



Month of Knowledge For The Future of ANS



We Learn To “Change” For a Better Future

Series of “ten” educational webinars



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Effectiveness of AIM functions, systems, & processes

6th August 2020

12:00 UAE | 08:00 UTC

A presentation of the aeronautical information functions that are a State responsibility, and the systems and processes to effectively and efficiently fulfill these roles.

Who Should Attend?

ATM community i.e. Aerodromes, Airspace users (Airlines), ATM service providers and State Regulatory authorities.

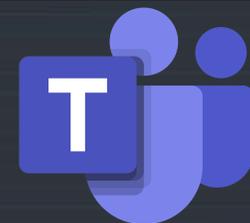


Dean Fernandes
Head – AIM Publication
U.A.E. GCAA



Radhouan Aissaoui
Regional Officer
Information Management
ICAO

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Air Traffic Flow Management

9th August 2020

12:00 UAE | 08:00 UTC

An introduction to Air Traffic Flow Management as part of the ATM ecosystem and how collaboration of the aviation community contributes to an optimal and efficient resource utilization.

Who Should Attend?

Members of the extended aviation community and aviation enthusiast who want to learn more about how to manage the challenges in a congested airspace



Mohammed Al Baloushi
Research & Dataset Officer
U.A.E. GCAA



Elie El Khoury
Technical Officer ATM
Air Navigation Bureau
ICAO

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Future of ATC Training

11th August 2020

12:00 UAE | 08:00 UTC

An introduction to ATC sections, parts and divisions. An insight of how air traffic control training will look like in the future and how it would adapt to integration of drones, hypersonic traffic, & data link.

Who Should Attend?

General public, aspiring aviation-minded individuals. Educational institutions, students and their guardians. ATM community, air traffic controllers and assistants. Training managers along with instructors, simulator operators, and pseudo pilots



Ahmed Al Ketbi

Air Traffic Services Instructor
U.A.E. GCAA



Richard Lange

Air Traffic Services Instructor
Airways NZ, New Zealand

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Effective Quality & Compliance Audit for ANSP

13th August 2020

12:00 UAE | 08:00 UTC

Merging Quality and Compliance audit. Importance of audit preparation, defining & publishing auditors' actions before an audit. Exploring how to complete an audit, reducing resources, & increasing the performance of an audit.

Who Should Attend?

Aviation Quality and Safety personnel and any individuals/professionals with an interest in quality compliance & safety

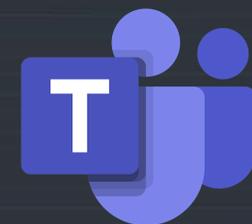


Vesna Markovic
Quality Specialist
U.A.E. GCAA



Desmond Whitty
Safety, Quality & Environmental
Executive Director
Saudi Air Navigation Services K.S.A.

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Systems Thinking in Safety

17th August 2020

12:00 UAE | 08:00 UTC

Exploring concepts to encourage a 'systems thinking' approach to help make sense of & improve systems performance. Ways of thinking about systems, work and safety, & translating theory into practice.

Who Should Attend?

Aviation Safety personnel and any individuals/professionals with an interest in safety



Asma Al Dhaheri

Senior Safety & Standards Officer
U.A.E. GCAA



Muna Alnadaf

Regional Officer CNS
ICAO

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AIP Digital Datasets

19th August 2020

12:00 UAE | 08:00 UTC

The perspective of transposing Annex 15/PANS-AIM requirements is the most demanding activity for a State AIS i.e. the operational implementation of the digital datasets. The session discusses the implementation steps of AIP datasets, the “What”, “How”, “When” of the transition plan elements.

Who Should Attend?

National and States AIS offices, AIM vendors/industry.

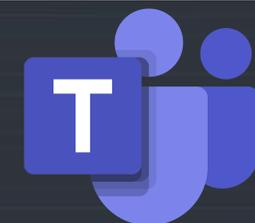


Sorin Dan Onitiu
Head PANS OPS
U.A.E. GCAA



Razvan Guleac
EAD Change and Evolution Manager
EUROCONTROL

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Blockchain & Big Data in ANS

24th August 2020

12:00 UAE | 08:00 UTC

What is “Blockchain” and “Big Data” in general, its potential use in ANS, real-time benefits in terms of cost, performance, decision making and governance and the industry challenges for its implementation?

Who Should Attend?

Members and students of the extended aviation community who want to learn about the latest developments with regards to Blockchain and Big Data in ANS



Shahzad Chaudhary
Senior CNS Engineer
U.A.E. GCAA



Syed Samiullah
AIM Database Officer
U.A.E. GCAA

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UTM - The New ATM Plus

26th August 2020

16:00 UAE | 12:00 UTC

The rapidly growing unmanned traffic is becoming an essential stakeholder in the ATM world. How will the new partner be integrated and how can we safely and efficiently grow together?

Who Should Attend?

Members of the entire aviation community including international & national organizations, policy makers, & airspace users



Hamad Al Belushi
Air Navigation Services Specialist
U.A.E. GCAA



Jay Merkle
Executive Director for the Unmanned
Aircraft Systems (UAS) Integration Office
FAA U.S.A.



Steve Bradford
Chief Scientist, Architecture and NextGen
Development
FAA U.S.A.

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System Wide Information Management (SWIM)

27th August 2020

14:00 UAE | 10:00 UTC

Presenting the transformation of the ANS infrastructure to a globally interoperable ecosystem and its importance for the global roadmap presented in Global Air Navigation Plan (GANP) and what has been learned from the first-generation implementations of SWIM enabled applications.

Who Should Attend?

Members of the entire aviation community including system architects, engineers, and managers who are interested in SWIM as a strategic building block



Yousif Al Awadi

Senior Research & Dataset Officer
U.A.E. GCAA



Diana Liang

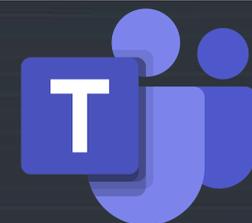
Enterprise Portfolio Manager (ANG-2)
U.S.A. FAA



Pedro Fernandez-Sancho

EUROCONTROL

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Civil Military Coordination

31st August 2020

12:00 UAE | 08:00 UTC

Benefits of Civil/Military Cooperation, to provide useful guidance based on ICAO Circular330 with a special focus on Conditional Route (CDR) and Airspace Management Cell (AMC) operation, provide an overview of the new ICAO Doc 10088 and awareness on the implementation of the Free Routes Airspace (FRA) Concept

Who Should Attend?

International, Regional and National Civil Aviation Authorities, National Military Authorities, Industry Associations, & ANSPs.



Muayyed Al Tenaiji
Acting Director Air Traffic Management
U.A.E. GCAA



Sven Halle
Regional Officer ANS (ATM)
ICAO

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Dean Fernandes

Head – AIM Publication
General Civil Aviation Authority
United Arab Emirates

Head of AIM Publication Air Navigation Services at the General Civil Aviation Authority of UAE since 2011.

He has worked in various disciplines of Aviation since 1994 including ATC, Flight Data Analysis, ATM and AIM projects and Aeronautical Information Service.

He is part of the National AIM Technical Committee; a platform to discuss status and progress of AIM in the UAE.

He was part of the MID RVSM implementation program supporting aircraft monitoring data and flight data analysis.



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Radhouan Aissaoui

Regional Officer, Information Management
ICAO MID Office
Cairo, Egypt

Information management officer (RO IM) at ICAO Middle East Office. Air Navigation Engineer. Joined ICAO in 2020. Began civil aviation career with the ANS Service Provider and Aerodrome Operator of Tunisia (OACA) in 1995, where he held various positions, starting from ATC Controller then ACC Supervisor, to the Head of PANS-OPS and Airspace Design Unit, to Head of the Air Traffic Studies Department, where he had been involved in AIM/ATM operations and Airspace Organization and Management. In 2014 he joined Hill International as ORAT transition manager.



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Mohammed Al Baloushi

Research & Dataset Officer
General Civil Aviation Authority
United Arab Emirates

Mohammed started his career with GCAA in 2006 as an Air Traffic Control Officer Trainee and completed his training in 2009 where he worked as an Air Traffic controller. Mohammed has completed On the Job Training Instructor course and operational supervisor course in 2014, performed supervisory duties for 2 years and then joined the Research and Dataset team in late 2016 as a Senior Research and Dataset Officer. Today Mohammed is involved in multiple projects including the Next Generation Air Traffic Management System and he is the team leader in AI development.



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Elie El Khoury

Technical Officer ATM
Air Navigation Bureau
ICAO Headquarters

Elie is the Technical Officer for Air Traffic Management at the Air Navigation Bureau, ICAO Headquarters. Elie is also the Secretary of the ATMOPS Panel, responsible for the development and amendment of SARPs and guidance materials relevant to ATM operations.

Elie joined ICAO in 2012 as the Regional Officer for Air Traffic Management and Search and Rescue at the ICAO Middle East Regional Office based in Cairo. Elie promoted, coordinated and ensured effective implementation of the ICAO Standards and Recommended Practices (SARPs) and the global and regional requirements related mainly to ATM and SAR. Elie has been supporting the ICAO USAOP CMA Program since 2013 covering the ANS Area. Elie was also leading the Contingency Coordination Teams (CCTs) in the MID Region.



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Ahmed Al Ketbi

Air Traffic Services Instructor
General Civil Aviation Authority
United Arab Emirates

Ahmed Al Ketbi, is an Air Traffic Control Instructor in GCAA. He is based at Sheikh Zayed Air Navigation Centre. Ahmed joined the National Air Traffic Control program in 2010. He has successfully passed the program, and acquired his Air Traffic Control License in 2012. Since then, Ahmed Al Ketbi has continued gaining knowledge and experience to become On Job Training Instructor in 2016, and a certified CISM (Critical Incident Stress Management) peer. Ahmed has contributed in educating the public, and promoting the National ATC program by representing GCAA in a variety of career fairs. Aside from aviation Ahmed has obtained his bachelor degree of Business administration in 2017. Ahmed joined the Training Department of Sheikh Zayed Air Navigation Centre in 2019.



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Richard Lange

Air Traffic Services Instructor
Airways NZ
New Zealand

Richard has twenty-seven years of experience as an Air traffic Controller exercising different ratings of ATC. He has worked as a control center supervisor for five years. Providing on the job instruction during most of those 27 years including standards and checking roles. Procedure development and associated training packages. For the last four years he worked as a full-time instructor delivering a wide range of courses for both ab initio and experienced controllers.



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Vesna Markovic

Quality Specialist
General Civil Aviation Authority
United Arab Emirates

Graduated from Belgrade University in 1991 from the Faculty of Traffic and Transport Engineering, and a holder of Master`s Degree in Transport and Traffic Engineering (M.Sc.) Working as Quality Specialist in GCAA since 2017, and previously she was Head of the Quality Management Department in Civil Aviation Authority of the Republic of Serbia in 2014 and Focal Point for CAD Republic of Serbia in EASA for Quality Compliance monitoring system. Previously she was an IOSA lead auditor in Wake QA, Head of the Safety and Quality Management Department (Civil Aviation Directorate of the Republic of Serbia). Before that she was an Inspector in the Airport Department (Civil Aviation Directorate of the Republic of Serbia).



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Desmond Whitty

Safety, Quality & Environmental Executive Director
Saudi Air Navigation Services
Kingdom of Saudi Arabia

Desmond Whitty is currently the Executive Director for Safety Security Quality & Environment at Saudi Air Navigation Services (SANS). He holds a MSc in Human Factors & Safety Assessment in aeronautics from Cranfield University UK and is currently studying for his PhD. With 26 years of experience in aviation Desmond has worked in many leadership and senior executive roles both in Military and Civilian aviation environments including aviation engineering, air traffic control while also pursuing his love for aviation by holding a private pilot license (PPL). Desmond has gained much experience in the European arena while working in ATM safety, quality and compliance departments focusing on regulatory, safety and quality systems integration, assurance and effectiveness. Desmond has been instrumental in leading the successful development, implementation and effectiveness of Safety, Security, Occupational Health and Safety and quality management systems at SANS since its inception as a corporate entity and successfully achieving ANSP certification in 2019.



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Asma Al Dhaheri

Senior Safety & Standards Officer
General Civil Aviation Authority
United Arab Emirates

Asma Al Dhaheri is a Senior Safety & Standards Officer in GCAA at Sheikh Zayed Air Navigation Center in Abu Dhabi. Asma joined GCAA in 2018. She plays a key role in the implementation of a comprehensive safety program at SZC. She also supports the promotion of overall ANS quality and safety management culture by ensuring compliance with safety standards supported by continuous improvement. Asma is involved in the ANS Safety Integrated Management project (ASIM), she works continuously in developing the system in order to provide all needed safety related activities for ANS. Asma is a motivated and a hard-working individual where she participated in several teams within Sheikh Zayed Center such as the Excellence Team. She presented SZC in Women in Aviation event in 2019.

Before joining GCAA, Asma worked at ADQCC (Abu Dhabi Quality and Conformity Council) for 3 years as a Senior Market Surveillance Analyst. She holds a Bachelor Degree in Management Information System (MIS) and a Master Degree in International Business.



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Muna Alnadaf

Regional Officer Communications, Navigation, & Surveillance
ICAO MID Office
Cairo, Egypt

Mrs. Muna ALNADAF is the Regional Officer, Communications, Navigation and Surveillance for the ICAO MID Office, Prior to joining ICAO in November 2017, she was the CNS director at Jordan Civil Aviation Regulatory Commission.

Muna is an electrical Engineer (Telecommunication & Computer). She holds MBA/MIS degree, post-graduate diploma in Project Management, diploma in Aeronautical Telecom. Engineering, and several professional certifications like PMP, CCNA, CCNP. Muna has over 18 years of experience in Aviation.



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Sorin Dan Onitiu

Head PANS OPS
General Civil Aviation Authority
United Arab Emirates

Mr. Onitiu graduated from the Polytechnic University of Bucharest as an Aerospace Engineer in 1981 and started as an Inspector for Navigation within the Romanian Civil Aviation Authority. Mr. Onitiu joined Jeppesen GmbH in 1992 as AIS and ARINC coding senior analyst. In October 2007, he was appointed Manager, Business Affairs and he acted as Jeppesen liaison with Civil Aviation Authorities and Air Navigation Service Providers within various ICAO regions.

To date, Mr. Onitiu is working with General Civil Aviation Authority of UAE as Head of PANS-OPS and AIM Data in charge of AIM system enhancement and leading the implementation of SWIM in GCAA within the frame of the global UAE SWIM development effort.

Mr. Onitiu is advisor to the Industry representative in ICAO IFPP, advisor to UAE representative in ICAO IMP and member of ICAO MID working groups.



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Razvan Guleac

Head PANS OPS
EAD Change and Evolution Manager
EUROCONTROL

Razvan Guleac is an aeronautical engineer with a master in advanced aerodynamics and satellite navigation. He started his career in 1999 in the Romanian Civil Aviation Authority, in the AIS and Navigation department, as a NOTAM Officer, continuing progressively as a cartographer, AIP editor and qualifying as a PANS-OPS instrument procedure designer, participating at the transition from conventional to the RNAV design of the terminal procedures for Romanian civil airports. In 2006 he became an Air Navigation Services consultant, providing services to the Controlled and Harmonized Aeronautical Information Network (CHAIN, the precursor of ADQ) and to the European AIS Database (EAD) where he contributed to the implementation of the AIXM 5.1 in Europe.

As part of his international career, Razvan was employed by the General Civil Aviation Authority of the UAE as the Head of PANS-OPS, where he was responsible for the AIXM-based AIM System.

Razvan is currently employed by EUROCONTROL as the EAD Change and Evolution Manager, being the overall responsible for the EAD applications development. He is also an adviser to the EUROCONTROL member of the ICAO Information Management Panel (IMP), being the leader of the editorial team responsible for the development of the SWIM Manual, Volume II – Implementation Guidance.



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Shahzad Chaudhary

Senior CNS Engineer
General Civil Aviation Authority
United Arab Emirates

Shahzad Chaudhary is a lead System Senior Engineer in ANS Department in GCAA. He has been working with GCAA since 2008. Prior to joining GCAA, he was a lead engineer in Network Operation Center (NOC) in Telecom Sector of Pakistan. He is an experienced, certified and skilled CNS (Communication, Navigation, Surveillance) Engineer, a certified ethical hacker and a security & network professional who holds Bachelor's Degree in Telecom Engineering and Masters in Eng. Management and has more than 10 years of extensive work experience in Aviation and Telecom Industry. In his current role, he is responsible of designing, deploying and managing the operational network & security infrastructure of UAE ANS, and working as a data communication specialist and a solution architect providing system designs, integration methodologies and solutions to intricate technical issues. Recently, Mr. Chaudhary is involved in the designing and deployment of SWIM (System Wide Information Management) solutions across UAE and working as a lead in the Block chain initiative of GCAA exploring the potential use case scenarios, their applicability and security aspects.



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Syed Samiullah

AIM Database Officer
General Civil Aviation Authority
United Arab Emirates

Syed Samiullah is AIM Database Officer at the General Civil Aviation Authority of UAE since 2015, where he researches and manages UAE Strategic Project named “Transition from Aeronautical Information Service (AIS) to Aeronautical Information Management (AIM)”. He holds Masters degree in Computer Applications. After his formal education he brings 17 years of experience in managing numerous projects associated to Database Management for various industries including Air Navigation Services & Telecommunications



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Hamad Al Belushi

Air Navigation Services Specialist
General Civil Aviation Authority
United Arab Emirates

Hamad Rashid Al Belushi, Air Navigation Services Specialist at UAE General Civil Aviation Authority (GCAA) is a prominent figure in Air Navigation Services arena of the GCC and the Middle East. He has more than 25 years of vast experience in managing, designing, testing, training and implementing Communication, Navigation and Surveillance systems as well as ATM processes and procedures.

Originally an Air Traffic Controller (ATC), Hamad progressed steadily in his career through the roles of Quality Control Officer, Air Traffic Service Instructor, ATC Dataset officer, Head of ANS Research and Dataset, Director Air Traffic Management and is the chairman of several task forces and committees including ICAO Middle East Air Traffic Flow Management (ATFM) Task Force.



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Jay Merkle

Executive Director for the Unmanned Aircraft Systems (UAS)
Integration Office, FAA
U.S.A.

Prior to being named the new Executive Director of the Unmanned Aircraft Systems Integration Office, Peter “Jay” Merkle was the Deputy Vice President (DVP) of the Program Management Organization (PMO) within the Air Traffic Organization (ATO). The PMO is responsible for all NextGen program activity; all National Airspace System (NAS) communications; navigation, weather, surveillance and automation modernization programs; and all service life extensions to legacy NAS sensors, communications and navigation aids. Given the tight coupling between successful automation program delivery and current system operation, the PMO also leads and manages all second-level automation engineering efforts. Lastly, the PMO works with FAA operations and aviation users to ensure globally interoperable solutions for NextGen.

Prior to that position, Merkle was the Director of Program Control and Integration, AJM-1, in the PMO for the ATO. In that capacity, he led the PMO in developing effective, timely, and innovative solutions to evolving business needs. The focus areas were program control, cross-cutting analysis and integration, and special initiatives.

Since joining the FAA, Merkle has served as the Manager of Systems Integration for Portfolio Management and Technology Development within the NextGen organization. He also has held positions as the Lead Engineer for tower, terminal, and en route automation systems, as the Chief System Engineer for En Route and Terminal Domains, and as the Chief Architect for NextGen at the Joint Planning and Development Office.

Merkle has over 30 years of extensive experience in engineering and program management. He started his career as an engineer working in cockpit and crew station design on several aircraft, including the C-17 large transport aircraft. Merkle holds a Bachelor’s degree in Psychology from the University of Central Florida and a Master's degree in Industrial Engineering and Operations Research from the Virginia Polytechnic Institute and State University.



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Steve Bradford

Chief Scientist for Architecture and NextGen Development
FAA
U.S.A.

As Chief Scientific & Technical Advisor for Architecture and NextGen Development, Steve Bradford provides expert scientific and technical leadership, guidance, and advice on operational concept development, research on validation of these concepts, and development of the architecture and system definition to deliver capabilities defined in the concept of operations. There is a special emphasis on operations research and mathematical analyses of new air traffic control and management procedures designed to increase the safety and efficiency of the National Airspace System (NAS).

In this role, Mr. Bradford has participated in the development of the NextGen Concept, the RTCA NAS Operational Concept and the ICAO ATMCP Global Concept. He provides specialized scientific and technical guidance, advice and assistance to top FAA management officials in all architecture and NextGen development areas supporting new concepts of operations in the NAS.

Mr. Bradford is the chairman of the Technical Review Board, which monitors technical decisions related to investments and the NAS Enterprise Architecture. He works across FAA organizations to develop midterm plans and 5-year budget requests to implement NextGen. He has a leading role in several international activities with the SESAR Joint Undertaking and ICAO and has led several cooperative international efforts via action plans with EUROCONTROL.

Previously, Mr. Bradford lead efforts to validate future concepts and develop the FAA's NAS Enterprise Architecture. Prior to his current position, Mr. Bradford was the Manager of the NAS Concept Development Branch and conducted early analysis of Free Flight Concepts.



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Yousif Al Awadi

Senior Research & Dataset Officer
General Civil Aviation Authority
United Arab Emirates

Yousif Al Awadi, an emerging talent in the UAE aviation arena, is a Senior Research & Dataset Officer at the General Civil Aviation Authority. Yousif started his career as an Air Traffic Controller in 2005, soon became a trainer and a supervisor before moving to Research & Dataset section in 2014. In his new role Yousif played the vital role of an ATC Operations Expert in the specification and design of Air Traffic Management systems, System Wide Information Management Gateway system and Collaborative Air Traffic Flow Management system. Yousif's expertise include systems design, testing, training and implementation of ATM systems, processes and procedures.

An academic by instinct, Yousif holds a Master's degree in Aviation Management from the Emirates Aviation College, Dubai. To "Create leaders for tomorrow", UAE Government is running a course termed "UAE Government Leadership Program – Future Leaders" in which Yousif graduated in 2018



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Diana Liang

Enterprise Portfolio Manager (ANG-2)
Federal Aviation Administration
United States of America

Diana Liang works in the FAA NextGen Organization, Ms. Liang has successfully provided direction and oversight on the development and fielding of many of the FAA's NextGen Programs and enabling technologies. In each of her previous roles she has promoted NextGen CNS programs. As Acting Chief for the NAS Architecture, she helped to manage the FAA's overall plan for the transition to and implementation of the NextGen Systems including the SWIM and Datacom Programs. Ms. Liang, as Enterprise Portfolio Manager, helps to prioritize all NextGen Research and Development activities with the FAA from a funding and schedule perspective to help the NAS recognize many of the planned performance improvements. This has included strong support for Enterprise CNS research. Ms. Liang is the US nominated panel member to the ICAO Information Management Panel (IMP) leading the development of SWIM and Information Services guidance. In 2019, she led the FAA delegation in collaboration with the ASEAN partners in the ASEANS SWIM demonstration.



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Pedro Fernandez-Sancho

EUROCONTROL

Project manager for the standardization by EUROCONTROL of SWIM compliance and Infrastructure specifications that will be used as reference for the deployment of SWIM in Europe.

As senior information systems architect at EUROCONTROL, he has been involved in SWIM from the very beginning of SESAR's research and development program, and contributed to a diversity of SWIM projects including: governance, registry, security, service design and infrastructure.

Graduated in computer engineering with studies in international economics, he has more than 20 years of experience in research, development and operation of distributed information systems in public and private international organizations operating global communication networks.



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Muayyed Al Tenaiji

Acting Director Air Traffic Management
General Civil Aviation Authority
United Arab Emirates

Mr. Muayyed Al Teneiji has joined the GCAA July 2005 as an air traffic controller trainee, he got validated in 2008 and later on joined the Research & Dataset section, he held a number of posts within the Sheikh Zayed Air Navigation Centre, most recently Acting Director of Air Traffic Management. He is Member in number of ICAO panels and Task groups. Muayyed has a bachelor degree in Civil Engineering and a Masters degree in Aviation Safety From the Emirates Aviation College.



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Sven Halle

Regional Officer ANS (ATM)
European and North Atlantic Office, Paris (EUR/NAT)
ICAO

Mr. Sven Halle is working in the ICAO European and North Atlantic Office in Paris, France. He joined ICAO in January 2010 and is Regional Officer, Air Navigation Systems Implementation (Air Traffic Management) with a focus on the support to the States in the Eastern part of the ICAO EUR Region, the implementation of the regional performance framework, the monitoring of Global Air Navigation Plan implementation, civil/military cooperation issues, crisis management and inter-regional coordination aspects. He is also an ICAO audit team member covering the scope of Air Navigation Services provisions. Sven started to work as an Air Traffic Controller in 1984 with the Berlin Aeronautics Unit and after the German reunification joined the German Air Navigation Service Provider as an ATC-Expert.

In 1995 he moved to DFS (Deutsche Flugsicherung GmbH) Headquarter in Frankfurt, Germany where he started to work in the Air Traffic Management Systems Domain and on Airborne Collision Avoidance Systems (ACAS). As head of the operational ATM-System unit, he became an active member of several international civil (ICAO, Eurocontrol) and also military (NATO) working groups. In 2006 he was seconded to the European Commission DG TREN (Transport and Energy) Air Transport Directorate in Brussels, Belgium, where he was responsible for the development of Community Specifications, the support to Implementing Rules activities and the coordination of all standardization/certification activities under the Single European Sky Regulations. Sven owns a Master from PSDS in Stuttgart.

