resiliency: Vendors Perspective

The session will explore vendors' perspective on Cyber resiliency and how readily technologies and services can be applied to meeting cyber resiliency goals and objectives.

Moderator: **Mrs. Muna Alnadaf**, ICAO MID Regional Officer, Communications, Navigation and Surveillance

SKYTALK

NOKIA

SKYTALK

tenable

SKYTALK

PCCWGlobal



Lunch Break & Exhibition

Sponsored by
PCCW Global

PCCW Global

14:00–15:45

Session 7: Four parts approach to Cyber Resilience

Aviation is a dynamic business environment; traditional security tactics may not be sufficient. This session explores the resilience four parts approach. How to assess and manage the risks associated with Cyber threats, detect anomalies and potential cybersecurity incidents, and how to implement incident management process and ensure business continuity.

Moderator: **Mr. Bruce Jackson**, e-enabled Aviation Subject Matter Expert

- From Governance and Policy to Practice, the Critical Need for Aviation Cyber Security, **Mr. Bruce Jackson**, e-enabled Aviation Subject Matter Expert
- Integrated Cyber Risk Management, **Mr. Andreas Meyer**, ICAO Aviation Cyber Security Officer
- challenges of real world advanced cyber security threat intelligence, **Mr. Fares Al Kilani**, Airport International Group (AIG), Jordan
- A Cyber-Resilient IoT Certification Framework for Aviation Systems, **Mr. Roland Atoui**, Infosec Professional Expert
- Cybersecurity Audit: identifying risks & adding value, **Mr. Hussam Khattab**, President of ISACA Chapter Amman

09:00 – 16:00

All Day Exhibition

END OF DAY 2

ICAO Cyber Security & Resilience Symposium
DAY 3 – Thursday, 17 October 2019

09:00–10:30

Session 8: Building Cyber Resilience: Regulations Perspective

How do regulations, policies, legislative tools aid in building cyber resilience to ensure strong defenses and quick recovery from attacks; and also cyber innovation – nurturing ideas and a vibrant ecosystem, so that we keep pace with evolving threats. This session will explore different regulation perspectives to strengthen cybersecurity and build cyber resilience.

Moderator: **Mr. Karim Labib**, ICAO MID Regional Officer Security & Facilitation

- Legislative Infrastructure of Cyber Security in Jordan, **Ms. Nada Khater**, Head of e-government strategies division at the Ministry of digital economy & entrepreneurship of Jordan
- EC Regulations, **Ms. Hana Guyaux Pecháčková**, Secretary of the Aviation Security Committee and Stakeholders Advisory Group on Aviation Security and cyber security policy and coordination in European Commission's Directorate-General for Mobility and Transport.
- The changing landscape of threats against critical infrastructure environments, **Mr. Biju Hameed**, Head of Cybersecurity & Resilience practice at Dubai Airports
- Oman Air Cyber Resilience strategy, **Ms. Samiha Al Busaidi**, Manager Security Network & Compliance at Oman Air
- Cyber security governance and legislative empowerment, **Dr. Rebekah Tanti-Dougall**, Partner at Advocates, Tanti-Dougall & Associates Law Firm; Legal Consultant on the cyber threat in aviation.



Coffee Break & Exhibition

Sponsored by
AIG

مجموعة المطار الدولي
Airport International Group

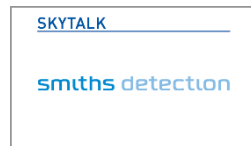
11:15 – 12:30

Session 9: Emerging Cyber Technologies and Solutions

Emerging technologies are already impacting how we live and work. They're also changing how we approach, plan, and integrate security operations. In Cyber Security, innovation and imagination are essential in order to keep pace with the exponential technological transformation taking place.

Moderator: **Mrs. Muna Alnadaf**, ICAO MID Regional Officer, Communications, Navigation and Surveillance

- Trust Framework, **Mr. Saulo Da Silva**, Chief Global Interoperable Systems
- Assessment of Potential Cyber Threats in Next Generation ATS systems and Mitigations Techniques, **Mr. Ahmed Abdel Wahab**, Senior Communications, Navigation and surveillance (CNS) safety oversight inspector - Air Navigation Engineer at the Egyptian Civil Aviation Authority
- ATM Data and Cyber Security Portal, **Mr. Greg Kurten**, Director of Communications, Navigation and Surveillance at the General Civil Aviation Authority's Area Control Center in Abu Dhabi



Lunch Break & Exhibition

Sponsored by
AIG



13:45– 15:30

Session 10: Cyber Security Management Framework

The session will present existing best practices in Cyber Security management and comprehensive security frameworks implemented regionally and globally.

Moderator: **Ms. Cornelia Ludorf**, EUR-NAT Regional Officer AVSEC & FAL

- Aviation Cyber Security Guidance, **Mr. Nick Lawrence**, Aviation Security Specialist with the Qatar Civil Aviation Authority (QCAA)
- Cyber Security Management, **Mr. Alireza Khodadoost**, Iran Airports Company
- ITU Cyber Security Framework, **Rouda Al Amir Ali**, International Telecommunication Union Arab Office
- Moving from cyber-security towards cyber-resilience: EUROCONTROL's approach, **Mr. Patrick Mana**, EUROCONTROL Cyber Security Cell Manager and EATM-CERT Manager
- Integration of AVSEC and Cyber Security, **Mr. Shawn Goudge**, Regional Manager Aviation Security for Africa and the Middle East

15:30–16:00

Session 11: Closing Ceremony

Outcomes: **Mr. Mohamed Smaoui**, ICAO MID Deputy Regional Director
Closing Speech: **Mr. Mohamed Rahma**, ICAO MID Regional Director

09:00 –16:00

All Day Exhibition

END OF DAY 3