

FAA William J. Hughes Technical Center

En Route Integration and Interoperability Facility EI²F

Located at the FAA William J. Hughes Technical Center, the EI²F represents an Air Route Traffic Control Center (ARTCC) equipped with both the Host and Oceanic Computer System Replacement (HOCSR) and the Display System Replacement (DSR).

The EI²F activities are directed and funded by the En Route Domain Integration Team (EDIT) and the facility is devoted to exploring the issues associated with modernizing the existing National Airspace System (NAS) En Route Infrastructure. The EI²F supports efforts to maximize the efficiency of the prototype development process. The centralized facility enables the FAA to implement common practices that help alleviate the burden and expense of conducting prototype-related activities at an ARTCC. The facility provides an en route system environment that can be used to perform experimentation, prototype evaluation, system-level integration, and verification without risk of impacting live air traffic control operations or without requiring site personnel to operate and/or maintain additional subsystems.

OBJECTIVES

The objectives of the EI²F include:

1. Provide a platform for evaluation of en route infrastructure improvements and support of new capabilities.

2. Provide a common infrastructure for application integration and interoperability tasks.
3. Facilitate reductions in both development and life cycle support costs of air traffic control en route functions.
4. Provide an available domain infrastructure for development and evaluations of air traffic control prototypes.

INTERCONNECTIVITY

The EI²F is interconnected to all laboratory facilities located within the Technical Center at the physical network level. Working with the National Simulation Capability Program, the EI²F will incorporate the Defense Modeling and Simulation Office High Level Architecture (HLA) to facilitate the integration, interoperability, and reuse of ATC simulators.

CURRENT STATUS

The EI²F is up and operating in support of the en route modernization efforts that are currently underway.

For more information on the En Route Integration and Interoperability Facility (EI²F), contact:

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