I2M Systems Inc.

# I2-STM

## Surface Traffic Management System

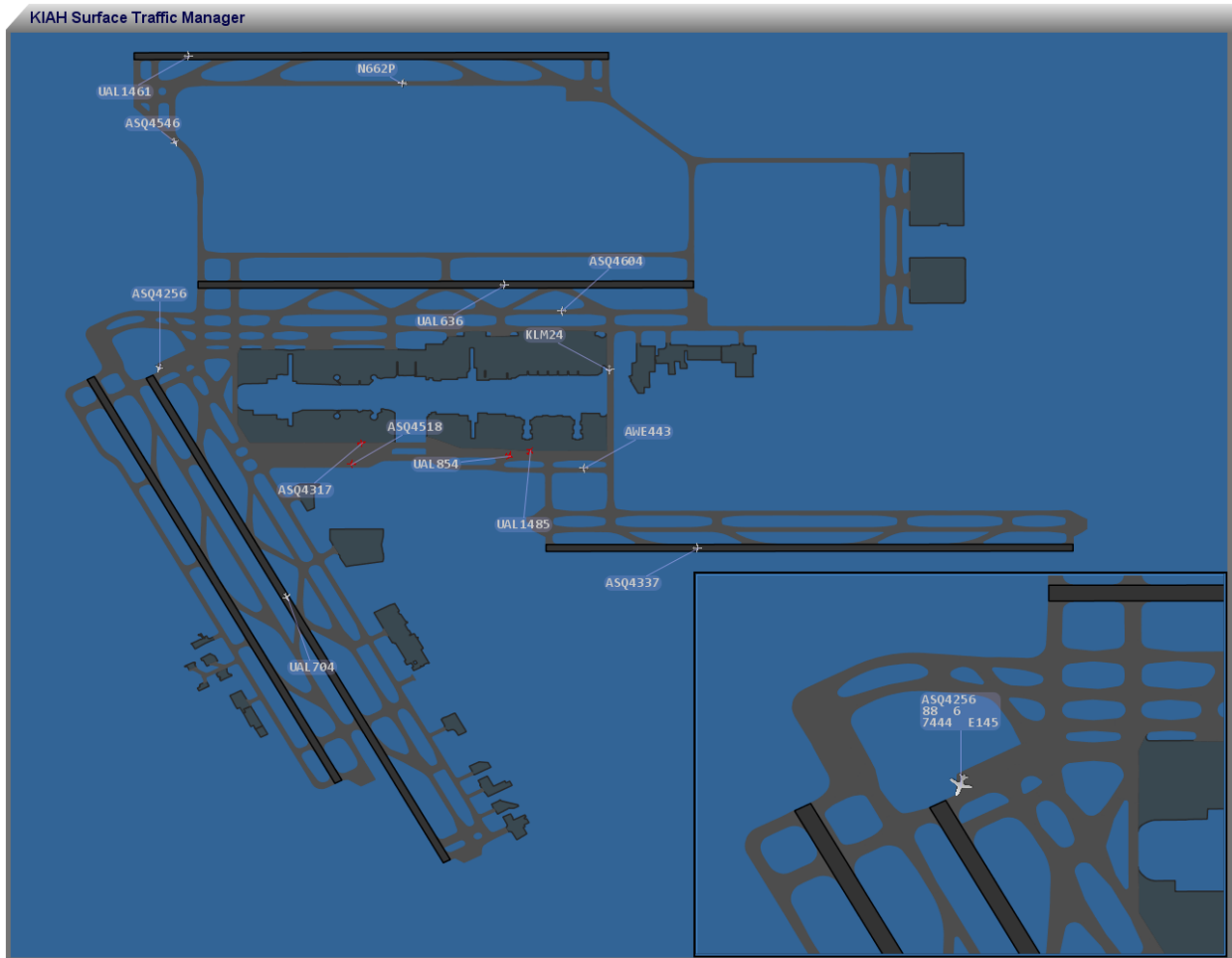KIAH Surface Traffic Manager

I2M Systems Inc. Surface Traffic Management (I2-STM) is designed to enhance the efficiency and safety of air traffic operations.  It allows maximization of the efficiency of the aerodrome environment by providing the controller detailed situational awareness data in low visibility conditions.  I2-STM also enhances safety by providing customizable automated "safety nets" which provide alerts to controllers to prevent potentially imminent incidents.

## The Most Highly Integrated Surface Surveillance Solution Available.

When developing their ATM components, I2M Systems Inc. is set out to create a truly complete solution, not just another standalone product.



**Potential Collision : UAL1485 and UAL854**

View   Ack

Our ATM System, Cassiopeia-5, provides a complete Controller Working Position (CWP) which can be adapted for innumerable site-specific ATC situations and adjusted for the current traffic scenario at the touch of a button.  STM information is presented as a module in our integrated display, allowing complete flexibility for all of your ATC needs.

## Optional Components

In addition to its core modules, I2-STM offers several supplemental components.

- The STM Tracker Component (STMT) conducts multi-sensor tracking and fusing of all plots and tracks which have been received from various surveillance sensors.  STMT is used when multiple surveillance sources such as PSR, SSR, SMR, SWIM/STDDS, ASDE-X/ASSC, A-SMGCS CAT011, ADS-B, ADS-C, and transponders need to be coalesced into a single view thereby providing a comprehensive surveillance picture of the airport surface.
- The STM Safety Net Component (STMSN) continuously updates target data and triggers alerts if there is one or more potential collision or violation
- The STM Airport Resources Component (STMARM) brokers status information about airport resources including, but not limited to, gates/stands, runways, helipads, and deice pads
- The STM Flight Data Component (STMFD) provides flight data from EFS and other external sources to the STM

I2M Systems Inc. highly flexible architecture reduces risk and installation time and allows for future upgrades. STM does not require or depend upon any one manufacturer's equipment.  We can work with your existing equipment, and can even fuse data from multiple vendors in multiple formats simultaneously.

Through its core components, the STM enables safety, efficiency and capacity improvements on the airport surface and throughout the system.

I2-STM offers real benefits to the controller and the airport operator, as well as airline and FBO partners. System capabilities include:

1. Improved situational awareness
2. Maintaining safety and traffic flow in adverse weather
3. Safety nets that controllers can trust
4. Airport status information sharing (CDM)
5. Billing and statistics