MOSARC AVOIDANCE RE-ROUTER

OPEN SYSTEMS ARCHITECTURE, FUTURE-READY AVIONICS

Hazard avoidance and route optimization

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

The Mosarc Avoidance Re-router 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 Mosarc Avoidance Re-router 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 Mosarc Avoidance Re-router is a FACE™ Conformant software application 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.

collinsaerospace.com/Mosarc

Collins Aerospace

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 for the pilot to choose from

- Easily adapts to multiple data sources through agnostic design

- Low risk – Ready to integrate now, with DO-178C support artifacts

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
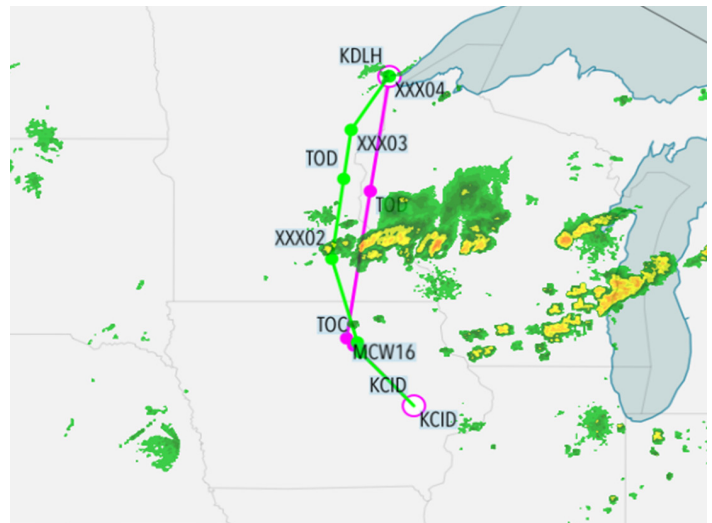
SERVICES / SUPPORT

- 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

Specifications subject to change without notice.

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