CYBER SECURITY AND RESILIENCE SYMPOSIUM | TOWARDS A RESILIENT AVIATION CYBERSPACE

AMMAN, JORDAN | 15-17 OCTOBER 2019

Session 7

Four parts approach to Cyber Resilience

Mr. Bruce Jackson, BSAE, MA BMI, a subject matter expert in the field of e-Enabled Aviation, addressing challenges with information, communications, informatics, analytics and cyber security for the digital, software and data intensive connected aircraft.

In this domain he has worked with the major airline, business jet and avionics manufacturers and many airlines and business jet operators across the world. His work has included Airbus, Boeing, Bombardier and Gulfstream aircraft, in both airliner and business jet configurations. In matters of cyber security, He has addressed both airworthiness and cabin privacy. He and his team has addressed the business-critical issues of GDPR, information security and privacy for the largest aircraft operating for the wealthiest individuals and businesses. He frequently works with corporate general counsels, designated outside counsel to maintain the strictest levels of privacy and confidentiality. Bruce has extensive experience with In-Flight Satellite Communications and Wi-Fi Connectivity. He was a Principle Investigator for the NASA Advanced Communication Technology Satellite (ACTS) where he integrated Wi-Fi data delivery into Ka / Ku band spot beam data stream. He served as a consulted to the airlines to recommend their next generation SatCom service providers.

His aerospace experience includes consultant in the development of wireless ad-hoc mobile data networks for battlefield electronic warfare and intelligence. His professional experience also includes Lead Systems Engineer for real time flight operations of the Voyager Spacecraft during the Uranus and Neptune Planetary encounters and the first phase of the Voyager Interstellar Mission, and the Galileo Jupiter Orbit Insertion. Prior to his work at NASA JPL, he was at the Lockheed Skunk Works and Northrop flight-testing classified military aircraft.

He was a member of the Cellular Telephone and Internet Association, a member of their Wireless Internet Caucus and on their CIO Wireless Advisory Board. While at Pfizer he was a senior manager for Global Infrastructure architecture and Mobile Technology Strategy.

Mr. Jackson holds a Bachelor of Science in Aerospace Engineering and Master's Degree in Bio Medical Informatics from Columbia University, with additional graduate work at the Graduate School of Business and College of Physicians and Surgeons.

Mr. Bruce Jackson

Mr. Andreas holds an Air Transport Pilot Licence and aviation qualifications as instructor pilot and CRM trainer. He has a degree in Natural Sciences, holds a Master of Science in Risk, Crisis and Disaster Management from the University of Leicester, has a certificate in Cybersecurity from Harvard and is a researcher on social and cultural aspects of Risk, Crisis and Disaster Management.

Prior to joining ICAO, Andreas has worked in military, government and corporate flight operations as an instructor pilot and operational risk manager, and for two years acted as the Managing Director of the International Federation of Airline Pilots' Associations.

In 2013 he joined ICAO's Integrated Safety Management Section at the organization's headquarter in Montreal, as resident operational safety expert supporting the section's Safety Intelligence activities. Later he transitioned to the Operational Safety Section and commenced duties as the Focal Point for ICAO's Conflict Zone Information Repository. In 2015, and in addition to the responsibilities on Conflict Zones, he started supporting the development of ICAO's newly established Safety Information Monitoring Service. In 2016, Andreas assisted in the development of the ICAO Crises and Rapid Response Programme, providing support and research in the field of Risk, Crisis and Disaster Management to the Programme Manager. As of August 2017, as a direct result of the ICAO General Assembly Resolution A39-19, he was appointed as the ICAO Aviation Cybersecurity Officer.

Mr. Andreas Meyer
ICAO

Mr.Faris M. Kilani

Manage projects and teams that includes train and coach new staff; ensure deliverables quality, and monitor budget

internal and external IT audit in different industries banking, aviation, telecom, government, pharmaceutical, retail and manufacturing. Assess and implement Control Objectives for Information and Related Technology (COBIT5) for different banks in Jordan.

Information Security Management System Consultant/Specialist, that includes:

Develop IS and IT policies and associated procedures for different clients and industries

Conduct cyber security assessment and process maturity level assessment

Security configuration review for IT components and technologies

Developed the National Information Security Compliance Framework for one of GCC countries, including processes for accreditation third party for certification service and the certification process

Implement and audit/review Business Continuity Management and Disaster Recovery Planning

Provide cyber security, IT internal Audit and CISA trainings in different locations including Jordan and Iraq

Implement and review ISO 27001 for Information Security Management system (ISMS) Standard

Core Banking System selection for a leading bank in Iraq, that start from obtaining requirements, develop RFP and evaluate proposals and vendors

Familiar with different technologies, network infrastructure, systems, operating systems and DBMS, Conversant with integration information security system solutions with industrial best practices to ensure data protection.

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ICAO 2019

75 YEARS OF CONNECTING THE WORLD

Mr. Roland is an Infosec Professional with more than a decade of experience in the industry.

From smart cards to smart embedded devices up to cloud services.

Roland is a new technology enthusiast with a current mission to bring trust to the Internet of Things. A security expert having recognized achievements working for companies such as Trusted Labs, Gemalto, Oracle and Red Alert Labs with backgrounds in both research and industry.

He has achieved a series of world-first publications, evaluations of new products and services. Roland holds a master's degree in computer sciences and Critical Systems Engineering from Bordeaux 1 University.

He is an Executive MBA candidate at EDHEC business school Paris & Lille, France.

Mr. Roland Atoui

Mr. Hussam Khattab, President of ISACA Amman Chapter. Hussam is IT Audit senior manager with 14 years of experience in banking industry in MENA region. An MBA holder with engineering background. He holds multiple professional certifications and is CISA, CGEIT, PMP and COBIT certified.

Hussam participated in many task forces for authoring and reviewing ISACA white papers/ guidelines related to cybersecurity, privacy and governance. He has published articles in regional magazines and was speaker in ISACA conferences.

Mr. Hussam Khattab