



ATFM in the Asia/Pacific Region

ICAO ATFM Global 2017 Symposium Singapore

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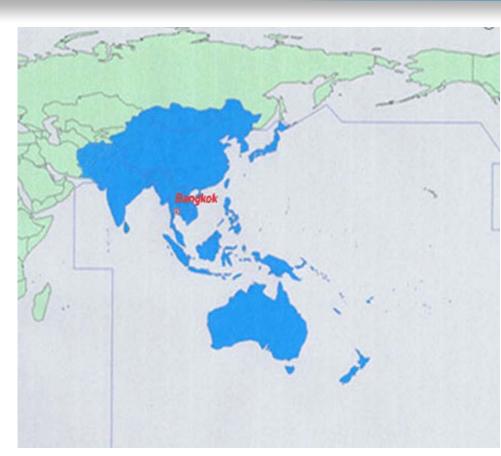






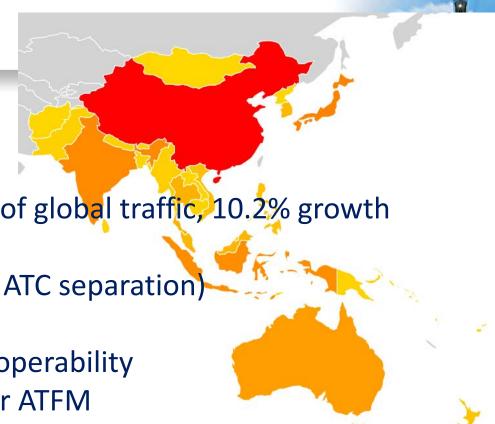
Topics

- 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 REGIONAL AIR TRAFFIC FLOW MANAGEMENT CONCEPT OF OPERATIONS

Version 1.0 September 2015

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

Asia/Pacific ATFM Concept of Operations

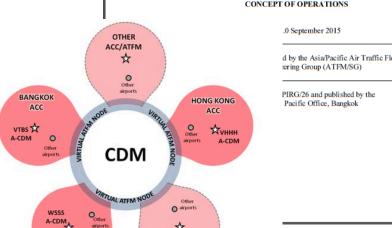
- Key concepts
 - Distributed multi-nodal ATFM network
 - Delay absorption intent
 - Slot swapping





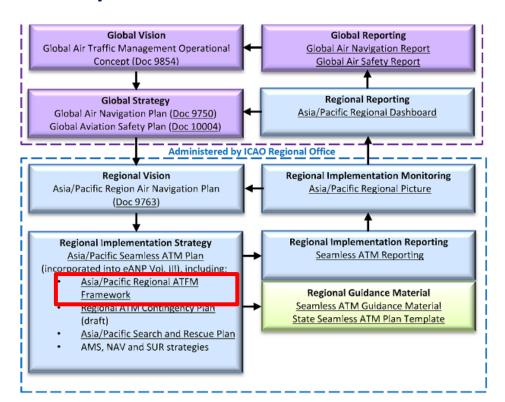
ASIA/PACIFIC REGIONAL AIR TRAFFIC FLOW MANAGEMENT

> d by the Asia/Pacific Air Traffic Flow sering Group (ATFM/SG)





Asia/Pacific Framework for Collaborative ATFM





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)



- References the ATFM Concept of Operations
- Aligned with ICAO Doc 9971
- Includes:
 - Background information and guidance
 - Analysis of current situation (2014-2015)
 - <u>Performance Improvement Plan for</u> Regional ATFM Capability



ASIA/PACIFIC FRAMEWORK

OR

COLLABORATIVE AIR TRAFFIC FLOW MANAGEMENT

Version 2.0 September, 2016

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- <u>Performance Improvement Plan for</u> <u>Regional ATFM Capability</u>
- Phase IA expected implementation
 12 November 2015
- Phase IB expected implementation25 May 2017
- Phase II expected implementation 8 November 2018



ASIA/PACIFIC FRAMEWORK

OP

COLLABORATIVE AIR TRAFFIC FLOW MANAGEMENT

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Asia/Pacific ATFM Activities

- Multi-Nodal ATFM Operational Trial
 - Australia, China, <u>Hong Kong China</u>, Indonesia, Malaysia, <u>Singapore</u>, <u>Thailand</u>, 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 communciations





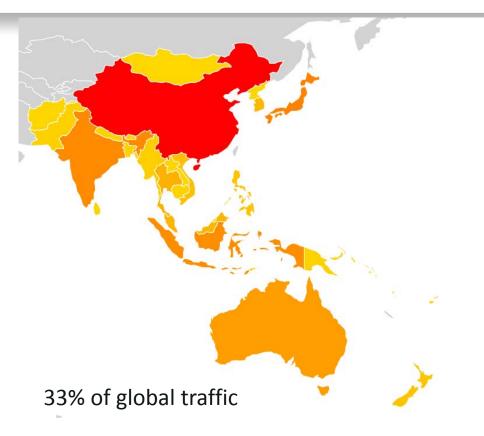
Asia/Pacific ATFM Activities

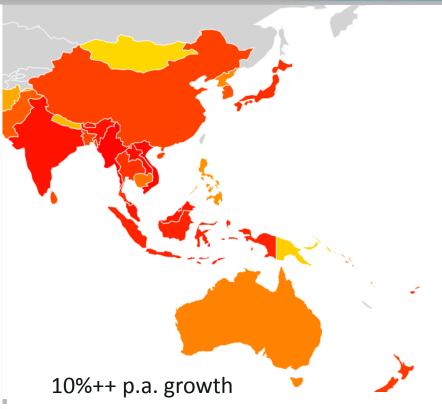
- Operational Requirements Document/Interface Control Document (ORD/ICD)
 - ATFM/SG project
- Information exchange: what, who, where, when and how
 - Early stage of development
 - Using Multi-Nodal ATFM Trial experience
 - Major input from Trial Technical Sub-Group
- FIXM Extension
- Mini-Global Trial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



NO COUNTRY LEFT BEHIND







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THANK YOU