



## Full featured, connected, customizable Flight Management System for Fixed Wing, Rotorcraft, and VTOL

### Futureproof Climb, Cruise, Approach

GE's TrueCourse™ is a modern Flight Management System (FMS) that delivers all the operational benefits sought by today's operators and is ready to adopt future capabilities that are sure to come.

With our pedigree of over 35 years and over 14,000 FMS deliveries, GE has experience on a multitude of aircraft and has designed this latest FMS to work across aircraft platforms and types, reducing the development costs and schedule for both new entrants and updates to existing platforms.

Faster customization is enabled by a simplified, innovative software architecture. The software can come hosted on a smart Touchscreen Control Display Unit that also acts as the Flight Management Computer or can be easily ported to another host computer for adaptability to existing avionics architectures.

Connectivity allows the operators to link their Electronic Flight Bag applications to the FMS for data exchange, reducing crew workload and enabling low-cost cockpit enhancements.



#### Plan

- Assemble, modify, select active and secondary flight plans
- Utilize on-board pilot interface, upload pre-planned nav data, upload via datalink, or connect to EFB flight planning software

#### Navigate

- Multi-sensor navigation using available sensors
- Auto-selects best solution from available sensors

#### Communicate

- Automated communications management with AOC & ATC
- All current comm channels are supported

## Flight Planning

- Guides pilot in creation of Flight Plans
- Integration of Civil Airspace Rules & Restrictions
- Provides worldwide Navigation Database (Type 2 LOA)
  - Waypoints, Airways, Airports and Runways
  - Standard Instrumented Departures (SIDS)
  - Standard Arrivals (STARs)
  - Precision Approaches
  - In-flight modifications to flight plans

## Vertical Performance Optimization

- Optimized Vertical and Thrust Profiles
- Optimized Fuel Flight Profiles
- Optimized Time Flight Profiles
- Required Time of Arrival at a Waypoint
- Available Loiter Time
- Flight Envelope Protection
- Integrated with Lateral Profiles

## Connectivity

- Bi-directional, secure interface with EFB application and/or ground applications
- Software development kit provides data access to applications
- FM data selected through configuration file

## Ready for the Future

- Dynamic RNP
- Advanced Interval Management
- Trajectory Negotiation with Air Traffic Control

## Guidance

- Lateral/vertical coupling to flight director or autopilot/ auto-throttle

## Navigation

- Optimal position and velocity estimation (Kalman Filter)
  - GPS, INS, DME, VOR, ILS
- Sensor monitoring
- Automated Navigation Radio Tuning

## Communications Management

- VHF Datalink (VDL) Mode A/2
- HF Datalink (HFDL)
- Satellite
  - Iridium
  - Inmarsat
- Fleet Operations Communications
  - ACARS
- ATC Communications
  - FANS 1/A
  - ATN B1/Link 2000+
  - ATN B2

## Advanced Airspace Features

- RNAV/RNP AR 0.1
- Required Time of Arrival (5 seconds)
- Continuous Descent Approach
- Performance Based Navigation
- LP/LPV Approach Integration
- Fleet Operations Flight Plan Datalink

