

## **EnRoute Integration and Interoperability Facility Fiscal Year 2017 Projects**

### **En Route Training Voice Communication Tool (ETVCT) - Ongoing**

Purpose: The En Route Training Voice Communication Tool is a voice communications tool that EIIIF staff developed to support training operations in the En Route Automation Modernization (ERAM) Test and Training Laboratory (TTL) at the FAA Air Route Traffic Control Centers (ARTCCs). The IIF organization provides second level support to the ARTCCs for this system. In 2017, EIIIF personnel successfully completed development and testing of ETVCT Tech Refresh 2, and supported installation and site testing at all 20 ARTCCs.

Sponsor Name and Organization: AJM-25

Technical Partners: n/a

EIIIF Project Lead: Steve Souder

EIIIF resources used: ETVCT development lab, EIIIF ERAM Lab

Project Dates:

- Support – ongoing
- TR2 Key-site installation and testing – October 2016
- TR2 Final site completed – September 2017

### **ERAM Site Adaptation Training Support – September 2017**

Purpose: The EIIIF Training facilities were used to conduct training for the ARTCC support teams that are responsible for ERAM Adaptation Maintenance. The EIIIF team provided lab support and training room set up for this task.

Sponsor Name and Organization: Mark Stewart, AJM-2571

Technical Partners: n/a

EIIIF Project Lead: Steve Souder

EIIIF resources used: EIIIF ERAM Training Room

Project Dates:

- September 5 – 29, 2017

### **ERAM Operational Evaluations - Ongoing**

Purpose: ERAM releases must be validated for operational suitability prior to installation at the 20 Air Route Traffic Control Centers (ARTCCs). Additionally, ATO-E personnel perform regression testing and verification of operational problems. The EIIIF ERAM Lab is used for the Operational Evaluation of each ERAM release. The ERAM Operational Evaluation Team is a part

of the En Route Operational Systems and Second Level Engineering Group. The team's activities are typically conducted with participants from field sites.

Sponsor Name and Organization: Gina Oliver/Rich Dolka, AJM-25

Technical Partners: n/a

EIIF Project Lead: Steve Bakanas

EIIF resources used: EIIF ERAM Lab

Project Dates:

- Support – ongoing

### **ERAM Data Communications (DataComm) Simulation Development Training Support - ongoing**

Purpose: EIIF provides laboratory and training room support for DataComm Simulation Development Training being conducted throughout 2017-2018. Training personnel from all 20 ARTCCs will attend this training to learn how to incorporate DataComm functions into their training scenarios.

Sponsor Name and Organization: Daniel Kokotkiewicz, AJM-212

Technical Partners: n/a

EIIF Project Lead: Steve Bakanas

EIIF resources used: EIIF ERAM Lab and Training Room

Project Dates:

- Support – ongoing

### **ERAM Data Communications (DataComm) Technical Operations Training Support - ongoing**

Purpose: EIIF provides laboratory and training room support for DataComm Tech Ops Training being conducted throughout 2017-2018. Tech Ops personnel from all 20 ARTCCs will attend this training to learn how to maintain DataComm equipment at their sites.

Sponsor Name and Organization: Daniel Kokotkiewicz, AJM-212

Technical Partners: n/a

EIIF Project Lead: Steve Bakanas

EIIF resources used: EIIF ERAM Lab and Training Room

Project Dates:

- Support – ongoing

### **ERAM Radar Position Display Evaluation – March – September 2017**

Purpose: This study evaluated several different brands and models of Commercially Available Flat Panel Monitors to replace the existing ERAM Barco monitors. EIIF provided laboratory support as well as installation and removal of evaluation displays.

Sponsor Name and Organization: Flora Emami, AJM-2132

Technical Partners: n/a

EIIF Project Lead: Steve Bakanas

EIIF resources used: EIIF ERAM Lab

Project Dates:

- March – September 2017

### **Fusion Capability Management Study – September 2016 – April 2017**

Purpose: This study for the Surveillance Broadcast Service program office examined the target tracking capabilities of ERAM with Radar and Automatic Dependent Surveillance- Broadcast (ADS-B) data input. The IIF team provided support for test bed configuration, simulation scenario development, lab operations, and data reduction.

Sponsor Name and Organization: Andy Leone, Surveillance Broadcast Services Test, ANG-E55

Technical Partners: n/a

EIIF Project Lead: Steve Bakanas

EIIF resources used: EIIF ERAM Lab

Project Dates:

- September 2016 – April 2017

### **Cyber Security Group Software Version Management Studies – January – April 2017**

Purpose: This study was conducted by the Cyber Security Group (ANG-B31) to investigate software versioning tools for FAA operational systems. The EIIF supported a task to examine the ERAM system from a software management perspective using a software management tool from Tanium, Inc. The tool's ability to status/manage the ERAM software was assessed, as well as any impacts to ERAM system performance as a result of executing the tool within the operational environment.

Sponsor Name and Organization: Ruben Bigio, Information Security Branch, ANG-B31

Technical Partners: n/a

EIIF Project Lead: Steve Bakanas

EIIF resources used: EIIF ERAM Lab

Project Dates:

- January - April 2017

### **Track Based Display Management Study – September – December 2017**

Purpose: This study for the Surveillance Broadcast Service program office examined the target tracking capabilities of ERAM with Track Based mode enabled. The IIF team provided support for test bed configuration, simulation scenario development, lab operations, and data reduction.

Sponsor Name and Organization: Andy Leone, Surveillance Broadcast Services Test, ANG-E55

Technical Partners: n/a

EIIF Project Lead: Steve Bakanas

EIIF resources used: EIIF ERAM Lab

Project Dates:

- September - December 2017

### **Laboratory Monitor and Control System (LabMACS) - Ongoing**

Purpose: LabMACS is an EIIF in-house development project that streamlines ERAM Test Bed Operations. This includes lab start up and shutdown, as well as real time monitoring of lab assets.

Sponsor Name and Organization: n/a

Technical Partners: n/a

EIIF Project Lead: Steve Bakanas

EIIF resources used: EIIF ERAM Lab

Project Dates:

- Development and Support - ongoing