

Safety, efficiency and modernization

VAISALA

Case Study



The client:

Argentine Air Navigation Service Provider (EANA)

Vaisala solution:

AviMet® AWOS

AviMet ICAO Compliant RVR

Observation Network Manager NM10

THE CHALLENGE:

Advanced technology for diverse airports

EANA manages dozens of airports with unique climates and sizes. From deserts to jungles and ILS CAT I to CAT III, maintaining ontime flights and safe operations looks different at every airport.

The organization set out to upgrade the airports—including three of Argentina's largest—that would benefit the most from new weather observation technology. Renewing each airport's infrastructure would improve the reliability of data reporting and reduce the amount of maintenance required.

EANA sought much more than advanced technology. They needed an organization that would partner with them to analyze each site and determine the optimal sensors and systems that would improve the airports' situational awareness for greater efficiency and safety.

THE APPROACH:

World-class systems designed to meet local needs

EANA selected Vaisala AviMet® Automated Weather Observing System AWOS for all airports for its high accuracy and reliability. The AviMet AWOS collects, processes and visualizes meteorological data in compliance with the International Civil Aviation Organization and World Meteorological Organization standards. The system helps aviation personnel make critical decisions by providing continuous, real-time reports on airport weather conditions.

Fully integrated with AviMet AWOS is the Vaisala AviMet® Runway Visual Range System (RVR). Based on Vaisala LT31 transmissometer technology, the AviMet RVR system provides fully automated runway visual range assessment and

"One of EANA's management keystones is our technological infrastructure improvement. We are therefore so impressed with Vaisala and their technology. The AviMet system is significantly improving safety and efficiency at Argentinian airports, and helps us get ready for future growth. They also suggested NM10 for centralized information about airports, which has been a great asset to our operations."

*Gabriela Logatto
President and General Manager, EANA*

reporting, including a calculated estimation of the distance a pilot can see down a runway. This data is critical to ensure maximum safety and efficiency for take offs and landings, especially in Argentina's airports that experience foggy or rainy conditions.

In evaluating their needs at the beginning of the implementation, EANA integrated Vaisala Observation Network Manager NM10. This software gives them centralized status of the AviMet systems running in the network, as well as direct measurements from neighboring airports or a designated Flight Information Region (FIR).

THE RESULTS:

Improved safety, efficiency and communication for growth

With several airports now fully upgraded to the AviMet AWOS and AviMet RVR systems, EANA is already reaping the benefits: real-time, uninterrupted data on current weather conditions for maximum safety and operational efficiency. Three of the country's largest airports accomplished CAT III for meteorology following the installation.

Pilots, air traffic controllers and managers now have the dependable information they need for better decision making such as what weather conditions to be prepared for and when to adjust operations to avoid weather hazards. The organization also saves time and improves communication network-wide with critical status updates of all AviMet stations from a single location.

EANA has gained the confidence of knowing that the Vaisala systems are designed to grow with the needs of each airport, so they can plan the most efficient and beneficial expansions. The installations will continue to the rest of the airports with estimated completion in 2022.

Finally, the updated infrastructure is enabling business growth around the airports, leading to improvements for airports and communities alike.

Why Vaisala?

For over 45 years, Vaisala has been a pioneer in aviation weather technology, ensuring that every measure is taken for unparalleled safety, efficiency, and sustainability.

Our gold standard suite of solutions is trusted in more than 170 countries and over 2000 airports globally. In fact, every commercial flight around the world will use weather observations produced by Vaisala equipment or forecasts driven by our sensor measurements at some point in their journey.

With a commitment to constantly evolving our portfolio, Vaisala remains at the forefront of the industry, continuously exploring new horizons.

