International Civil Aviation Organization

SEVENTH MEETING OF THE ASIA/PACIFIC AIR TRAFFIC MANAGEMENT AUTOMATION SYSTEM TASK FORCE (ATMAS TF/7)

Bangkok, Thailand 2-4 June 2026

Agenda Item 4: ATM Automation System Implementation Experience by States

4.1. Review ATMAS Implementation Status in APAC

CURRENT DEVELOPMENTS IN ATM AUTOMATION SYSTEMS IN SRI LANKA

(Presented by Sri Lanka/AASL)

SUMMARY

This paper presents a brief introduction of the ATM Automation related developments in Sri Lanka in recent years and activity plans in the near future.

1. INTRODUCTION

1.1 Airport and Aviation Services (Sri Lanka) (Private) Limited (AASL) has been entrusted with the responsibility of providing Air Traffic Management (ATM) infrastructure and Air Navigation Services (ANS) within the Colombo Flight Information Region (FIR).

1.2 Sri Lanka remains committed to the continuous evolution of ATM Automation in line with the ICAO APAC Seamless ANS Plan, with the objective of achieving regional interoperability, operational efficiency and sustainable air traffic growth through harmonized ATM modernization initiatives among member States.

1.3 Sri Lanka has achieved several key milestones in accordance with the ICAO APAC Air Traffic Management Automation Systems implementation guidelines and regional vision for ATM modernization.

2. DISCUSSION

2.1 Status of ATM Automation System Implementation in Sri Lanka

2.1.1. The current Air Traffic Management [ATM] system at Colombo Approach Control Center (CAAC) was commissioned for operations in last quarter of 2023 along with below mentioned enhanced functionalities;

a. Automatic Correlation and safety nets including RAM, CLAM, AFDA, MSAW, SSR Code Duplication Warning, Last Known Position Display, etc.

b. Extended Surveillance Data Processing capability including Mode-S surveillance data, ADS-B, Multilateration (MLAT) & Wide Area Multilateration (WAM), etc.
c. Automated QNH corrections capability and Bypass Surveillance Data Processing Function

2.1.2. A new Air Traffic Management (ATM) System with enhanced automation functionalities is planned to be implemented by 2029 at the Colombo Area Control Centre (CACC), in compliance with relevant ICAO provisions, regional ATMAS guidance and future ATM operational requirements.

2.2 Status of Cyber Security Management

2.2.1. Airport and Aviation Services (Sri Lanka) (Private) Limited has established a Cybersecurity Steering Committee and developed a Cybersecurity Policy for CNS/ATM systems to mitigate potential cyber threats. The Steering Committee conducts monthly meetings to review cybersecurity threats, vulnerabilities and mitigation measures related to operational systems.

2.2.2. Cybersecurity consultancy activities, assessments, and audits are conducted collaboratively with Sri Lanka Computer Emergency Readiness Team (SL-CERT) and Civil Aviation Authority of Sri Lanka (CAASL) for periodic cybersecurity assessment, risk evaluation, and implementation of mitigation measures for CNS/ATM systems.

2.3 Status of AIDC Implementation in Sri Lanka

2.3.1. Sri Lanka's ATM automation systems are capable of supporting the AIDC ICD Version 3.0 interface.

2.3.2. Trial operations conducted with Malé have progressed successfully without any reported technical or operational issues. In addition, the AIDC trials with Chennai Centre have been successfully completed, and based on the satisfactory outcome of the trials, and awaiting the return of the finalized document forwarded for India's formal approval to facilitate the commencement of operational implementation. Chennai has further confirmed that no additional trials are required. Approval from Australia is currently awaited to commence the planned trial operations. Meanwhile, Indonesia has informed that modifications to their existing system are required to support AIDC trial operations with Sri Lanka.

2.3.3. Sri Lanka's operation of AIDC links is using AMHS network. In the AIDC electronic handover, Sri Lanka mainly uses ten types of core AIDC messages, including ABI, EST, CDN, ACP, TOC, AOC, MAC, REJ, LAM and LRM. The system is capable of handling PAC, TRU, FAN, FCN, ADS messages.

2.3.4. Recognizing the importance of AIDC in enhancing air traffic safety and operational efficiency, Sri Lanka plans to fully implement AIDC electronic coordination and handover with adjacent States by end of 2027.

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

a) note the information contained in this paper; and

b) discuss any relevant matter as appropriate

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