

# Navigating the FAA's Aircraft Certification Service (AIR)

A Visual Guide to the 2023 Reorganization & Core Functions

## The Mission of AIR: Ensuring Airworthiness

The FAA's Aircraft Certification Service (AIR) is the authority for all U.S. civil aviation products. Its core mission is to administer safety standards for aircraft, engines, and propellers, ensuring each product is airworthy — meaning it **conforms to its type design** and is in a **condition for safe operation** throughout its entire lifecycle.



## The 2023 Reorganization

### THE OLD MODEL Geographic ACOs



Engagement based on Applicant's physical location.

**Challenge:** Could lead to regional inconsistencies in applying national standards.



### THE NEW STRUCTURE Functional Certification Branches



- ✓ National Standardization
- ✓ Improved Efficiency
- ✓ Aligned Technical Expertise

## The Four Functional Certification Branches



### Transport Airplane

Oversees certification for large commercial aircraft, ensuring compliance with rigorous safety standards for passenger and cargo operations.



### Rotorcraft & General Aviation

Manages projects for helicopters, small airplanes, gliders, and balloons, addressing the unique certification needs of this diverse sector.



### Engines & Propellers

Focuses on the design, production, and airworthiness of all aircraft propulsion systems, from piston engines to large turbofans.



### Systems & Flight Test

Provides specialized expertise on complex aircraft systems (avionics, electrical) and manages flight testing to validate safety and performance.

## Core Functions of a Certification Branch



### Type Certification (TC)

For New Aircraft Designs

The branch leads the comprehensive review of a new aircraft's design, engineering, and test data to issue a Type Certificate, validating its compliance with all federal regulations.



### Supplemental Type Certificate (STC)

For Third-Party Modifications

Manages the approval process for modifications to an existing aircraft design, such as avionics upgrades or passenger-to-freighter conversions.



### Airworthiness Directives (ADs)

For Continued Operational Safety

Investigates in-service issues and issues legally enforceable ADs to correct unsafe conditions, mandating inspections or modifications across an entire fleet.

## Key Industry Stakeholders



### Original Equipment Manufacturers (OEMs)

Companies seeking certification for new aircraft designs (TCs).



### Modification Specialists & MROs

Organizations applying for design changes via STCs.



### Aircraft Operators

Airlines and other operators providing in-service fleet data for safety analysis.

## Office Functions at a Glance

### Certification Branch (formerly ACO)

Focus: Design & Production Approval

### Flight Standards (FSDO)

Focus: Air Carriers & Maintenance Operations

### Manufacturing Inspection (MIDO)

Focus: Auditing Production Facilities

# Faa Product Certification Guide

**Guillaume Favre**



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