



ICAO ASIA/PACIFIC REGIONAL ATM AUTOMATION SYSTEM SYMPOSIUM

Nanjing, China, 22-23 November 2018

Faciliator and Moderators

Mr.Li Wen Xin;*Regional Officer ATM (ATFM-CDM), International Civil Aviation Organization*



Mr. Li Wen Xin is the regional officer for air traffic flow management and collaborative decision making in ICAO APAC RSO, based in Beijing, China. Together with his colleagues, Mr. Li has been engaged in the ATFM/CDM development and harmonization in APAC region. Before ICAO, Mr. Li served in the International Air Transport Association (IATA), leading his team to promote aviation safety initiatives and to address the operational issues for the IATA member airlines operating in North Asia region. Prior to IATA, Mr. Li was in service in the Chinese Air Force, responsible for ATM automation program planning and management.

Mr.Richard Wu JP;*Assistant Director-General,Hong Kong Civil Aviation Department, Chairperson of CNS Sub-Group*



Mr. Richard WU is the Assistant Director-General of the Civil Aviation Department (CAD) of Hong Kong China leading the regulatory division in overseeing aviation safety and security matters of the Hong Kong International Airport since 2018. Prior to this posting, he took up various offices in the air traffic engineering division and air traffic management division. He took charge of the planning, design, and implementation of all engineering projects, as well as O&M management of ANS systems. Mr. Wu has been elected as the Chairperson of the ICAO CNS Subgroup since 2017.

Ms. Xie Yu Lan;*Chief Engineer, North China Regional Air Traffic Management Bureau, CAAC*



Ms. Xie is the Chief Engineer of North China Regional ATM Bureau of CAAC. She is responsible for the adoption of new technology pertaining to air traffic management, as well as the planning of strategic development. She provides overall direction and supervision of the planning and implementation for various air traffic engineering projects in Beijing. She has been specialised in radar and ATM automation systems more than 10 years respectively. She currently serves as the Co-chair of ICAO Asia/Pacific DAPs WG.



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Mr David Leow, *Head , Air Traffic Management Systems Engineering Development, CAAS*



Mr David Leow has been with CAAS since 2010. In his early days with CAAS, he was part of the team responsible for testing and deployment of Singapore's current ATC system. His area of focus, during that time was specifically the Human Machine Interface or HMI for short. David is now heading the Air Traffic Management Systems, Engineering Development team as well as the Software Development team, with more emphasis placed around developing in-house capabilities for software development.”



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22 November 2018 (Thursday) – Opening

Mr. Li Qi Guo; *Deputy Director-General, Air Traffic Management Bureau, CAAC*



Mr. Li Qi Guo has served as the deputy director general of Air Traffic Management Bureau, CAAC since 2014, responsible for overseeing the operation and development of CNS/ATM Division and Meteorology Division. He also holds a leading consulting role in the strategic planning for China's ATM modernization. He holds a bachelor degree in electronics from Shandong University, a master degree in CNS from the French Civil Aviation University (ENAC) and an MBA in economics and management from Tsinghua University.

Mr. Luo Yi; *Regional Officer CNS, International Civil Aviation Organization*



Mr. Luo Yi has been working in the CNS fields for 30 years, served as the Director of the CNS Division of Southwest Regional Air Traffic Management Bureau of CAAC since 2007. He joined ICAO Asia and Pacific Regional Office as CNS Regional Officer in July 2018.

Mr. Richard Wu JP; *Assistant Director-General, Hong Kong Civil Aviation Department, Chairperson of CNS SG of APANPIRG*



Mr. Richard WU is the Assistant Director-General of the Civil Aviation Department (CAD) of Hong Kong China leading the regulatory division in overseeing aviation safety and security matters of the Hong Kong International Airport since 2018. Prior to this posting, he took up various offices in the air traffic engineering division and air traffic management division. He took charge of the planning, design, and implementation of all engineering projects, as well as O&M management of ANS systems. Mr. Wu has been elected as the Chairperson of the ICAO CNS Subgroup since 2017.



ICAO ASIA/PACIFIC REGIONAL ATM AUTOMATION SYSTEM SYMPOSIUM

Nanjing, China, 22-23 November 2018

22 November 2018 (Thursday) – Agenda Item 1

Overall System Planning and Design

SP101 – The Role and Scope of ATM Automation System

Mr. Luo Yi; *Regional Officer CNS; International Civil Aviation Organization*



Mr. Luo Yi has been working in the CNS fields for 30 years, served as the Director of the CNS Division of Southwest Regional Air Traffic Management Bureau of CAAC since 2007. He joined ICAO Asia and Pacific Regional Office as CNS Regional Officer in July 2018.

SP102 – ATM Automation System Outline in China

Mr. Li Xin; *Deputy Director, Technical Centre of Air Traffic Management Bureau, CAAC*



Mr. Li Xin is the Deputy Director of Technical Center of Air Traffic Management Bureau (ATMB), CAAC, the China member of ICAO Surveillance Panel (SP).

He has been focusing on CNS technology R&D, Trial & Validation works for ATM system of CAAC, especially on GNSS augmentation, ADS-B, and ATN technologies, since graduated from Automatic Control Institute of Nanjing University of Aeronautic and Astronautic (NUAA). As the deputy director of Technical Center of ATMB from 2014, he is in charge of CNS equipment certification and ATC Automation System software management work.



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22 November 2018 (Thursday) – Agenda Item 1

Overall System Planning and Design

SP103 – Standard Terminal Automation Replacement System (STARS) Implementation and Lessons Learned

Mr. Braks Etta; *Senior Air Traffic Representative, Asia Pacific Air Traffic Organization, System Operations, Federal Aviation Administration*



Mr. Braks Etta is the Federal Aviation Administration (FAA) Air Traffic Organization's (ATO) Senior Representative for Asia Pacific, based in Singapore. Mr. Etta has held supervisory roles as Contracting Officer, Program Evaluator, and International Program Officer over his 30-year career with the FAA. As a Program Evaluator, Mr. Etta analyzed and conducted studies on critical programs and processes and improved executive management decision-making through problem analysis and recommendations.

SP 104 – Enhanced Robustness for Provision of ATM Service

Mr. Vincent Wong; *Senior Electronics Engineer, Hong Kong Civil Aviation Department*



Mr. Vincent Wong is a Senior Electronics Engineer of the Air Traffic Engineering Services Division of the Hong Kong Civil Aviation Department (HKCAD). Mr Wong is currently involved with Phase 2 implementation of the Air Traffic Management System (ATMS) following its successful commissioning in November 2016 in addition to some other ATC systems such as Aeronautical Information Management System (AIMS) and a trial SWIM system. Prior to joining HKCAD, Mr. Wong had been with the electronic component manufacturing industry and semiconductor industry for over 10 years in managerial and engineering role.



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22 November 2018 (Thursday) – Agenda Item 1

Overall System Planning and Design

SP105 – Overall System Design and Implementation of Main/Backup ATM Automation System

Mr. Wang Xiao Wei; *Engineer, Air Traffic Management Bureau, CAAC*



Mr. Wang Xiao Wei is from Southwest Regional ATMB, an engineer specialized in ATM automation system. He has been engaged in software test, technical support and system maintenance. He has actively taken part in Chengdu ACC system project, Chengdu Tianfu international airport system and tower integration project.



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22 November 2018 (Thursday) – Agenda Item 2

System Acceptance Tests and Certification Process

SP201 – CNS Equipment Certification and Localization Process in China

Mr. Zhang De;*Regulator of CNS Division, Air Traffic Regulation Office, CAAC*



Mr. Zhang De serves as a regulator for CNS Division, Air Traffic Regulation Office, CAAC. He is responsible for CNS equipment certification of CAAC. He has actively engaged in making policy, rules, regulation, strategy and technical standards in CNS field. Prior to joining ATRO of CAAC, Mr. Zhang served in Technical Center of ATMB, with a background of surveillance and ATC system.

SP202 – Sharing of experience and lessons learned from operational transition to ATM System in Singapore

Mr. Kwek Chin Lin;*Chief ATC Specialist, Civil Aviation Authority of Singapore*



Mr. KwekChin Lin is from Civil Aviation Authority of Singapore and his current appointment is Chief ATC Specialist (Systems Development). He joined CAAS in 1983 and has been working in CAAS for more than 35 years, having accrued ATC ratings in Aerodrome, Area and Approach control when he was an operational controller. After 17 years in active ATC service, he joined the Systems section in late 1999 to participate in the testing and acceptance activities of LORADS II (Singapore's previous ATM system). He stayed on and help developed operational requirements for LORADS III and subsequently helmed the Operational Systems team for testing/validation and operationalization of LORADS III in 2013. Chin Lin is actively involved in ICAO activities and is currently the Chairman of APAC FANS Interoperability Team ASIA, Co-Chairman of APAC AIDC Task force. He is Singapore's Panel member for Communications Panel (Operational Data Link Working Group).



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System Acceptance Tests and Certification Process

SP203 – Software Management for ATM Automation System

Mr. Ren Sen; *Director, Test Evaluation Department of Technical Centre of Air Traffic Management Bureau, CAAC*



Mr. Ren Sen is director of test and evaluation division of technical center in ATMB of CAAC. He has engaged in CNS equipment test and evaluation for decades. He has been responsible for test and accreditation of CNS equipment accessible to CAAC since 2009. He is also charge of ATM automation system software management across ATMB.

Guo Wei; *Air Traffic Management Bureau, CAAC*



Mr. GuoWei is the engineer of ATM Bureau of CAAC. He is responsible for software management of ATM automation system andhas advanced software testing qualifications. He has more than 8 years of experience in operation and maintenance management, deeply involved in the research of ATM Automation system software service architecture and management regulation.



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System Acceptance Tests and Certification Process

SP204– Thailand ATM automation system – Architecture and Acceptance Process

Mr. Pattharasit Phankrawee; *Air Traffic Engineering Manager, Aeronautical Radio of Thailand Limited*



Mr. Pattharasit Phankrawee was born in Bangkok, Thailand on October 30, 1967. He received The Industrial Technology and M. Engineer degree from KMITL, MBA from Chulalongkorn University. He joined AEROTHAI since 1992. He involved with the TOR written, Testing and Configuring the Automation system. His work mainly in Radar Data Processing, Flight Data Processing, Dataset Preparation and system configuration.

SP205 – Implementation of ATM Automation Systems in Indonesia

Mr. Herdianto; *ATS System Specialist, AirNav Indonesia*



Mr. Herdianto is a senior ATC System Specialist in UPG ACC and ATFM Software Development Supervisor. He used to be an air traffic controller for 11 years in TWR and ACC and be a ATC system specialist for 7 years.



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System Acceptance Tests and Certification Process

SP206 – Transition of Shanghai ATM Automation System

Ms. Chen Wen Xiu; *Deputy Director, Technical Support Centre of East China Regional Air Traffic Management Bureau, CAAC*



Ms. Chen WenXiu is the deputy director of Technical Support Center of East China Regional ATMB and is currently responsible for the operation management of Shanghai ATM automation system. In the last 20 years, she deeply involved in the implementation of Shanghai Lockheed Martin ASTEC automation system, the NESACC Eurocat-X automation system, and was in charge of the following NESACC Eurocat-X software and hardware upgrade program, including planning, testing, transition and operation. She also participated in preparing several ATM automation system related regulations of CAAC.



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HMI Adaptation, Real-time Flight Data/Status Synchronization and Major Operational Enhancements

SP301– Data Exchange Technology of ATM Automation System

Ms. Zhu Xiu Ying; Senior R&D Engineer, *Chengdu Civil Aviation Air Traffic Control Science&Technology Co.,Ltd*



Ms. Zhu is the Senior R&D Engineer of Chengdu ATC technology development Co., Ltd. She works in flight data processing, AMAN research and development. The main work includes processing of flight data, and data exchange with external systems. Also, AMAN related research and development, which includes needs analysis, processing flow research, algorithm research and optimization.

SP302 – “Fitness” – Analysis of Main Functions for ATM Automation System

Mr. Wang Yu; *Air Traffic Management Bureau, CAAC*



Mr. Wang Yu is a senior engineer, working in CNS department of Middle and South regional ATMB for more than 15 years. He has been responsible for many projects (NESACC, NEHUP, GTMA, ADSB etc.), making great efforts to work out technical solutions for various ATC systems in the region.



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HMI Adaptation, Real-time Flight Data/Status Synchronization and Major Operational Enhancements

SP303 – Enhancing Air Navigation Safety and Efficiency in Hong Kong FIR Through Implementation of ADS-B

Mr. Charles Leung; *Senior Electronics Engineer, Hong Kong Civil Aviation Department*



Mr. Leung is the Senior Electronics Engineer of the Air Traffic Engineering Services Division (AESD) of the Hong Kong Civil Aviation Department (HKCAD). Mr. Leung worked in radio communication industry for more than 10 years and in the last 5 years, he had highly involved in the implementation of the new Air Traffic Management System (ATMS) in Hong Kong, including the development, implementation, transition, operation and maintenance of the new ATMS in HKCAD. Mr. Leung is currently responsible for the implementation of Air Navigation Service (ANS) systems for the three runway systems (3RS) project for the Hong Kong International Airport (HKIA).

SP304 – Major Operational Enhancement in ATM Automation System

Mr. Puneet Gupta; *Joint General Manager (ATM), Airports Authority of India*



Mr. Puneet Gupta is currently working as Joint General manager(ATM) in the Integrated Planning Group of Airports Authority of India (AAI) looking after ATC automation needs of AAI. A certified ICAO-ACI IAP professional, he has a 20+ years multi-dimensional experience in Aviation industry which ranges from ATC to Airport Administration. Puneet has worked for system adaptation for the Raytheon AutoTrac3 system in Delhi and also developed several software tools to support ATM operations. As an active participant to the R&D team of AAI and through his programming skills, he has helped in generating several concept and operating techniques.



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HMI Adaptation, Real-time Flight Data/Status Synchronization and Major Operational Enhancements

SP305 – The Value and Importance of the Real-time Data Output from ATM Automation System

Mr. Zhang Ti; *Manager, ATFM Liaison, Safety and Flight Operations, IATA*



Mr. Zhang is the Manager of Safety, ATFM Liaison and Flight Operations of IATA (North Asia). He has more than 10 years experiences in operations. Including Air Traffic controller of General Dispatching Office of Operations Management Centre (OMC) of CAAC and Director Engineer in Operations Quality Analysis Office of Operations Supervisory Centre (OSC) of CAAC.

SP306 –Data Collection and Distribution of ATM Automation System

Mr. WangXinRong; *Engineer, Air Traffic Management Bureau, CAAC*



Mr. Wang Xin Rong is from East Regional ATMB, an expert in ATM automation system, working at ACC technical department for almost 10 years. He has participated in EUROCAT-X software and hardware upgrading and STMA projects. He has a great deal of knowledge and experience upon system integration and data collection and distribution interactive with different ones.



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23 November 2018 (Friday) – Agenda Item 4

Future Enabling ASBU Functional Modules for ICAO GANP

SP401 –Flow Management in APAC region

Mr. Li Wen Xin; *Regional Officer ATM (ATFM-CDM), International Civil Aviation Organization*



Mr. Li Wen Xin is the regional officer for air traffic flow management and collaborative decision making in ICAO APAC RSO, based in Beijing, China. Together with his colleagues, Mr. Li has been engaged in the ATFM/CDM development and harmonization in APAC region. Before ICAO, Mr. Li served in the International Air Transport Association (IATA), leading his team to promote aviation safety initiatives and to address the operational issues for the IATA member airlines operating in North Asia region. Prior to IATA, Mr. Li was in service in the Chinese Air Force, responsible for ATM automation program planning and management.

SP402 – Imminent changes of ATM Automation System based on 4D & TBO

Zhang Han Wen; *Senior Software Engineer, LES Information Technology, China*



Mr. Zhang Han Wen is the senior software engineer of Nanjing LES Information Technology Co., Ltd. He has taken a lead role in many ATM system projects and has been specialized in developing ATM system software platform and to promote its innovations. He was graduated from the University of York in UK with a master degree in computer science with distinction and joined LES in 2014.



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SP403 – Thailand ATM automation System – External System Integration

Mr. Chanyut Phrukkumwong; *Air Traffic Engineering Manager, Aeronautical Radio of Thailand Limited*



Mr. Chanyut is Air traffic engineering manager from AEROTHAI. He has joined Aerothai since 1992 and has engaged in various engineering software development including AFTN, ATN, National Flight plan server system. He has led the implementation of ADS-B system and engaged in other modern surveillance programs for AEROTHAI including Wide area multilateration system for en-route and main airports in Thailand, and also relevant surveillance data quality monitoring software. He has also been in charge of verifying external system interfaces to Thailand ATM system. Chanyut has recently been nominated as the ICAO Surveillance Panel member representing Thailand.

SP404 – Application of Space-based ADS-B to ATM and ATFM

Mr. Greg Dunstone; *Engineer, ICCAIA*



Mr. Greg was a specialist engineer with Airservices Australia for 46 years in surveillance and ATC automation roles before he retired and joined Aireon a year ago. He led the technical aspects of the successful TAAATS ATC automation project then added the Maestro flow system before initiating and managing ADS-B introduction in Australia. He chaired the ICAO Asia Pacific ADS-B Task force for 14 years. He is a fellow of the Royal Aeronautical Society and a recipient of the RAeS Lawrence Hardgrave award in 2011. At Aireon he provides engineering and sales support in Asia Pacific.



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SP405 – Air Traffic Flow Sequencer in China (AMAN,DMAN,XMAN)

Mr. Arthur Lebeau; *ATC Systems Architect at Thales Australia Ltd.*



Mr. Arthur Lebeau is ATC system architect at Thales Australia Ltd. He has engineered ATC system solutions within Thales for almost two decades. In the last 10 years, he lead or was involved in system designs deployed in most continents around the world: Asia, Africa, Europe or Americas. Arthur is an aeronautical engineer, graduating from the École nationale supérieure d'ingénieurs de constructions aéronautiques (ENSICA) in France.

SP406– A-SMGCS: New Developments and Functionality

Mr. Dick Langejan; *Sales Director ATM, SAAB*



Mr. Dick Langejan is an expert on Airport Air Traffic Management System and Airport Operations. In 1996 he joined the Netherlands company HITT and he has been involved in projects related to airport surveillance, safety and efficiency at airports in Europe (e.g. Frankfurt Airport - Germany, Domodedovo Airport - Russia, New Istanbul Airport - Turkey), Middle-East (Bahrein Airport) and Asia (e.g. Shanghai Hongqiao and Pudong Airports – China, Delhi and Mumbai Airports – India, Gimpo Airport Korea, Singapore Changi Airport and Taoyuan Airport – Taiwan).After the acquisition of HITT by Saab, Dick was assigned the responsibility for the Saab Air Traffic Management activities in Asia Pacific and he is currently operating from Saab's regional Market Area office in Singapore.



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Future Enabling ASBU Functional Modules for ICAO GANP

SP407 – Integrated Tower System

Wan Yuan; Vice General Manager of ATC Division, *Anhui Sun Create Electronics Co., Ltd*



Ms. Wan Yuan is a vice general manager of ATC division of Anhui Sun Create Electronics Co., Ltd with Ph.D. She has been working in the ATC field as a project manager since 2013 and she has participated in the strategic cooperation between NavCanada and Sun Create as a project manager for Harbin integrated tower system.

SP408 – Need For Standardisation and Guidance Material for Digital Tower and Remote Tower

Mr. Charles Leung; *Senior Electronics Engineer, Hong Kong Civil Aviation Department*



Mr. Charles Leung is the Senior Electronics Engineer of the Air Traffic Engineering Services Division (AESD) of the Hong Kong Civil Aviation Department (CAD). Mr. Leung worked in radio communication industry for more than 10 years and in the last 5 years, he had highly involved in the implementation of the new Air Traffic Management System (ATMS) in Hong Kong, including the development, implementation, transition, operation and maintenance of the new ATMS in HKCAD. Mr. Leung is currently responsible for the implementation of Air Navigation Service (ANS) systems for the three runway systems (3RS) project for the Hong Kong International Airport (HKIA).



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SP409 – Indra Integrated Tower System

Mr. Zhang Chi; Technical Manager, *INDRA BEIJING*



Mr. Zhang Chi is ATM automation system technical manager of Indra Beijing. He is expert in automation and integrated tower system. He has been working in Indra for ten years and involved in many important projects in Asia, including Chengdu ACC and Xi'an ACC in China and Incheon TMA in South Korea. At present, he is technically responsible for integrated tower system for both of Chengdu Tianfu and Shuangliu international airports.

SP410 – Digital Tower : Experience In Sweden

Mr. Dick Langejan; Sales Director ATM, *SAAB*



Mr. Dick Langejan is an expert on Airport Air Traffic Management System and Airport Operations. In 1996 he joined the Netherlands company HITT and he has been involved in projects related to airport surveillance, safety and efficiency at airports in Europe (e.g. Frankfurt Airport - Germany, Domodedovo Airport - Russia, New Istanbul Airport - Turkey), Middle-East (Bahrain Airport) and Asia (e.g. Shanghai Hongqiao and Pudong Airports – China, Delhi and Mumbai Airports – India, Gimpo Airport Korea, Singapore Changi Airport and Taoyuan Airport – Taiwan). After the acquisition of HITT by Saab, Dick was assigned the responsibility for the Saab Air Traffic Management activities in Asia Pacific and he is currently operating from Saab's regional Market Area office in Singapore.



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23 November 2018 (Friday) – Agenda Item 5

System Interoperability Issue between ATM Automation Systems

SP501 – The AIDC Deployment and Implementation in China

Mr. Zhang Wei; *Engineer, Air Traffic Management Bureau, CAAC*



Mr. Zhang Wei comes from North Regional ATMB, specialized in ATM automation system, working at ACC technical department. He has been participated in EUROCAT-X hardware and software upgrading project. He has a lot of experience upon AIDC test and implementation and ATM test platform establishment.

SP502 – Data Integration in Tower

Mr. Chen Xiao Yu; *Engineer, Air Traffic Management Bureau, CAAC*



Mr. Chen Xiao Yu is from North Regional ATMB, working at technical department with highly competent capabilities. He has taken a crucial role in many significant projects (BTMA, Beijing Daxing international airport, NEUP, NEHUP, and AIDC deployment in NATMB). He has obtained profound knowledge and understanding of system analysis, architecture design, integration and implementation, project management and advanced technology research.



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23 November 2018 (Friday) – Agenda Item 5

System Interoperability Issue between ATM Automation Systems

SP503 – System Interoperability of ATM Automation System

Mr. R.R. Bassi; *General Manager (CNS), Airports Authority of India*



Mr. Shri Ravi Bassi is presently holding the post of General Manager in CNS (Planning) Directorate of Airports Authority of India and is well known as a CNS Expert in the international community. Presently, he is responsible for Planning, Procurement, and Implementation of ATC Automation System for Indian airports with vast evolving technology in aviation. His role is to meet the current operational ATC requirement and to meet the time line for implementing complex ATM projects. He is having the vast technical experience of 30 years in aviation industry and served at various ATC centers.

SP504 – Centralized Flight Plan Progress in China.

Mr. Xiao Ao; *Engineer, Air Traffic Management Bureau, CAAC*



Mr. Xiao Ao is from East Regional ATMB, major in flight plan centralized processing system. He works at technical support and maintenance center, mainly and positively engaging in project management and software maintenance, and specializing in FIMS test and implementation.



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23 November 2018 (Friday) – Agenda Item 5

System Interoperability Issue between ATM Automation Systems

SP505– ATC System Interoperability /SWIM IOP R&D Activity in China

Mr. Li Fei ;Technical Director, Beijing EasySky Technology Ltd.



Mr. Li Fei is from Beijing Easy Sky Technology Ltd.(BEST), which is a joint venture between TEDC and Thales. Li Fei is from Real-time Software Engineering background. He has started his career in ATC domain with Thales since 2001 and has been heavily involved in the design, develop, deployment and commission of more than 10 major ATC systems in China. His current role is the technical director of BEST responsible for the ATC system design and R&D activities.



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23 November 2018 (Friday) – Agenda Item 6

Cyber Threats and Mitigation Measures for ATM Automation Systems

SP601 – Cyber Security risks and control of ATM Automation System Regarding Interconnection Environment

Mr. Gong Xin Yu; *Engineer, Air Traffic Management Bureau, CAAC*



Mr. Gong Xin Yu is an engineer working in CNS department of Chongqing ATM Sub-bureau. He has a great deal of experience in the system construction, technical support and maintenance. Since 2012, he has participated in all the construction works of automation systems in the Chongqing area. In the Chongqing T3 airport ATC project, he has taken charge of Main/Backup automation systems, A-SMGCS, and EFS projects.

SP602 – Aircraft Address Issue

Mr. Zhang Shuo; *Engineer, Air Traffic Management Bureau, CAAC*



Mr. Zhang Shuo is from technical center of ATMB, a well-known expert in software configuration management and system validation and verification. He has been working at test and evaluation office for 12 years, taking charge of ATM technology research and V&V laboratory. He owns a great deal of experience and knowledge upon system trouble-shooting, software management and advanced technology application in ATC system.



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23 November 2018 (Friday) – Agenda Item 6

Cyber Threats and Mitigation Measures for ATM Automation Systems

SP603 – Risk-Based Assessment and Enhancement on Management of Cyber Security Threats for ATM Automation System

Mr. He Liang; *Engineer, LES Information Technology*



Mr. He Liang has a doctor degree graduated from Nanjing University of Science and Technology. He is an engineer from Nanjing LES Information Technology Co., Ltd, mainly focusing on general framework design and air traffic flow management for ATM system.