



## Homeland Security Solutions

Rapid and affordable surveillance and decision support



### Benefits

- Integrated solutions address customers' prevention, protection, response and recovery needs
- Deployed and proven in defense, maritime, border and civil security domestic and international markets
- Leverages collaborative relationships to integrate best-in-class technologies
- Built on a foundation of maturing performance and customer intimacy

Raytheon provides rapid and affordable surveillance and decision support for Homeland Security, supporting its customer's mission needs in prevention, protection, response and recovery.

A number of homeland security solutions have already been deployed and proven in defense, maritime, border and civil security domestic and international markets. The Athena system, the RAID system, and Confluence™ are three such solutions that can work together to provide homeland security solutions at all levels of government.

**Raytheon**



# Homeland Security Solutions

## Athena

A highly scalable domain awareness solution proven over multiple maritime, border and civil deployments in a wide variety of environments. Designed to provide user-friendly enhanced situational awareness, Athena integrates information from numerous sources — including sensors, video cameras, mapping, location, tracking and operational information — into one common operating picture. The system can collaborate across command centers to provide them all with the same situational awareness. The result is timely and accurate information to effectively detect, deter and respond to any possible incidents in order to maintain public safety.

Athena has been permanently deployed as the backbone of the Port Area Waterside Surveillance System for the Port of Providence. It was also deployed to provide enhanced situational awareness during the 2009 Boston Marathon.

## RAID

The innovative Rapid Aerostat Initial Deployment (RAID) system uses aerostats, towers or masts, along with sensors, to provide unprecedented elevated persistent surveillance. RAID provides a bird's-eye view of an area, using cameras to see who is where, and radar to provide location and tracking.

RAID is currently providing security to warfighters in Iraq and Afghanistan. Domestically, a system similar to RAID was deployed to provide enhanced security and situational awareness support during the 2009 Indianapolis 500. The system consisted of a 56-foot aerostat equipped with a sensor package that relayed real-time information to the command center within the Indianapolis Motor Speedway. This gave security teams the ability to identify and respond quickly to any safety and security incidents.

## Confluence

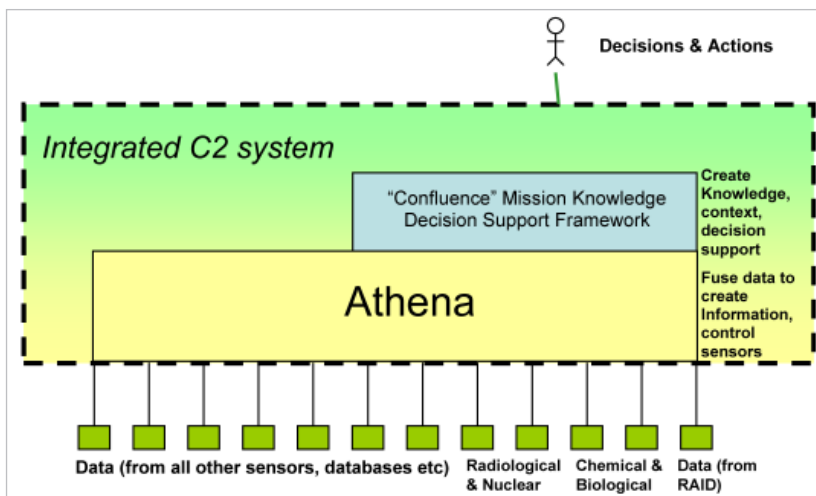
The Confluence system for knowledge-based decision support converts information into up-to-date knowledge about a situation. It then delivers feedback on accomplishments and actions and recommends next steps to achieve the goal.

In addition to tracking and managing resources and assets, the Confluence system develops an in-depth understanding of concepts and details to provide answers to complex questions as it assists in making decisions. It does this by using recent advances in knowledge representation and software agent-based reasoning to tie together and address mission knowledge in a holistic fashion.

## From Data to Decisions

Working as one integrated system, Raytheon's Athena, RAID and Confluence enable decision makers to quickly decide the best course of action, based on real-time data from numerous sources to include information from overhead.

Information from the elevated sensors in RAID is integrated into Athena along with other data to provide a single integrated view and, in turn, a common operating picture. Confluence then interprets the information and recommends the right procedural steps. As a result, hard decisions can be made promptly — and with confidence — ensuring the smooth progression of the mission.



This graphic depicts the various sensors that are integrated into Athena, including RAID. It also includes systems like the Mobile Nuclear Radiological Detection System, which provides information to Confluence to provide decision support.

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*Customer Success Is Our Mission*