

EnRoute Integration and Interoperability Facility Fiscal Year 2019 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 Dynamic Simulation (DYSIM) facility and subsequently 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.

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
- SSM-ETVCT-015 site installation and testing – August 2019

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: Jason Allburger/Rich Dolka, AJM-25

Technical Partners: n/a

EIIIF Project Lead: Steve Bakanas

EIIIF resources used: EIIIF ERAM Lab

Project Dates:

- Support – ongoing

ERAM Technology Refresh 2 Support – throughout FY2019

Purpose: EIIIF provides laboratory support for testing of the ERAM Technology Refresh program. ATO-E personnel perform regression testing and verification of ERAM releases on the new Radar Position Display and Processor.

Sponsor Name and Organization: Jason Allburger/Rich Dolka, AJM-25

Technical Partners: n/a

EIIF Project Lead: Steve Bakanas

EIIF resources used: EIIF ERAM Lab and Training Room

Project Dates:

- Testing – ongoing

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

Purpose: EIIF provides laboratory and training room support for DataComm Tech Ops Training to be conducted through 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

Space Based ADS-B Study – September 2018 – May 2019

Purpose: EIIF worked with personnel from AJM-25, ANG-E55, MIT Lincoln Labs and Volpe Transportation Center on the Separation Standards Working Group Plan for Evaluation of ERAM with Space Based ADS-B. The first phase of this plan studied how Space Based ADS-B data can be incorporated into ERAM Sensor Based Display Mode at Miami Center. IIF Staff obtained ADSB and Radar data recordings and created Target of Opportunity (TOO) simulations, ran the simulations and provided data to MIT and Volpe personnel for analysis. IIF staff also created extensive ERAM adaptation modifications, and artificial simulations to meet MIT requirements, performed all the simulation runs, reduced the SAR data and submitted the reports to MIT and Volpe.

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 2018 - May 2019

FAA Enterprise Network Study – September 2018 – September 2019

Purpose: This study looked at new technologies to replace the FAA Telecommunications Infrastructure (FTI) and ways to test the effectiveness of those technologies. The first phase was testing of ERAM to ERAM communications using different network methods. IIF staff developed an ERAM simulation and tools to analyze data traffic between two adjacent ERAM sites. Ran multiple dry runs using the baseline FTI network and network configuration provided by the NPN Lab. Then developed an ERAM to STARS configuration and ran dry runs.

Sponsor Name and Organization: Teresa Fuller, FTI II Team, AJM-317

Technical Partners: n/a

EIIF Project Lead: Steve Bakanas

EIIF resources used: EIIF ERAM Lab

Project Dates:

- September 2018 - September 2019

Laboratory Monitor and Control System (LabMACS) - Ongoing

Purpose: LabMACS is an EIIF in-house development project that will streamline ERAM Test Bed Operations. This includes 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