International Civil Aviation Organization

Fifteenth Meeting of the Asia/Pacific Air Traffic Flow Management Steering Group (ATFM/SG/15)

Bangkok, Thailand, 28 April – 02 May 2025

Agenda Item 5: A-CDM Operations and A-CDM/ATFM Integration

A-CDM IMPLEMENTATION IN AUSTRALIA

(Presented by AUSTRALIA/ AIRSERVICES AUSTRALIA)

SUMMARY

This paper presents Airservices Australia implementation of an integrated A-CDM system in collaboration with key partners at our 4 major ATFM ports.

A-CDM will improve airport operations through the sharing of data via a common platform managed by the ANSP so all participants can make informed decisions to efficiently manage the arrival, turnaround and departure phases of aircraft

1. INTRODUCTION

1.1 Through 2025 Airservices Australia, in partnership with our vendor and key partners, will be implementing an integrated A-CDM across our 4 major ATFM ports.

1.2 A-CDM has been implemented in over 50 airports globally and is normally implemented as a single airport system which results in different systems used by different airports without integration and can impact ATFM efficiencies.

1.3 Airservices Australia will be implementing an integrated single system over our four major airports of Brisbane, Perth, Sydney and Melbourne managed by the ANSP.

2. DISCUSSION

Implementation and benefits

2.1 A-CDM will deliver significant benefits to individual operators and the wider aviation industry. These benefits include fuel and emissions reduction for airlines as well as improvement to use of assets and support functions.

2.2 A-CDM will enable airport to plan for greater utilisation of resources and assets and build the foundations for further innovation in supporting stakeholders and pre-tactical and tactical planning for the airport.

2.3 A-CDM is expected to provide significant operational efficiencies through pre-departure sequencing and optimised departure flows leading to less congested taxi ways and fewer delays on the tarmac for passengers. A-CDM will also deliver enhanced real time situational awareness and unlock improved access to operational performance data.

2.4 Airservices will be completing a staged rollout of A-CDM one airport at a time to allow operators and airport to embed the procedures and processes with single port support from Airservices and the vendor.

2.5 The delivery of A-CDM will enable improvements in:

2.5.1 Situational Awareness: through the use of common, real time data shared between operators, airports and ANSP

2.5.2 Operational Efficiency: through the optimization of push-back timing and pre-departure sequencing that accounts for gate usage at the A-CDM departure and destination ports

2.5.3 Asset & Resource Utilisation: better planning of gates, taxiway and parking bay usage with the added benefit of assisting with efficient airspace usage.

2.5.4 Customer Experience: Improved OTP, predictability and recovery from adverse events

2.5.5 Cost Savings: through reducing inefficiencies in gate usage and taxi time etc airlines will see reduced fuel usage and improvements to scheduling at departure and arrival ports.

2.5.6 Environmental Benefits: Through reduced taxi time, reduced wait time at holding point, efficient use of airspace and reduced fuel burn we will see lowered CO2 emissions.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

a) note the information contained in this paper; and assist with information sharing to international operators scheduled to operate in Australia.

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