



Dryden Flight Research Center
Edwards, CA
www.dfrc.nasa.gov

Industry:

Aerospace and Defense

Annual Revenue:

101 million to 500 million

Employees:

510 to 1,999

Oracle Products & Services:

Oracle Database
Oracle Application Server
Oracle Sensor Edge Server
Oracle Wireless & Voice
Oracle Portal

Oracle Partners:

Environmax
Salt Lake City, UT
www.environmax.com

Intermec
Everett, WA
www.intermec.com

Dryden Flight Research Center

Dryden Flight Research Center is NASA's premier installation for aeronautical flight research. The center's primary charter is to flight-validate advanced aeronautics, space access, and related technologies developed for government, industry, and universities. NASA Dryden also supports the human space flight program as a backup landing and servicing site for the space shuttle. Committed to "separating the real from the imagined," Dryden's research contributes to the advancement of aeronautics technology, access to space at a reduced cost, and improved safety and security for global civil aviation.

Challenges

- Develop a way to leverage new sensor-based technologies within an existing U.S. Department of Defense hazardous materials management system
- Increase the safety and security of hazardous material movement and storage
- Rapidly integrate new sensor-based technologies into the production environment
- Implement an alert system to detect unauthorized movement of hazardous material and individuals within facilities

Solution

- Implemented Oracle Sensor Edge Server and its Oracle Radio Frequency Identification (RFID) functionality to create an integrated sensor management system for tracking personnel and hazardous materials
- Combines RFID data with data from other sensors and tracking technologies for increased visibility and reduced risk
- Correlates data collected from various sensors and zones to ensure immediate intelligence processing and alert first responders and management personnel
- Ensures that personnel are working in authorized workspace and that chemicals are properly stored in correct facilities and location
- Oracle Partner Intermec supplied RFID readers, antennas, and tags, and Oracle Partner Intermec oversaw installation of the RFID equipment to ensure the correct radio frequency for the environment