



International Aircraft Mission Planning System (IAMPS)



Our customers are engaged in responding to the increasing demand and necessity to modernize the pilot-to-vehicle avionics interface of proven legacy aircraft. New technologies and evolving innovations are inherently dynamic and require adaptable mission planning software solutions to leverage strategic capabilities.

IAMPS EXTENDS YOUR AVIONICS CAPABILITIES

Leidos provides a proven and cost-effective International Aircraft Mission Planning System (IAMPS) to global customers supporting a large variety of aircraft avionics systems. Our software features a full line of sophisticated mission enhancement tools that complement the modern cockpit environment. Leidos' experienced team of professionals delivers mission planning systems with verified accuracy that follows the established standard operating procedures of military flight planning. The IAMPS intuitive user interface enables the efficient input of mission-critical data to produce accurate and reliable results that support safe flight execution.

OUR CAPABILITIES

IAMPS MISSION PLAN APPLICATION

- ▶ Plot waypoints with optimized visual tools layered over current digital maps with an elevation profile view to avoid potential flight hazards and support flight risk mitigation
- ▶ Provide drawing tools to represent the battle space on planning overlays that increase tactical situational awareness
- ▶ Pre-compute shortest distances with necessary fuel requirements from route waypoints to potential recovery airfields to support extended time on station or fuel endurance situations
- ▶ Calculate planned aircraft configuration against weight and balance limits with comprehensive performance results verified against authorized Aircraft Flight Manuals and Pilot's Operating Handbooks
- ▶ Import navigation and communication details derived from databases certified for both Visual and Instrument Flight Rules
- ▶ Perform flight safety validation to assist aircrew in an error-free flight plan by identifying and correcting exceedance of aircraft specification limits
- ▶ Generate mission briefing materials and pilot information kits for use in the cockpit that includes kneeboard packets and map strip charts
- ▶ Transfer mission data to a variety of data storage devices to initialize aircraft flight management systems and support mission rehearsal via the IAMPS Mission Review Application

IAMPS MISSION REVIEW APPLICATION

- ▶ Provide quick and accurate pre-flight rehearsal with post-flight review and analysis
- ▶ Support mission rehearsal in 2D/3D views with a realistic preview of the flight showing the position over the map and portraying the aircraft in a 3D synthetic environment from the pilot's perspective
- ▶ Review planned missions imported from the IAMPS Mission Plan Application to coordinate mission procedures and actions on the objective
- ▶ After-action review with in-depth, definitive detail from the recorded avionics data stream to provide critical feedback within the optimal recall interval
- ▶ Compare recorded aircraft position, cockpit video, and audio from the flight with planning data imported from the IAMPS Mission Plan Application to interactively analyze execution vs. flight plan
- ▶ Reconstruct flights of multiple aircraft simultaneously using synchronized displays that precisely track relative positions through aerial maneuvers

WHY PARTNER WITH LEIDOS?

Leidos' IAMPS Program uses an agile development process, designed to support multiple mission sets, and provides flexibility for enhancements through its open architecture. Our subject matter experts are experienced mission planning software engineers, and we provide software support from veteran pilot users. In addition, Leidos' IAMPS Program maintains a Quality Management System that is registered as compliant with ISO 9001:2015.

NEXT STEP

To learn more about IAMPS or schedule a mission planning and review demonstration, contact us today.

PROVEN AIRCRAFT INTERFACES

- ▶ A-4
- ▶ AH-64 / WAH-64
- ▶ AV-8
- ▶ T-45 / BAE Hawk
- ▶ C-5
- ▶ C-130 / L-100
- ▶ C-141
- ▶ EH-101 / AW-101
- ▶ EMB-500
- ▶ F-16
- ▶ F/A-18
- ▶ F-111
- ▶ G-120
- ▶ H-47 / V-107
- ▶ H-53 / S-65
- ▶ H-60 / S-70
- ▶ H-135 / EC-135
- ▶ H-145 / EC-145
- ▶ OH-6 / MD 500
- ▶ T-6 / M3000
- ▶ VC-25 / 747-200



FOR MORE INFORMATION

leidos.com/command-control | IAMPSSupport@leidos.com

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