

A United Nations Specialized Agency

ATFM Overview

Workshop on Air Traffic Flow Management (ATFM) Implementation for the CAR and SAM Regions (Panama City, Panama, 25 to 29 May 2015)

> By: Carlos Gonzalez ICAO, Regional Officer, ATM



A United Nations Specialized Agency

What is ATFM?

A service established with the objective of contributing to a safe, orderly and expeditious flow of air traffic by ensuring that ATC capacity is utilized to the maximum extent possible, and that the traffic volume is compatible with the capacities declared by the appropriate ATS authority.





Balance air traffic demand with system capacity to ensure system efficiency of the National Airspace System





A United Nations Specialized Agency

What is ATM?

The dynamic, integrated management of air traffic and airspace including air traffic services, airspace management and air traffic flow management safely, economically and efficiently — through the provision of facilities and seamless services in collaboration with all parties and involving airborne and ground-based functions



A United Nations Specialized Agency

What is Air Traffic Management System?

A system that provides ATM through the collaborative integration of humans, information, technology, facilities and services, supported by air and groundand/or space-based communications, navigation and surveillance.

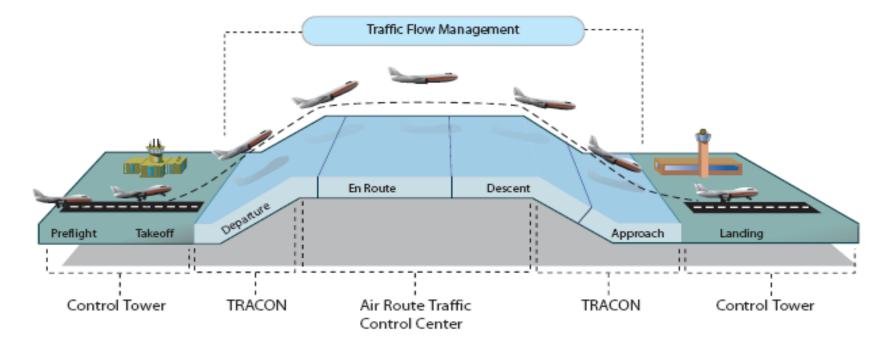


A management approach that considers the impact of individual actions on the whole.

- Considers impacts and focus on ensuring equity in service delivery
- A system approach collaborating with stakeholders.
- Stakeholders consider costs and benefit to the system



Phases of a Commercial Flight



From the beginning of an IFR flight until the end, Traffic Flow Management has a role to play



Traffic Flow Management Initiatives Miles-in-trail (MIT) Ground Delay Program (GDP) Airspace Flow Program (AFP) Ground Stop (GS)



A United Nations Specialized Agency

Miles-in-Trail (MIT)

- Miles-in-trail describes the number of miles required between aircraft departing an airport, over a fix, at an altitude, thru a sector, or route specific.
- MITs are used to apportion traffic into a manageable flow, as well as provide space for additional traffic to enter the flow.



A United Nations Specialized Agency

Ground Delay Program GDP

- A GDP -- aircraft are delayed at departure point to manage demand at their destination.
- Flights are assigned departure times
- GDP implemented at airports where capacity has been reduced or when demand exceeds capacity for a sustained period.
- The purpose of the program is to limit airborne holding



A United Nations Specialized Agency

Airspace Flow Programs (AFP's)

- AFP's are like GDP's in the Air.
- Provides enhanced en route traffic management during severe weather events.
- An AFP develops a real time list of flights that are filed into a constrained area and distributes controlled departure times to meter the demand through the area.



A United Nations Specialized Agency

Ground Stops (GS)

- Requires aircraft to remain on the ground.
- Occur with little or no warning.
- Used in severely reduced capacity situations (weather) or to preclude sector/center reaching near saturation levels or airport grid lock.
- When routings are unavailable due to severe weather.
- When routings are unavailable due to catastrophic events.





www.icao.int/nacc

Regional Officer: Mr. Carlos Gonzal Associate: Ms. Leslis Gandara Contact: nacc-tc@icao.int





