

SCOPE

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- A CDM, AMC (Airport Management Center)
- A CDM Initiatives To Improve Performance
- Conclusion





INTRODUCTION

Air Traffic & Navigation Services (ATNS)

Services Provided

- Air traffic Management,
- Navigation and
- Associated services in South Africa

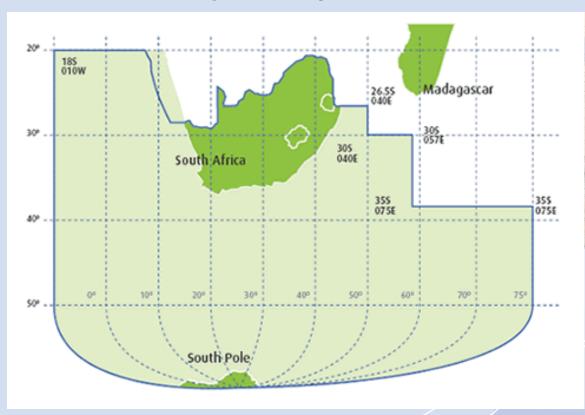
In addition to its services, ATNS provides vitally important aeronautical information, search and rescue coordination activities and maintenance of a reliable navigation infrastructure.

ATNS is responsible for air traffic management in approximately 10% of the world's airspace.



INTRODUCTION (Cont....)

ATNS Area of Responsibility







INTRODUCTION (Cont....)

Central Airspace Management Unit - CAMU

- Established in 2001, at the O R Tambo ATC Centre.
 - Responsible for the management of air traffic flow and capacity
 management within South African sovereign and delegated airspace
- Provide safe and expeditious Air Traffic Flow management, meeting the reasonable requirements of the regional and
 - national aviation community

ATFM STATUS & SYSTEMS USED

ATFM STATUS

- ATFM capacity initiatives deployed daily in the main South African airports (the golden triangle)
- All inbound/outbound traffic comply with allocated CTOT
- Airline has ability to amend CTOT to suit current changes to operational plans – via CAMUweb - CDM Tool

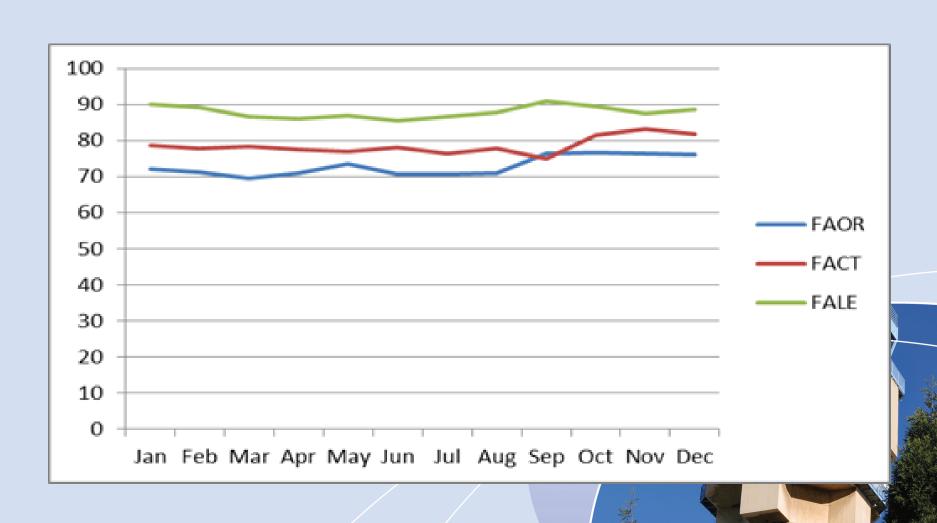
Systems Used

- AFT, JHMI, Anais,
- Eurocat
- SAWS Wx System &
- CAMUweb





CTOT Compliance - 2016



ATFM CURRENT INITIATIVES & CHALLENGES

Initiative title	Objective	Status	Expected outcome
Ongoing CTOT compliance (ATSU & Airline Ops) Monitoring	To continue monitoring CTOT non compliances by ATSU and Airline and provide necessary training where required	 Continued lack of understanding from some operators and overall lack of discipline Investigating standardisation of CTOT training/recurrence to ATSU and Airline operators, including ACSA AMC reps 	 Enhanced knowledge on ATFM efficiency objectives Improved CTOT compliance
Systems Integration (ACSA AMC & ATNS CAMU)	Improve information sharing between systems	 Elements of the systems to be shared have been identified and System specialists from both parties are working on providing platforms for the exchange 	Reliable system communications for improved data exchange/sharing
FQMA ATFM trials	To improve predictability of traffic from neighbouring countries inbound into the three (3) coordinated airports within South Africa	 The trial has been running for over 2 years and FQMA CTOT compliance has improved from the unmonitored average of between 30% - 40% to 60% - 70%. Talks initiated with other neighbouring/bordering countries (FBSK & FVHA) for similar trial 	 Improved traffic predictability Enhanced knowledge on ATFM efficiency objectives for neighbouring countries

A- CDM – AMC (Airport Management Center)

- Three (3) AMC Implemented for the Golden Triangle airports i.e. FAOR, FACT & FALE
- Provides A-CDM platform for the aviation community



A- CDM INITIATIVES TO IMPROVE PEFORMANCE

Initiative title	Objective	Status	Expected	Data collaboration
			outcome/Outcome	elements/Notes
Flight prioritization during irregular operations	Develop a transparent framework to allow for the prioritization of flights during or after irregular operations.	Delayed due to ongoing stakeholder engagements.	 a) Reduce the net impact of events that affects the performance of the airport b) Reduction in cancellations c) Reduction in 24hr delays for long haul traffic 	a) Updated flight plans b) EOBT c) CTOT d) Ramp handler demand plan e) Crew location i.e. at hotel or already signed-on f) Airport curfews and curfew extension decisions
Performance recovery: Adverse weather	To anticipate adverse weather a proactively work with key role-players to manage the pre; during and post phases of adverse weather.	Work in progress. The advancement of the RvRDP (delivered by SAWS) will see us conducting a trial period over this thunderstorm season.	 a) Jointly developed tactical plan b) Reduced safety incidents c) Reduction in airport delays 	a) Now forecasting (short term weather forecast) b) Airside service provider demand c) Flight prioritization decisions d) CTOT

A- CDM INITIATIVES TO IMPROVE PEFORMANCE

Initiative title	Objective	Status	Expected outcome	Data collaboration elements/Notes
Performance recovery: TIR (Turnaround Initiative Request)	To leverage off the ACSA airport network and three AMCs to reduce rotational delays on a flight by flight basis.	Trial period concluded in 2016. Learnings incorporated into a new approach that expands the performance recovery concept beyond just registrations with rotational operations in South Africa.	a) Improved "end of day" performance b) Increased airport network and ATM collaboration.	N.B. Initial focus was only on the aircraft however as the trial progressed passengers and baggage were considered which presented various decision making challenges.
Delay management: Pushback delays	Reduce delay occurrence "delayed pushback due to traffic in the lane".	Completed in 2015. Due for review.	a) Stand allocation approach revised to incorporate pushback conflict	a) Slot time b) Collaborate with service providers on next day parking bay plan
Performance improvement: 4 worst performing international airlines	Improve the departure punctuality of the 4 lowest performing international airlines in 2015.	Completed in 2016. Learnings carried over to lowest performing international carriers in 2016.	End of 2016 results saw a collective improvement of 13%. One of the carriers improved by 103%.	 i. All turnaround milestones were studied and addressed. ii. Common reason for poor punctuality across the 4 airlines was late arrival with a short ground time.

CONCLUSSION

- ATFM/ACDM integration will promote timely and effective coordination and collaboration with all affected stakeholders;
- Systems integration will enhance or optimize resource utilisation and improve traffic predictability.







Thank You

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