

# IADS

*Interactive Analysis and Display System*

[www.symvionics.com/iads](http://www.symvionics.com/iads)

# Control Room Goals & Trends

## EFFIENCENCY

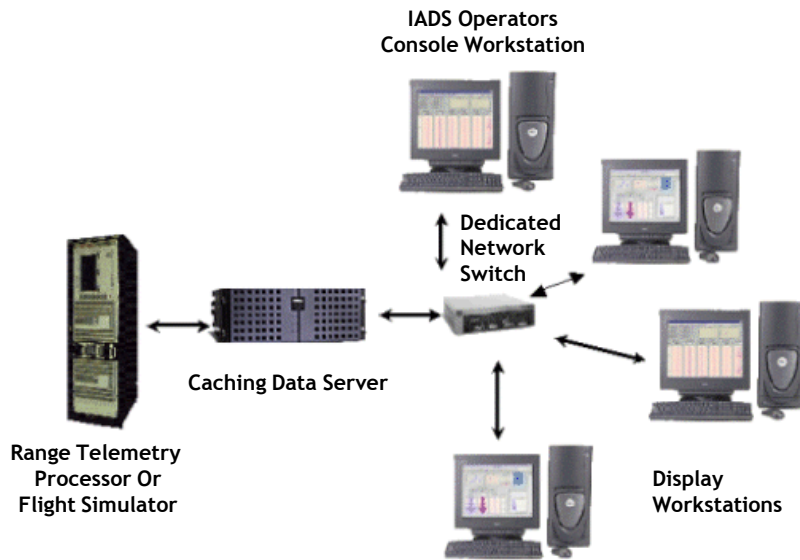
- Clear more test points in a shorter amount of time
  - Analyses typically performed in post-test now being done in real-time
- Utilize captive engineering time
  - Build displays, manage own config file, create derived parameters
- Make go/no go between test points
- Provide quick-look data required for next days test decisions

## TEST INTEGRATION

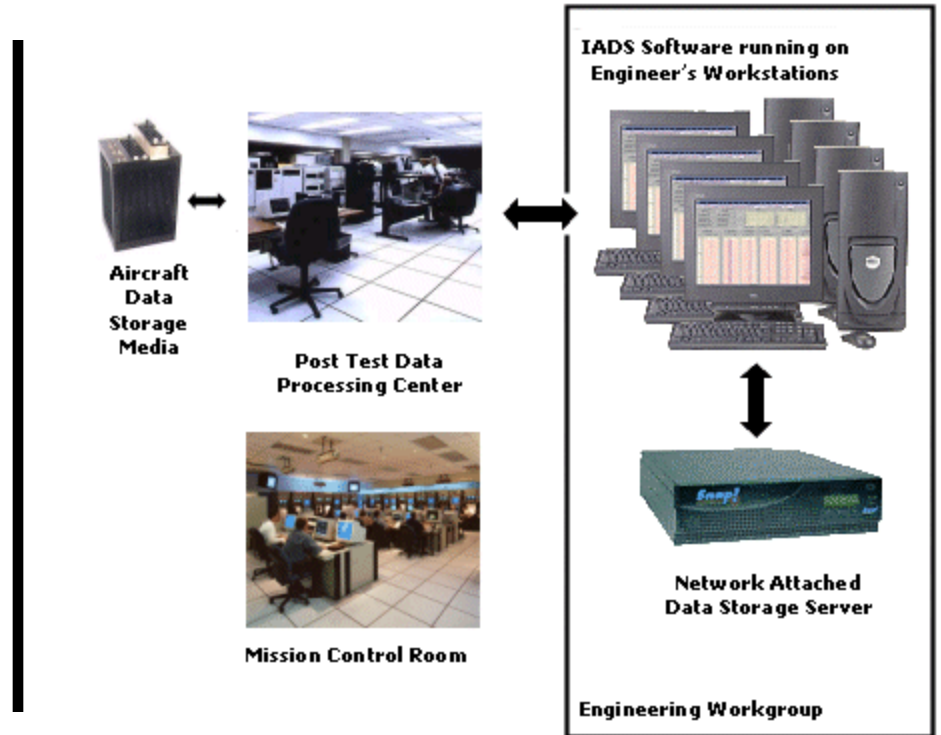
- Real-time used for safety of test only
- Typically analysis based engineers requirements not met in the control room
- Analysis users have systems that are after-thoughts; if available in real-time at all

# System Configuration

## Real-time



## Post-test



# IADS As The Solution

- Data Analysis

  - Time Domain

  - Frequency Domain Analysis

  - Data Monitoring

  - Audio/Video

  - FRC & ICFB

- User Configurable Displays

  - Drag and drop to create displays

  - Modify and save displays and their environment in a matter of seconds

  - Control all display, data management, and analysis

  - Manage multiple analysis displays

  - Customize the look, feel, and functionality of the environment

- Common Display System

  - Same data display and analysis capabilities in real-time and post-test

# IADS As The Solution

- High Speed Data Archiving

  - Every Data Point Recorded

  - Integrated Data Scrollback – Entire Test

  - Walk-away Data

- User System Interaction

  - Configuration Data Base

  - Derived Engine

  - Data Logs

- Extensibility

  - Interoperable with Excel and MATLAB

  - General Electric Data Views will run on top of IADS

  - Macromedia FLASH can be used to make display objects for IADS

  - ActiveX Controls developed in Visual Basic/Visual C drop into IADS

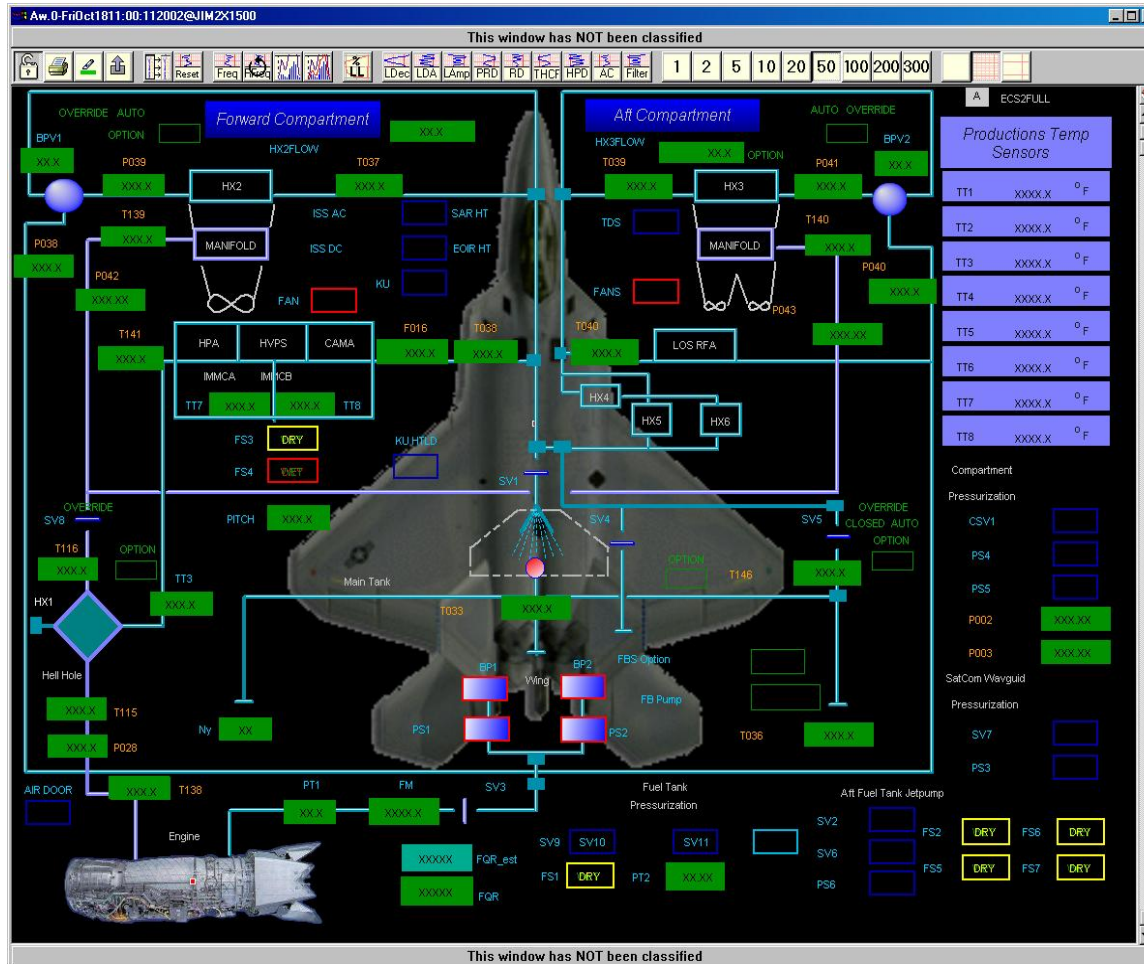
  - Microsoft Automation Interface can be used to connect to Windows Software

# Interoperability

## Data Source

- AFFTC Test and Evaluation Command and Control System (TSPI)
- L3 Comm. 550 telemetry processor (Telemetry)
- L3 Comm. O/S90 telemetry processor (Telemetry)
- Veridian Omega 3000 telemetry processor (Telemetry)
- NASA Dryden Flight Simulators (F-18 AAW and C-17)
- AFFTC TEMS Flight Simulators (F-16, X-32)
- NetAcquire

# Future Features



## IADS Dynamic Drawing Package

# Customers

## **EDWARDS AIR FORCE BASE:**

### **F-22 COMBINED TEST FORCE**

Four Control Rooms at Ridley Mission Control Center; Post-test system at the CTF Facility

### **FIGHTER COMBINED TEST FORCE**

F-16 Joint Enterprise Test System (JETS)

### **GLOBAL REACH COMBINED TEST FORCE**

C-17 and C-130 Aircraft Testing

### **NASA DRYDEN**

Western Aeronautical Test Range (WATR)  
Williams Research Aircraft Integration Facility (RAIF)

### **TEMS IFAST**

F-16 and F-22 Simulation Displays

### **BENEFIELD ANECHOIC FACILITY (BAF)**

Supports Installed Systems Testing for Avionics Test Programs

### **JOINT STRIKE FIGHTER (JSF)**

## **LOCKHEED MARTIN AERO - Ft. Worth, Texas & Marietta Georgia**

F-16 Joint Enterprise Test System (JETS)  
Core Flight Test Mission Control Center  
Block 60 Mobile Mission Control Facility  
C-5 AMP Program  
F-22 Test Program  
JSF Program

## **EGLIN AIR FORCE BASE**

Central Control Facility  
Seek Eagle Program Office

## **NAWC/AD - Patuxent River, Maryland**

E-2C Post-test Analysis

## **THE BOEING COMPANY – Seattle, WA**

Post-test Analysis

## **KOREAN AEROSPACE INDUSTRIES**

T-50 Golden Eagle Advanced Jet Trainer

## **PRATT & WHITNEY**

F-22 Engine Program

## **ISRAELI AIR FORCE**

Peace Marble V Program