Predicted hazard avoidance and route optimization to reduce pilot workload.

Rockwell Collins’ Avoidance Re-router (ARR-7000) 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
An embedded, real-time software application in the unit fully interfaces with avionics from Rockwell Collins and other manufacturers. In addition, the ARR-7000 is configurable to operate on an iPad® or Windows® PC. This enables the ARR-7000 to be used during mission planning, as well as on board the aircraft.

The ARR-7000 is a FACE™ Certified 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.

rockwellcollins.com
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

Specifications subject to change without notice.

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

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Building trust every day.