

ARR-7000 AVOIDANCE RE-ROUTER

HAZARD AVOIDANCE AND ROUTE OPTIMIZATION

Reducing pilot workload while increasing safety

Collins Aerospace's ARR-7000 Avoidance Re-router is an advanced, cognitive decision-aiding application that enables pilots to quickly react to stationary or moving threats encountered along the flight path.

The ARR-7000 will alert the pilot when it detects a conflict and generate a new flight plan in real time to avoid the threat while minimizing the impact to the original mission.

Re-routes can be optimized for time, fuel, safety, ATC acceptability or other factors. Pilots will be able to review the re-route before it is executed.

Enhances civil and military missions

The ARR-7000 is fully customizable for any type of threat data, including terrain, weather, restricted airspace, hostile forces and more. The application enhances a diverse set of missions, from deviating around weather in civil airspace to low-level tactical maneuvering in hills and valleys using terrain masking. A configuration kit is available to help tailor the application to your aircraft's requirements.

Low risk acquisition and platform integration

The ARR-7000 is capable of running as an embedded, real-time software application either within Collins hardware or hosted on other manufacturers hardware. It is configurable to operate in either iPad, Linux PC, or Windows PC environments.

The ARR-7000 is a FACE™ Conformant software product that provides an open-architecture, third-party interface. This interface allows customers and systems integrators to use aircraft-unique sensors and networks for data inputs.

Your pilots can rely on this proven hazard avoidance and route optimization capability. It's ready to integrate now onto your fixed- and rotary-wing, manned and unmanned aircraft fleet.



CUSTOMER BENEFITS

- Increases safety through the use of continuous monitoring and alerting of the aircraft trajectory and route for potential risk conditions
- Reduces workload through automated generation of conflict-free routes that the pilot can choose from
- Easily adapts to multiple data sources through agnostic design
- Low risk – Ready to integrate now, with DO-178C support artifacts
- No license required for commercial export

MISSION FEATURES

- Conflict detection and alerting
- 4D (3D + time) re-routing
- Terrain avoidance and terrain masking
- Fuel, time, safety and ATC acceptability optimizations
- Accounts for aircraft performance limits
- iPad and flight deck versions available

SERVICES/SUPPORT

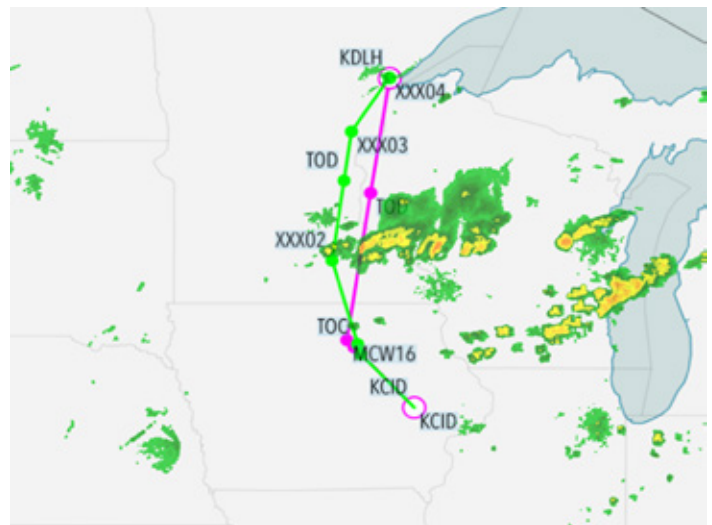
- Software configuration kit for third-party integration
- Airworthiness certification support and documentation
- Third-party avionics system integration support

ARCHITECTURE

- FACE v2.1 conformance certified
- Architected to align with OMS open architecture standard



ARR-7000 re-routing around point-radius threats and terrain



Re-routing around moving convective weather threats

FACE™ is a trademark of The Open Group in the United States and other countries.

Specifications subject to change without notice.



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