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ATFM Information Exchange Planning in the Asia/Pacific Region

ICAO ATFM Global 2017 Symposium

Singapore

20 – 22 Nov 2017

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Asia/Pacific Framework for Collaborative ATFM

- (Link)
- Specifies ATFM information transfer expectations
- ATFM terminology
- ATFM system communications
- ATFM information distribution
- ATFM communication by AFS
- ATFM Phraseology



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 APANPIRG/26 and published by the
ICAO Asia and Pacific Office, Bangkok



ATFM Terminology

- Developed by ATFM Steering Group (ATFM/SG)
 - Team of international experts
 - Considered current terminologies in use globally by ATFM-provider States and organizations
 - Standardized terminology for all APAC States
 - **Essential for interoperability and cross-border ATFM**
 - Included in update ICAO Doc 9971 – Manual on Collaborative ATFM
 - Minor diffs require Framework update



ATFM System Communications

- Framework states:

FIXM version 3.0 (or later), extended where necessary to accommodate additional regional requirements, is the agreed ATFM information exchange model for exchanging ATFM data between ATFM systems in the Asia/Pacific Region.

But.....



ATFM System Communications

- ATFM elements removed from FIXM version 4.0
- Not expected to be re-included until FIXM version 5.0 (2020)
- ATFM/SG/7 (May 2017)
 - Noted the lack of ATFM elements in FIXM
 - Significant barriers to cross-border ATFM in APAC
 - Contribute to failure to meet Framework timelines
 - Agreed to develop FIXM extension
 - In coordination with APAC SWIM/TF
 - Extension intended to be certified by FIXM CCB.



ATFM System Communications

- 12 data attributes for Asia/Pacific FIXM Extension

Estimated	Calculated	Actual	Applicable
EOBT	COBT	AOBT	Terminal Gate
ETOT	CTOT	ATOT	Departure Runway
ETO	CTO	ATO	RFIX or AFIX
ELDT	CLDT	ALDT	Arrival Runway

- **COBT** and **ETOT** additional to Framework-defined minimum



ATFM Information Distribution

- Networked, web-based interface (network of all actors and stakeholders)
- Web-based interface directly to ATFMU responsible for constrained airspace/airport
- AFTN messages distributed to individual ATSU's (e.g. CTOT)
 - *EUROCONTROL ATS Data Exchange Presentation (ADEXP)*
- Email distribution (ATFM daily Plan) or
- Voice coordination
 - Phraseology (ATC to pilot) defined in Framework



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