FFP1 Performance Metrics

NEXTOR Research Symposium

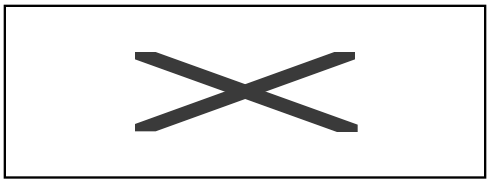
30 November 1999

FFP1 Core Capabilities Limited Deployment

FFP1 is the limited deployment of the following core air traffic management capabilities:

- User Request Evaluation Tool - URET
- Traffic Management Advisor, Single Center - TMA (SC)
- Passive Final Approach Spacing Tool - pFAST
- Collaborative Decision Making (CDM) with Airline Operations Centers
  - Ground Delay Program Enhancements
  - NAS Status Information
  - Collaborative Routing
- Surface Movement Advisor - SMA

FFP1 Evaluation By Phase of Flight



FFP1 Performance Metrics - Background

December 1998 • **Core Performance Metrics established with RTCA**
- based on expected operational impacts to airspace users and service providers

April 1999 • **Initial Draft FFP1 Performance Metrics Plan**
- coordination with government, airlines, industry, and academia

August 1999 • **FFP1 Performance Metrics Plan Version 1**

Collaboration on Metrics and Evaluation

RTCA

Free Flight Select Committee Metrics Working Group
- Airlines
- FAA
- Industry
- MITRE CAASD
- NATCA

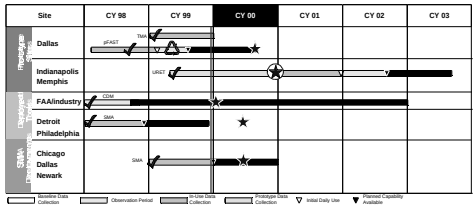
FFP1 Metrics Team
- FFP1 Program Office
- MITRE CAASD
- NEXTOR
- TRW/SETA

Performance Metrics Status

- **CDM**
  - Performance Metrics Summary Report - December 1999
- **URET**
  - Analysis of detailed usage data at ZID and ZME
  - Analysis of Center time and distance, amendments
- **CTAS (TMA and pFAST)**
  - Analysis at ZFW/DFW
  - Demonstrate metrics and evaluation methods at CTAS sites
  - Established data collection processes

Sites	Sources
– TRACONs: DFW, MSP, SCT, DEN	– ARTS and Host track data
– Centers: ZMP, ZLA, ZDV	– Log Files (TRACON, Center TMU, Command Center)
	– Weather data
	– OOOI

Evaluation Schedule and CY00 Activities



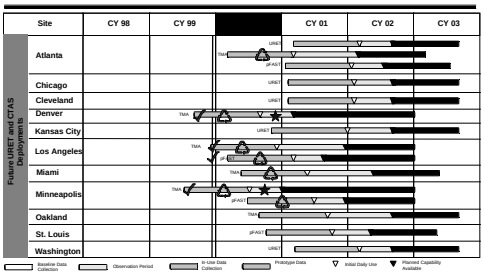
✓ Data collection process established

Preliminary data analysis / site feedback

Interim analysis report

★ Summary report

Evaluation Schedule and CY00 Activities

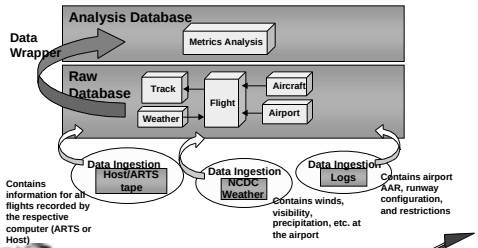


✓ Data collection process established

Preliminary data analysis / site feedback

★ Baseline analysis report

★ Summary report

Database Overview for CTAS Analysis

FFP1 Metrics Team is building a valuable database that can be used for future research and analysis on NAS performance