



The David J. Hurley Air Traffic Control System Command Center

Air Traffic Flow Management
Traffic Management Initiatives

Panama City, Panama



Federal Aviation
Administration



Traffic Management Initiative

Traffic Management Initiative (TMI)

technique used to manage demand with capacity in the NAS

Properly coordinated and implemented TMI

contribute to the safe and orderly movement of air traffic

Any TMI creates an impact

consider this impact and implement only those initiatives necessary to maintain system integrity

Maintaining the integrity of the NAS

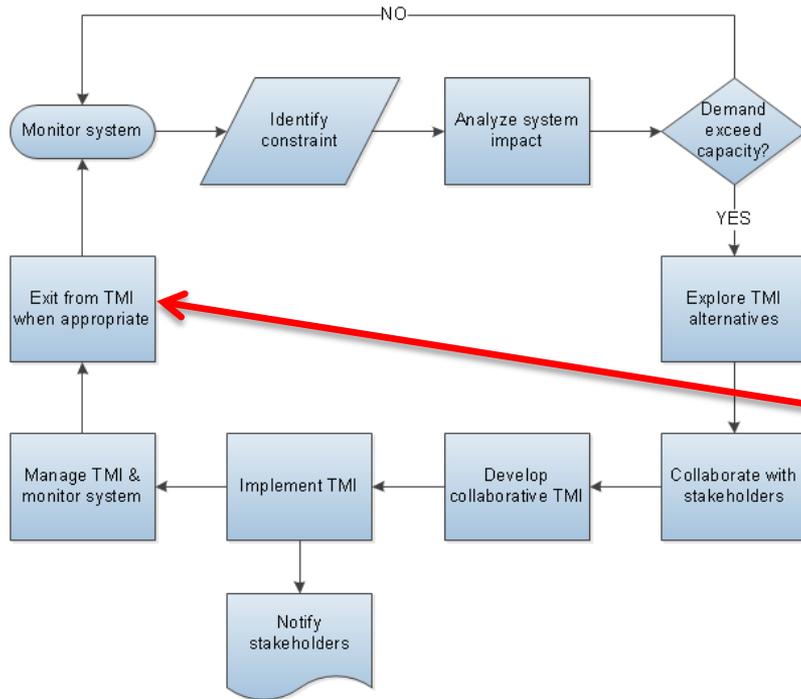
employ the least restrictive methods available to minimize delays



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TMI Process



Process for all Traffic Managers

Explore TMI with entire system consideration

Make plans on how transition out of TMI when Exploring



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Type of TMI's

- Altitude – Tunneling, Capping, Low Alt ARR/DEP
- Miles-in-trail (MIT)
- Minutes-in-trail (MINIT)
- Fix Balancing
- Airborne Holding
- Sequencing Programs – DSP, ESP, ASP, TMA/TBFM
- * ReRoutes – Playbooks, Adhoc
- * Ground Delay Programs (GDP)
- * Collaborative Trajectory Option Program (CTOP)
- * Airspace Flow Programs (AFP)
- * Ground Stops (GS)

** ATCSCC implemented TMI's*



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What TMI do you apply?

Duration of Constraint

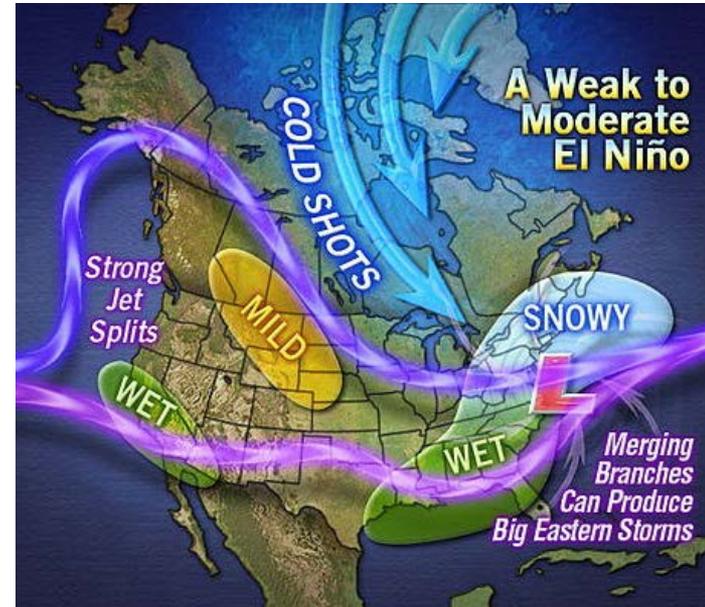
Characteristics of Constraint

- How predictable is the impacting condition
 - Thunderstorms, Snow, Wind
 - Automation
 - Construction

Ability to impact demand

- How long will it take for TMI to affect demand

What mix of TMIs meet system needs



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Miles-In-Trail

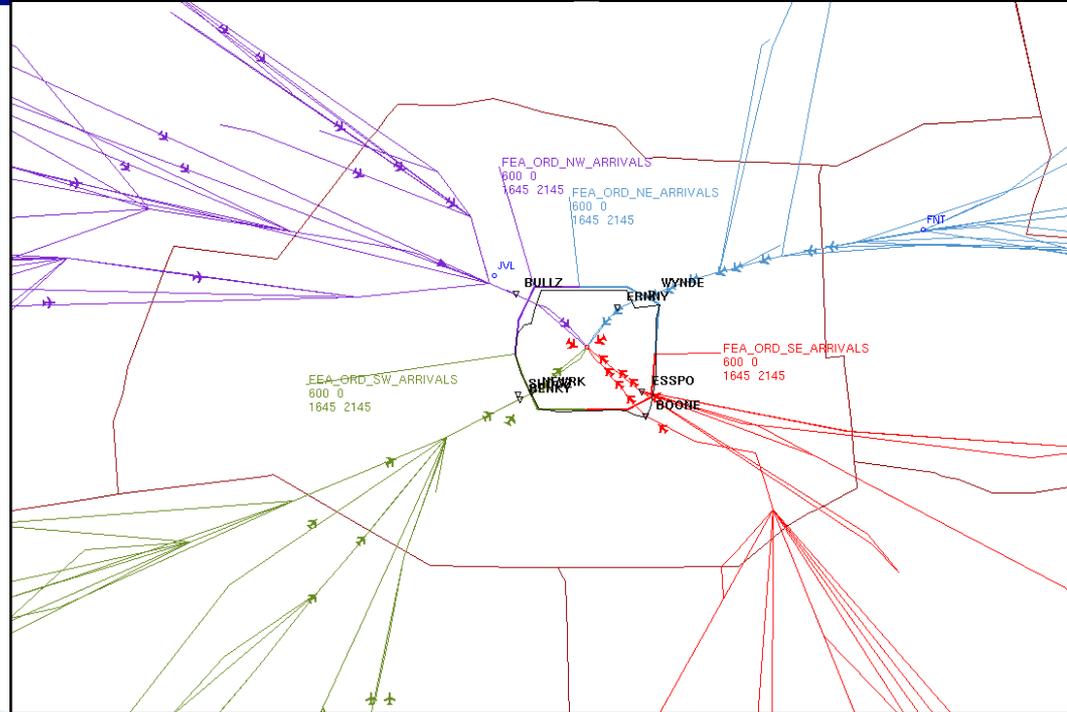
Used to manage flows

- Airport, Arrival Fix
- Sector, Airway

How are they determined

- Experience
- FEA evaluation

** MIT impact are not taken into consideration for demand predictions.*



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Types of ReRoutes

Departure/Arrival Time defined
(ETD/ETA)

Flow Constraint Area (FCA) defined

Create ReRoute

File Functions View **Full View**

Reroute Definition Reroute Analysis Flight List Shared Sites Restrictions Advisory

Import Routes From: Playbook... Route Search... My Routes... RMT File

Identify Flights based on:
 ETD ETA Public FEA/FCA Flight List

*Start Time: 07 1200 Primary Filters
*End Time: 07 2000 Entry Time: From: To: Flight Status: All Airborne Not Airborne

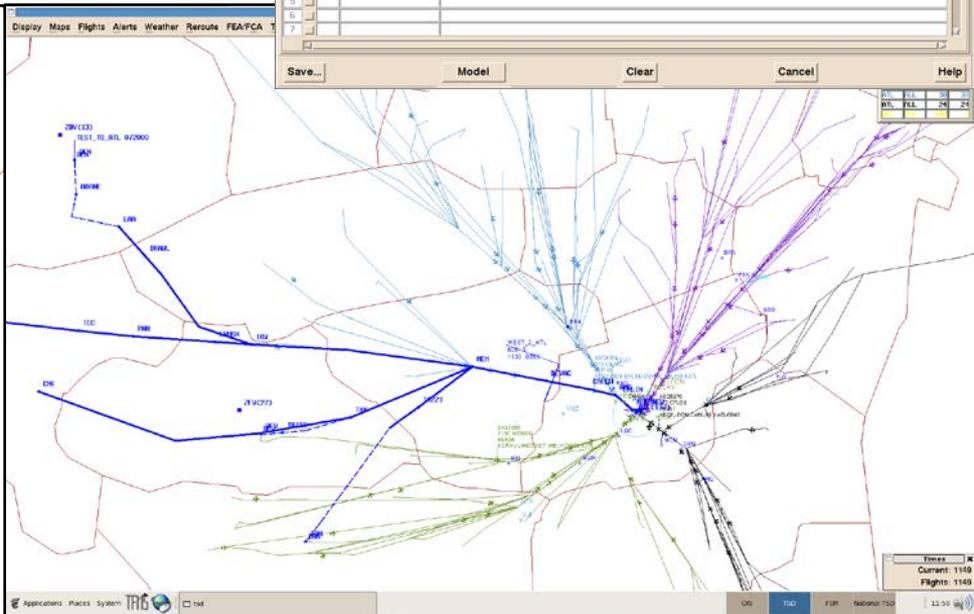
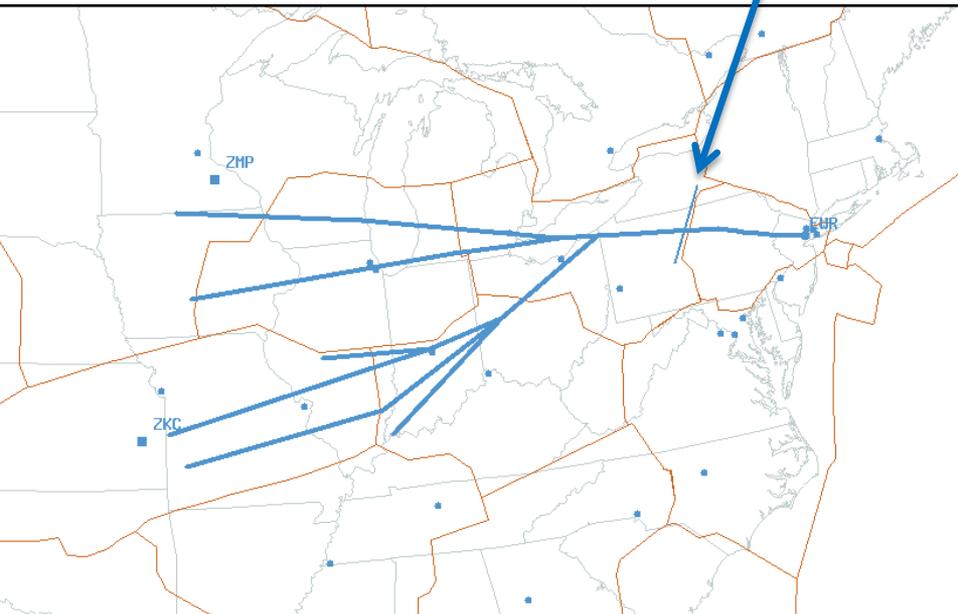
Display ReRoute
Show: Navals Fixes Erase Preview
 Protected Segments Flight Count: 137
Characteristics
*Name: TEST_10_RTL Color: Blue
Domain: Private Local Shared Public
 Monitor ReRoute

#	Origin(s)	Filter	Type	Route	Full Destination(s)
1	52 ZRH			FLD J29 MEH ERLIN9 KATL	<input checked="" type="checkbox"/> KATL
2	27 ZFU			TXK MEH ERLIN9 KATL	<input checked="" type="checkbox"/> KATL
3	24 ZIV ZOR ZLC			LAR J20 IRU FSH MEH ERLIN9 KATL	<input checked="" type="checkbox"/> KATL
4	20 ZLA			BRK J6 IRU FSH MEH ERLIN9 KATL	<input checked="" type="checkbox"/> KATL
5	14 ZRB			CHE J65 RBT J42 TXK MEH ERLIN9 KATL	<input checked="" type="checkbox"/> KATL
6					
7					

Destination Segments for Split Routes:

#	Destination	Route
1		
2		
3		
4		
5		
6		
7		

Save... Model Clear Cancel Help





Sequencing Programs

Ground Sequencing – GDP, AFP, TBFM, CTOP

EDCT, DSP, ESP, Call for Release

Airborne Sequencing – ASP, TBFM

Speed, Vector, Holding



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- Interaction of TMIs
 - GDP and MIT
 - GDP and Routes
 - GDP and AFP
 - AFP and Routes
 - CTOP



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