ATM Multi-Nodal Network Flow Coordination



Collaborative Decision Making

Significant Convection Monitoring and Forecast Forecast valid from 06 UTC 25 Jul 2018 to 18 UTC 25 Jul 2018 05:54 - 06:54 UTC Vicinity of HKIA Prepared at 0554UTC 25 Jul 2018 Forecast for HKIA UTC 10 | 11 | 12 13 | 14 | 15 Overall 07 Headwind 25 Headwind **FIR** Visibility 110E 111E 112E 113E 114E 115E 116E 117E 118E 119E Prepared at 0602UTC 25 Jul 2018 TS/CB forecast for adjacent areas CAPACITY RELATED INFORMATION VHHH (FOR ARRIVALS) UTC VALID: 250800 to 251600 UTC 20nm of ARP CAPACITY LEVEL: 1 ABBEY **ADP** AIRPORT ACCEPTANCE RATE: 33 flights per hour BETTY Within EXPECTED DELAY: Up to 15 mins CANTO REASON: -**20 NM** 3 Times Daily MET Webcon & HPs

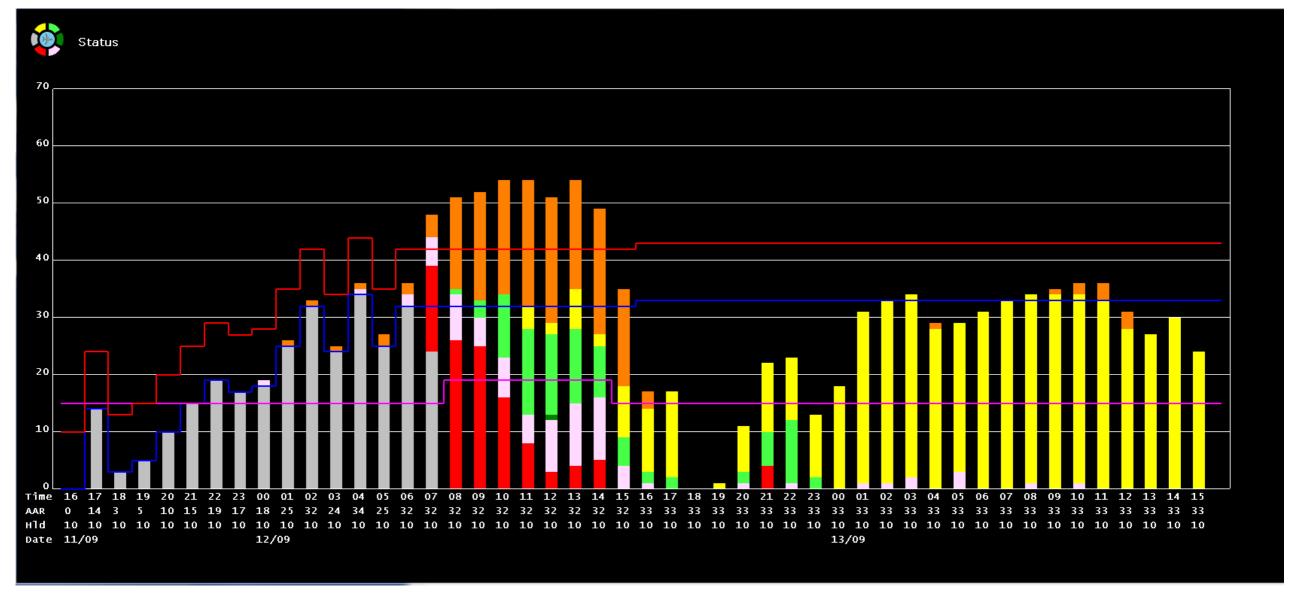
Airport Acceptance Rate (AAR) Calculator

		Capacity	Notifica	tion			
		Capacity	Notifica	ШОП			
Expected Runway	[™] 07.						
·	FACILITIES						
Runway Availability	Dual Single (Rwy Maint)						
	୍ Single (Da						
Approach	□ ILS/RNAV	∕ ດ VOR					
		WE	EATHER				
	DIR	SPD	X/W	H/W	Note:if SFC wind > 20kts,		
WIND	ຶ070 _	5	0	5	Enter 1000' wind		
VIS/RVR(m)	້5000 ຼ						
CLOUD CEILING (BKN+)	ຶ3000 _						
TS/CB in 20NM?	Nil/Green ○ Yellow ○ Red Isolated ○ Broken ○ Extended TS						
Available Arrival Feeds	© 3 C 2 C 1 C 0						
		OTHE	R FACTORS				
Additional Spacing (WX/AWK?)	"0 ."						
Mode of Operation							
Final Spacing		NM					
Final Speed		kts					
Airport Acceptance							
Rate							
Capacity Level							
Expected Delay							
Critical Factors							
Remarks	-1 r						

Calculate

Demand/Capacity Assessment

 Runway capacity + max airborne delay exceeded = ATFM Measures



ATFM Daily Plan (ADP)

ATFM DAILY PLAN	HONG KONG
DATE / TIME OF ISSUE	26 JUL 2018, 2205 UTC
STATUS / REFERENCE	EFFECTIVE - 26 JUL 2018 HK 01

CONSTRAINTS AND IMPACT						
LOCATION	PERIOD (UTC)			DETAILS	REMARK	
VHHH	26 JUL 2018	0000	0800	expect upto 15 min delay due isolated thunderstorm	AAR=32	

ATFM MEASURE				
LOCATION	ATFM MEASURE PERIOD (UTC)			ATFM MEASURE
	26 JUL 2018	0000	0600	expect AFTM measures due to isolated thunderstorm

POSSIBLE / DEVELOPING ISSUES					
LOCATION	PERIOD (UTC))	REMARK	

WEATHER BRIEFING

Isolated thunderstorm affecting western part of the HKFIR until 0600

AIRSPACE STATUS BRIEFING

OTHER INFORMATION

Normal AAR=34

CTOT compliance window -5/+10 minutes.

FOR CHANGES TO FLIGHTS, PLEASE CONTACT:

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Secondary: Hong Kong ATFMU Phone Line: +852 2910 6275

Email: hkatfmu@cad.gov.hk

ATC Operational Plan Web Conference



Regional ATFMU Web Conferencing

- Weekly Core Group web conference
 - With AEROTHAI, CAAS, CATS, ATMB (GZH/Sanya)
 etc/ (MN Level 3)
- Discuss longer term impact events i.e. 2-5 days
- Conducted from Strategic Flow Management
 Center

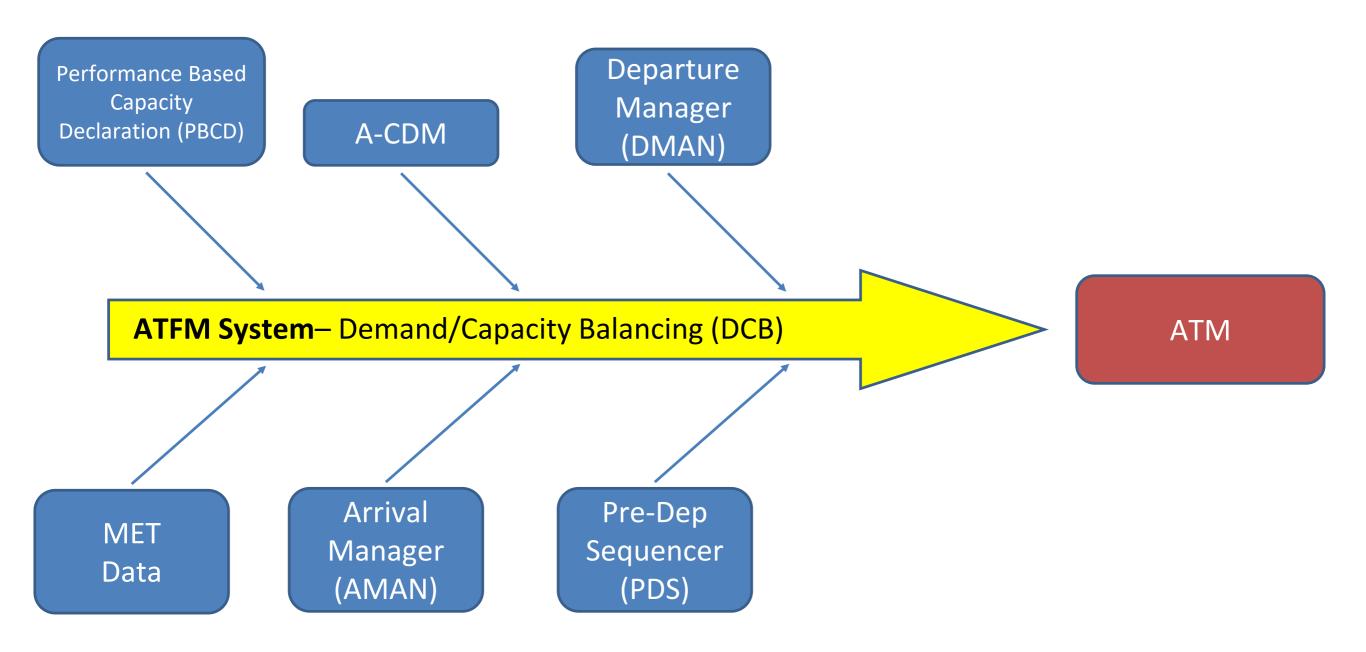


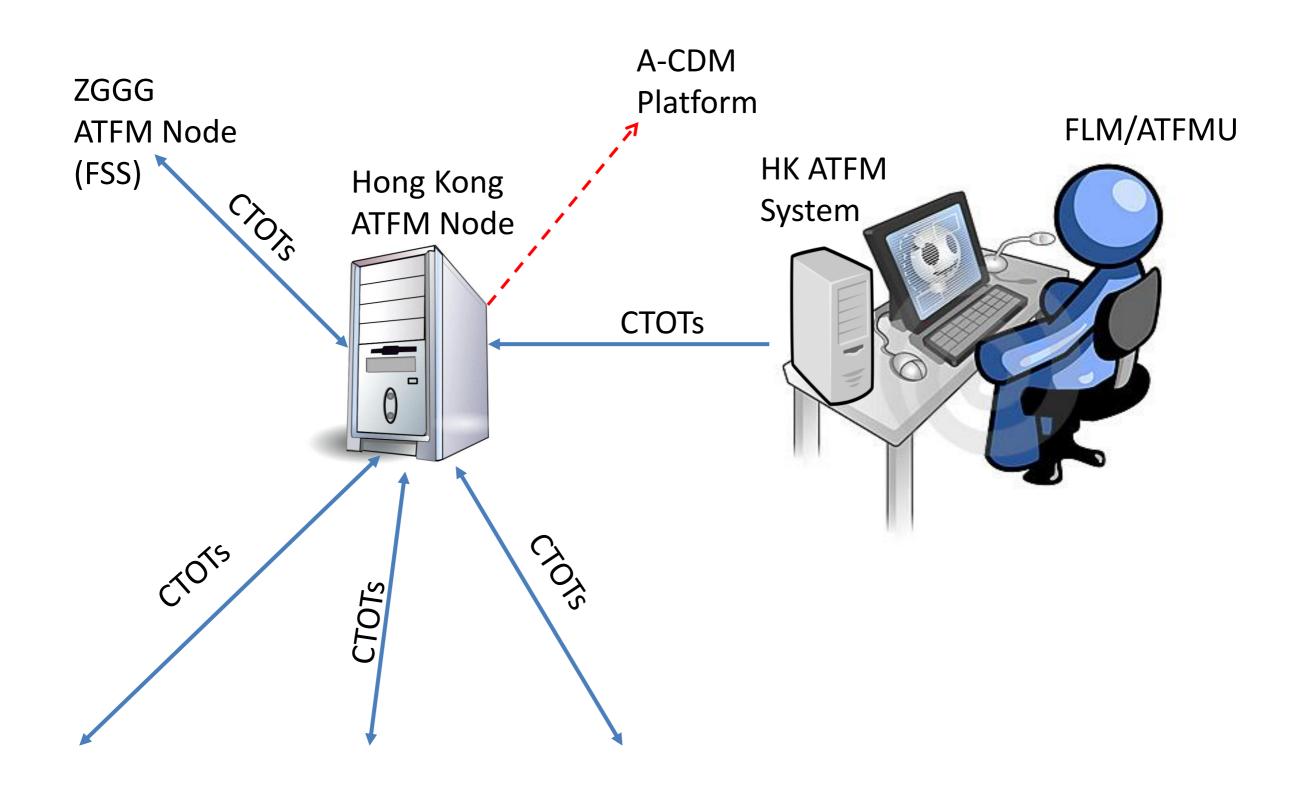
APAC ATFM NETWORK

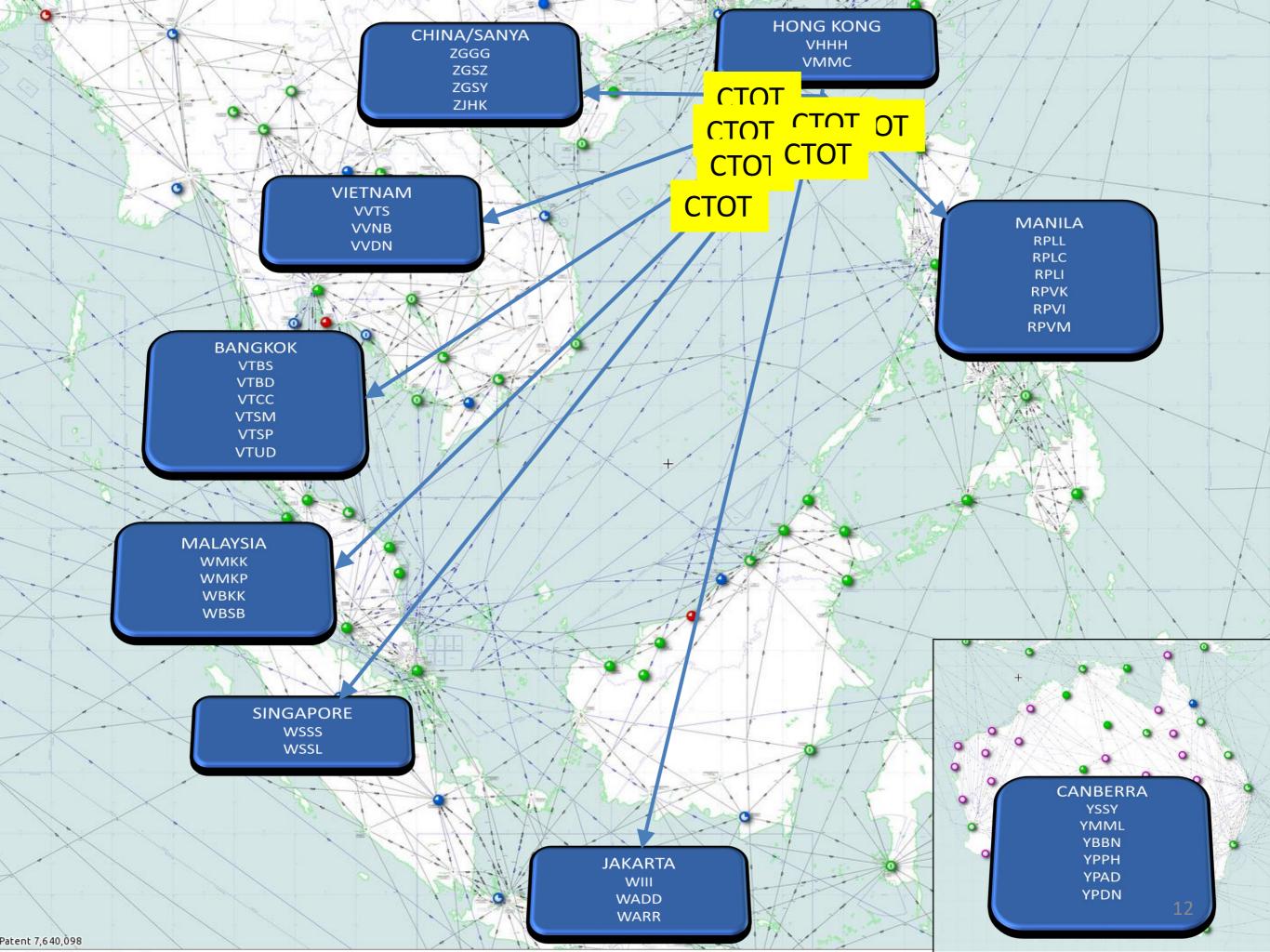


ATFM System: The Backbone of ATM

 Data from multiple systems can enhance the demand/capacity balancing process. The ATFM system is the appropriate location for data integration and network sharing







APAC ATFM Network

- Still very much WIP
- Some ANSPs using dedicated web portals, some via AFTN messaging, some still relying on Email
- Prospect of a proliferation of discrete web portals creates problems for Airspace Users
- No direct system to system interoperability at this stage
- Interim: Adapting existing AFTN Network messages –SAM/SRM/SLC

ATFM/IR/SWG

- Under ICAO ATFM/SG
- Task: Draft a tech requirement roadmap and Interface Control Document (ICD) for system to system linkage
- Web-based solution for exchange of ATFM information
- Eventually, ATFM data exchange will be supported by FIXM on SWIM-based technology

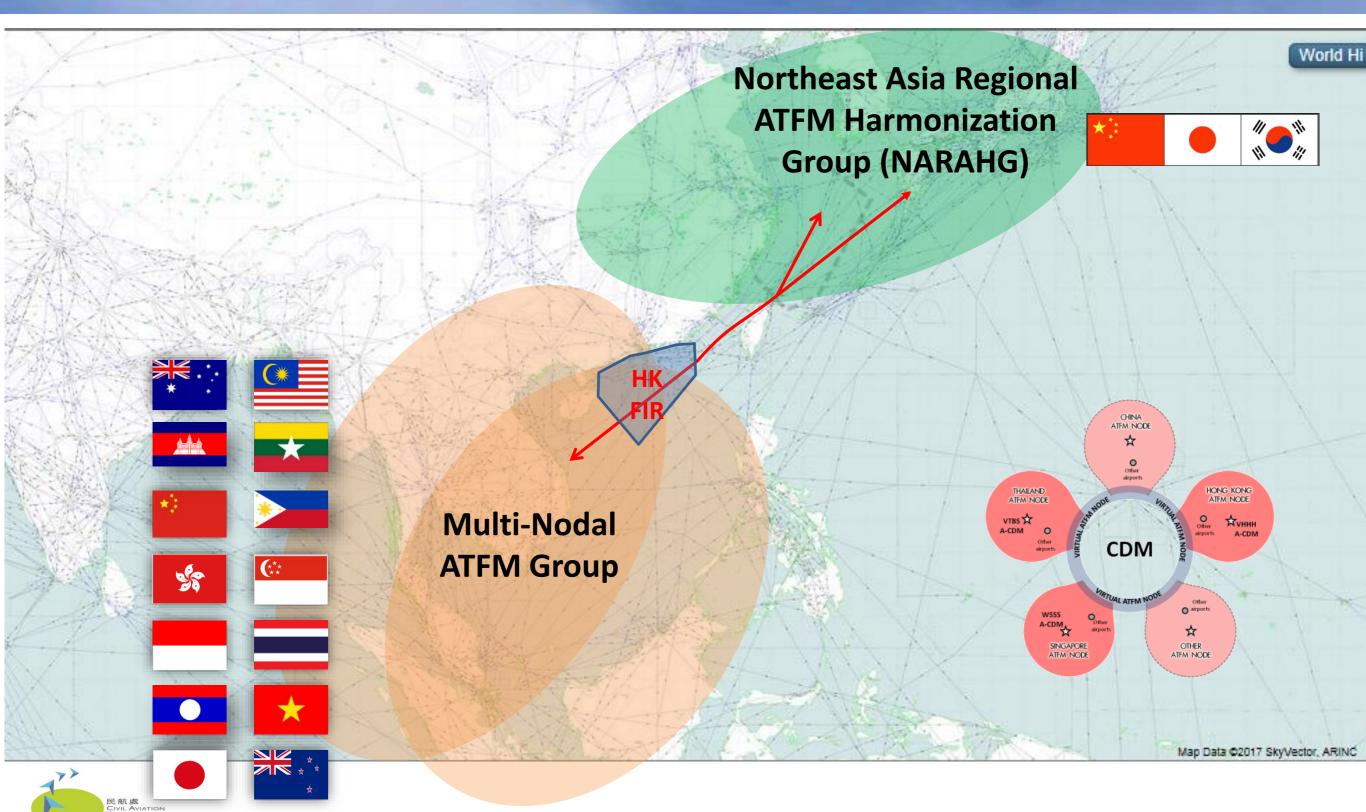
ATFM/IR/SWG

- Development of Operational scenarios
- Common Min. User Interface requirements
 - Flight Creation
 - Flight Update
 - CTOT Distribution and Cancellation
 - CTOT Management
 - ATFM Measure Plan and Activation
- End-State system to system interface (ICD)

FIXM 4.1 Extension

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

ATFM Network Trial Groups



Common Regional Overview



Thanks!

Questions?