Paperless, Electronic Fuel Ticketing
## for Aviation Fuels Management from Tank Farm to Takeoff

Handheld Computing for Into-plane Operations

When using paper tickets to manually record aircraft fueling, the fuel agent is required to arrive at the correct aircraft during an assigned time window, manually record aircraft and fueling vehicle meter values, perform calculations, accurately fuel the aircraft, validate their own manual calculations, complete a paper fuel ticket and deliver a copy to the cockpit - a time consuming and complex process.

A Critical Component for Aircraft Fueling

The Varec 9640 Intoplane Handheld Computer (IHC) replaces back office data entry as a means of assigning and recording aircraft fueling transactions. It is an integral part of an automated aviation fuels management system that performs the following critical tasks:

- Automatically provides fuel agents with time, gate, aircraft and fuel load information for efficient dispatching

- Automatically captures accurate fuel load data and automatically performs net volume calculations and validates calculations to help reduce data entry errors

- Automatically updates FuelsManager® Aviation with real-time status and completed transaction data that enables ACARS messaging, fuel reconciliation and enterprise reporting
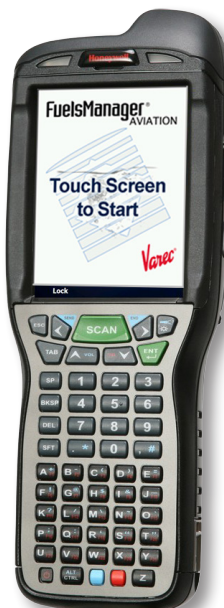
Mobile Computing and Wireless Communications

By utilizing integrated, mobile computing technology, fuel agents are guided through a streamlined, consistent and simplified fueling process. The 9640 IHC receives flight information and fuel load data from FuelsManager Aviation via Wifi or cellular communications. It also automatically collects metered fuel volume data from vehicle mounted 8232 Data Capture Units (DCU) via Bluetooth® wireless technology.

Reducing Errors Associated with Paper Tickets

Using the IHC, fuel agents simply log in and select an assigned flight to receive all flight and fuel load details from dispatch. Limited manual data entry is required during the fueling process; the majority of fueling information is automatically populated or calculated for them. This dramatically reduces the manual data collection or calculation errors associated with paper tickets.

Reducing Flight Delays

Two-way, status updates between dispatch and fuel agents allow complete transparency of all fuel operations. Dispatch operators are able to manage fueling resources more effectively, while fuel agents are able to react quickly to flight, gate or fuel load changes, which, in turn, ultimately assists in reducing flight delays. At every step of the fueling process the electronic ticket is time stamped. This provides a full audit trail and a clear picture of when fueling has actually completed.

Measurement | Control | Automation | Enterprise | Integration | Support

www.aviation.varec.com

FuelsManager® AVIATION

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► Varec aviation fuel management and electronic ticketing systems have removed an estimated 2.7 million fuel slips annually from circulation for one major airline.

Quick Specs

- Color TFT reflective display with touch screen - Clear viewing both indoors and out
- FM Approved to Class 1, Division 2 - Suitable for use in hazardous locations
- Ultra-rugged magnesium housing with bumper padding - Survives 6- foot drops to concrete
- IP67 - Certified to protect against water and dust
- Epoxy-coated, full alpha-numeric keypad - Data entry is a breeze
- Powerful Intel processor and CE .NET 5.0 operating system - Ensures reliable mobile computing solution

Improved Invoicing with Fuel Reconciliation on a Daily Basis

All fueling transaction data is automatically sent to FuelsManager Aviation when the transaction completes - it is then available to all users before the aircraft takes off! On a daily, weekly or monthly basis, your back office personnel no longer have to wait for the delivery of paper tickets, manually enter whole fuel tickets, find lost tickets or identify and correct manual data errors. These processes consume valuable time and resources, but more importantly, delay the reconciliation and close out of fuel accounts.

Reducing Your Carbon Footprint

Today, the environmental impact of an airline's operations is a major concern. The Varec aviation fuel management and electronic ticketing systems installed at three major U.S. hubs helped remove from circulation an estimated 450,000 paper tickets (annually) and the system helped achieve multiple zero-delay months due to fuel operation delays.

Surviving Harsh Environments and User Abuse

The ruggedized 9640 IHC is designed to operate in harsh environments (IP67 classification) and survive user abuse, including 6-foot drops to concrete. The 9640 IHC is also approved for use in areas of operation, such as most areas under the aircraft wing. The epoxy-coated keypad and touch screen make data entry and process selections a breeze, even with bulky gloves. In the event of misuse, Varec provides comprehensive warranty programs for immediate replacement of damaged units.

Offline (Batch Mode) Operation

If real-time communications are not possible at a specific airport, the 9640 IHC is able to operate in an offline mode, whereby flight and fuel load information is downloaded at a WiFi hotspot to the unit in batches at the start of the day or shift. Throughout the day, the unit is used for fueling operations and collecting transaction data. At the end of the day or shift, all transactions are then uploaded at the WiFi hotspot and are available to the system.

Complete Range of Accessories

As a mobile computing device, the 9640 IHC has been proven in many industrial applications and additional features or accessories, such as compatible printers, docking station, holster, stylus, etc., may be suitable to support your specific application.

► Completed, validated transactions are automatically visible throughout the system before the aircraft takes off.