

ATO-E IN SERVICE MANAGEMENT



Federal Aviation
Administration

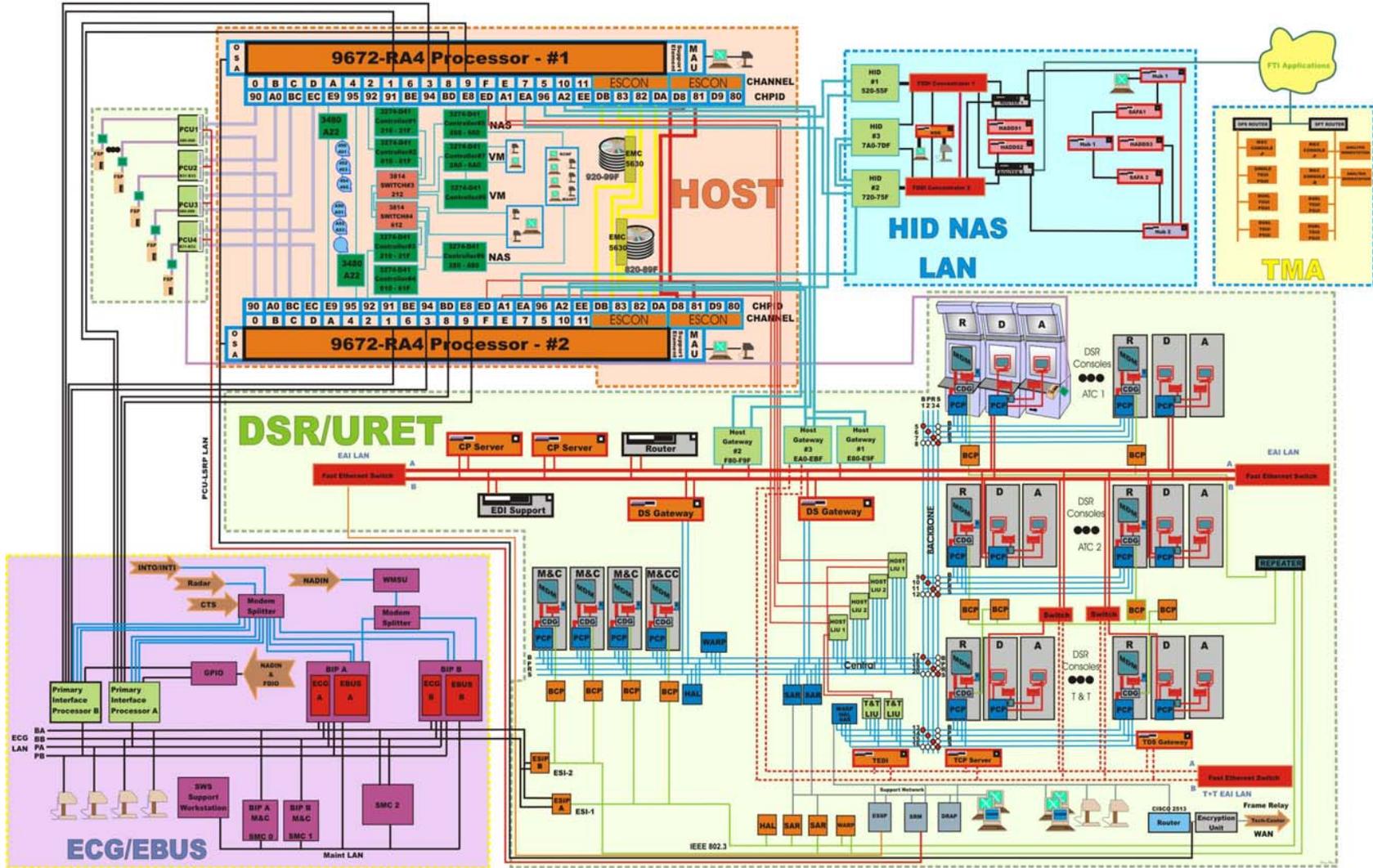
Presented to: Verification & Validation Summit #4

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ATO-E Operational Systems, Second Level Support

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FAA EN ROUTE SYSTEM



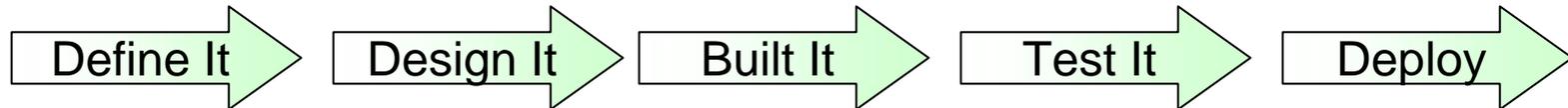
ATO-E Program Operations

May 2008



Current ATO-E Process

MAJOR RELEASE X



Emergency Release X? Define It Design It Built It Test It Deploy

MINOR RELEASE Xa Define It Design It Built It Test It

Emergency Release Xa? Define It Design It Built It

MINOR RELEASE Xb Define It Design It Built It

In-Service Management has an ongoing V&V effort

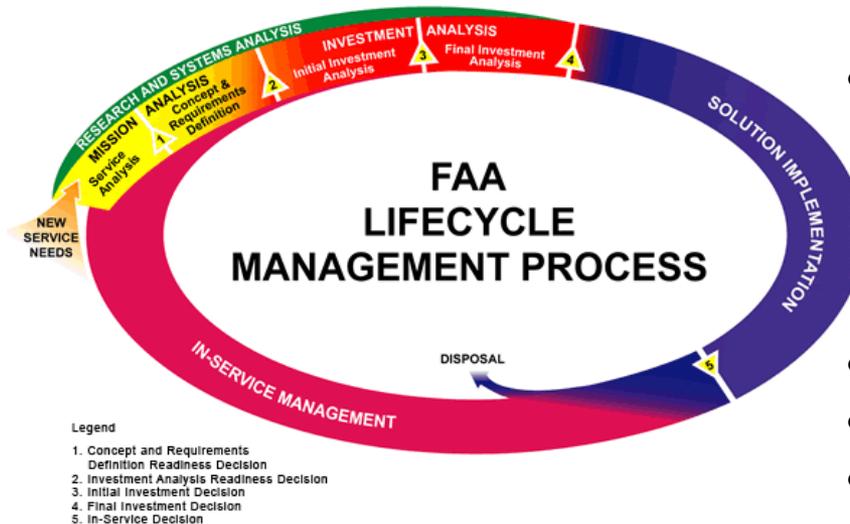
- **ISM must employ a nimble test strategy**
 - Focus on key functions and discover problems & determine ops impact
 - Test results vital component of Decision to deploy.
- **ISM Test programs must continuously evolve**
 - New system functions and interfaces
 - Changing operational procedures and adaptation



Improving Transitions to ISM

- Additional mechanisms are needed to aid/ensure coordination throughout the lifecycle
- The transition of test programs and other V&V efforts from SI to ISM need to be planned and designed to be seamless

- Define ISM V&V/Test Strategy



- Design test program for maximum ISM REUSE

- Defined handoffs
- Clear Responsibilities
- Knowledge sharing

In the future...

- Major systems such as ERAM are the platforms for new capabilities
- Many new systems/capabilities are build on or impact one or more of these platforms
 - SWIM, DATACOMM, ADS-B, etc
- The V&V of these new systems must be integrated with the ISM V&V of the existing systems

