

*Project Identification:
FSM Version 8.90 New Features*

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Introduction

This document covers all significant changes implemented for Flight Schedule Monitor (FSM) 8.90 since FSM 8.80. The default Monitor Mode Live FSM user interface is illustrated in Figure 1.

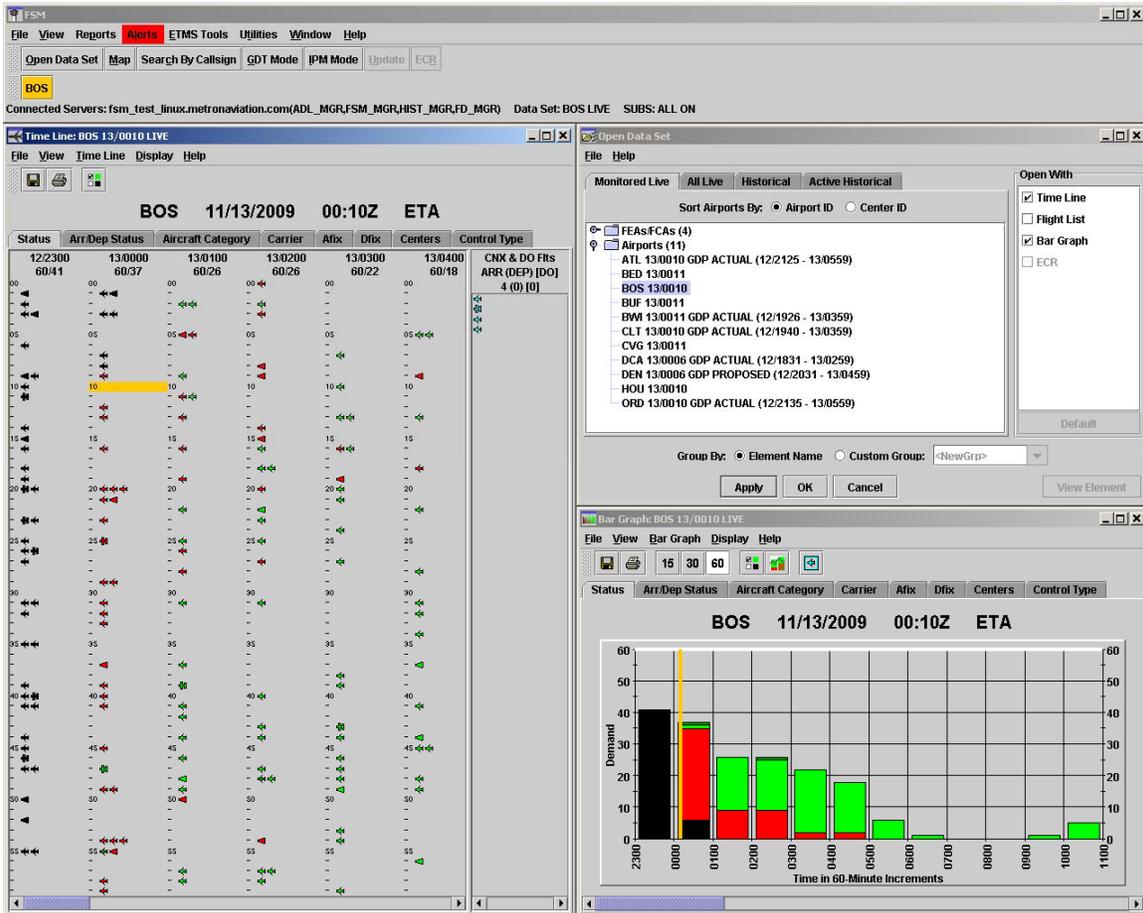


Figure 1: Flight Schedule Monitor 8.90

The FSM 8.90 User's Guide is available as a complete reference for FSM functions not included in this document. Select **Help > FSM** from the Control Panel to open FSM 8.90 online help in your browser. You also can access component-specific online help from any FSM component.



ECR Logic Enhancement

The flight placement logic utilized by the EDCT Change Request (ECR) capability has been enhanced for the Limited and Unlimited options. FSM 8.80 logic used a flow rate model that was compared against the AAR. The FSM 8.90 logic utilizes a queue-based airborne holding model to determine flight placement for the Limited and Unlimited Update options. **Note:** There has been no change to the Manual or SCS logic.

The Limited and Unlimited placement algorithm projects demand by assuming that flights will arrive at the airport or FCA no earlier than the flights' current ETAs. This projected demand is then compared against the AAR; if the projected demand exceeds the capacity, then flights are assumed to go into airborne holding until there is available capacity.

Limited Option:

The Limited Option determines the best place for a flight between the new Earliest CTA and (New Earliest CTA + Max Additional Delay). Note that when the Limited option is used, a flight may be placed in the Limited CTA range even if the demand exceeds the capacity.

Unlimited Option:

The Unlimited Option determines the best place for a flight between the new Earliest CTA and the last CTA of the program.

Since FSM 8.90 ECR now takes into account the airborne holding queue (a minute-by-minute holding count), there will likely be more delay assigned to flights by ECR for the Unlimited option when current demand is heavy. It is important to remember that the algorithm still uses the AAR and not the Program Rate; therefore, it is necessary to ensure that the AAR is set correctly.

This enhancement is fully contained within FSM, there is no change to any external interfaces.



Field Facility ECR Options

In FSM 8.80, a Field facility could access only the SCS option. In FSM 8.90, a Field facility can also access the Unlimited option.

ECR: ATL 21/1816 LIVE : Frozen

File View Help

Find Flight

Airport/FCA: ATL Source ADL: 21/1816

ACID: [] ORIG: []

Earliest EDCT: [] []

Get Flight Data Flight Detail

Current Flight Data

IGTD: 21/1904 IGTA: 21/2108

CTD: 21/1914 CTA: 21/2101

ETD: 21/1914 ETE: 107 ETA: 21/2101

ERTD: - ERTA: -

Update Options

Limited CTA Range: --/---- - [] [] Max Additional Delay: - Default Range

SCS

Unlimited CTA Range: --/---- - --/---- Max Additional Delay: -

Unlimited CTD: --/---- CTA: --/---- E_CTA+: -

Apply Model Send Request Clear All Cancel

Figure 2: Unlimited Option Available for Field Facilities

Visual Warning of Expired Data

If there is an 11-minute gap between your local machine time and the ADL update time for a Monitor Live mode Time Line or Bar Graph component, the Date and Time label will turn red. As soon as the next update is received, the date and time label will revert to black. Note that the components will remain active even though the data has expired.

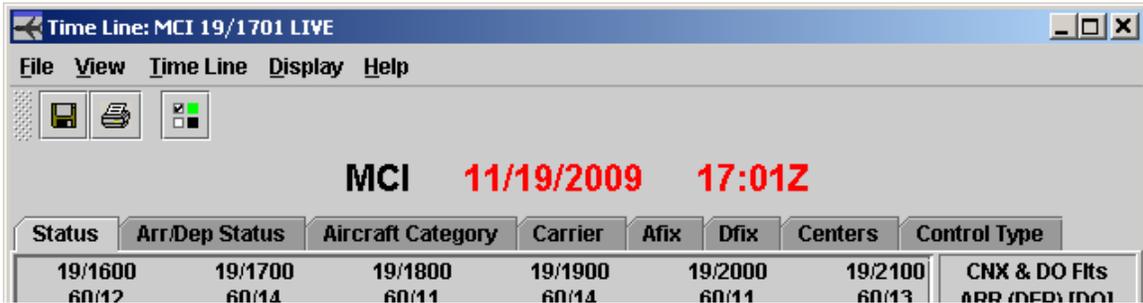


Figure 3: Red Text Warns of Gap Between Machine Time and ADL Update Time

PTR List

PTR/EC	JIRA	Description
TFMtc10706	FSM-3168	ECR Logic Enhancement
TFMtc10548	FSM-3093	Map not showing Exempt airport in distance based GDP
TFMtc10725	FSM-3176	CTL_ELEM and SlotInfo differ for some flights in GDT Flight List
TFMtc10707	FSM-3131	Provide visual warning if ADL data has expired
TFMMP00029167	FSM-3234	Modify CZY Tiers