ATFM in the Asia/Pacific Region

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Topics

• Challenges

• Asia/Pacific Region ATFM Planning
  • Concept and Framework

• Asia/Pacific Region ATFM Activities
Challenges

• Demand
  • Largest Region: 33% of global traffic, 10.2% growth
• Capacity Constraints
  • Airspace (AOM, SUA, ATC separation)
  • Airports
• Harmonization and interoperability
  • Need for cross-border ATFM
  • Flights crossing multiple small FIRs
  • No central ATFM or network operations capability
Asia/Pacific ATFM Planning

- Regional ATFM Concept of Operations
- Regional Framework for Collaborative ATFM
- ICAO APAC eDocuments
Asia/Pacific ATFM Concept of Operations

- Key concepts
  - Distributed multi-nodal ATFM network
  - Delay absorption intent
  - Slot swapping
Asia/Pacific Framework for Collaborative ATFM

Global Vision
- Global Air Traffic Management Operational Concept (Doc 9854)

Global Strategy
- Global Air Navigation Plan (Doc 9750)
- Global Aviation Safety Plan (Doc 10004)

Regional Vision
- Asia/Pacific Region Air Navigation Plan (Doc 9763)

Regional Implementation Strategy
- Asia/Pacific Seamless ATM Plan (incorporated into eANP Vol. I), including:
  - Asia/Pacific Regional ATM Framework
  - Regional ATM Contingency Plan (draft)
  - Asia/Pacific Search and Rescue Plan
  - AMS, NAV and SUR strategies

Regional Reporting
- Global Air Navigation Report
- Global Safety Report
- Asia/Pacific Regional Dashboard

Regional Implementation Monitoring
- Asia/Pacific Regional Picture

Regional Implementation Reporting
- Seamless ATM Reporting

Regional Guidance Material
- Seamless ATM Guidance Material
- State Seamless ATM Plan Template

Administered by ICAO Regional Office

ASIA/PACIFIC FRAMEWORK FOR COLLABORATIVE AIR TRAFFIC FLOW MANAGEMENT

Version 2.0 September, 2016

This Plan was developed by the Asia/Pacific Air Traffic Flow Management Steering Group (ATFM/SG)

Approved by APAN/IRG/26 and published by the ICAO Asia and Pacific Office, Bangkok
Asia/Pacific Framework for Collaborative ATFM

- References the ATFM Concept of Operations
- Aligned with ICAO Doc 9971
- Includes:
  - Background information and guidance
  - Performance Improvement Plan for Regional ATFM Capability
Asia/Pacific Framework for Collaborative ATFM

- Performance Improvement Plan for Regional ATFM Capability
- Phase IA expected implementation 12 November 2015
- Phase IB expected implementation 25 May 2017
- Phase II expected implementation 8 November 2018
Asia/Pacific ATFM Activities

- Multi-Nodal ATFM Operational Trial
  - Australia, China, Hong Kong China, Indonesia, Malaysia, Singapore, Thailand, CANSO, IATA

- North Asia Region ATFM Harmonization Group (NARAHG)
  - China, Japan, Republic of Korea

- Bay of Bengal Cooperative ATFM System (BOBCAT)
  - AEROThai and participating ANSPs/Airlines
Asia/Pacific ATFM Activities

- APAC Meteorological Requirements Working Group (MET R/WG)
  - Developing guidance for MET information for ATM
  - Joint working sessions with ATFM/SG
- APAC A-CDM Task Force (APA-CDM/TF)
  - 2nd Meeting Nov/Dec 2017
- APAC Common Aeronautical VPN Task Force/Operations Group (CRV/TF ➔ CRV/OG)
  - Implementation of a common virtual private network for aeronautical communications
Asia/Pacific ATFM Activities

• Operational Requirements Document/Interface Control Document (ORD/ICD)
  • ATFM/SG project
• Information exchange: what, who, where, when and how
  • Early stage of development
  • Using Multi-Nodal ATFM Trial experience
  • Major input from Trial Technical Sub-Group
• FIXM Extension
• Mini-Global Trial
  • Multi-nodal trial group partners
33% of global traffic

10%++ p.a. growth
Thank You