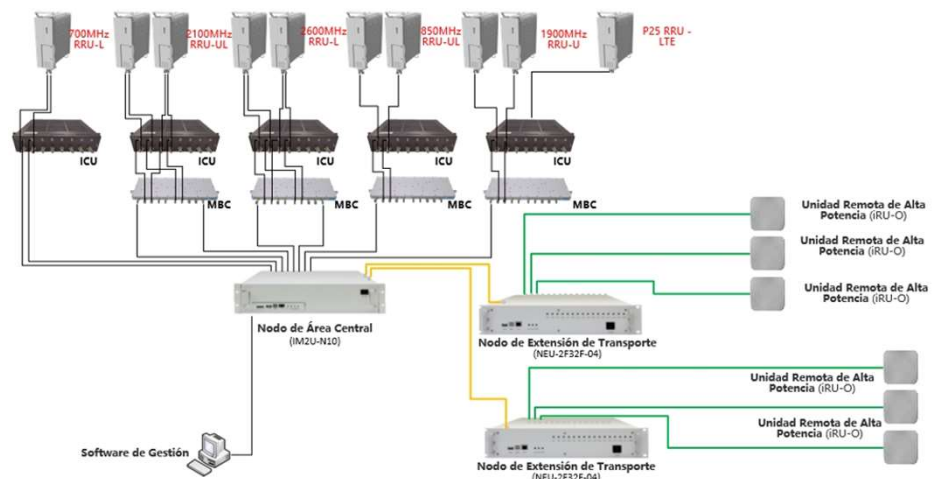


Revolutionizing Connectivity: How AIFA Achieved Seamless Connectivity

■ Background

Felipe Ángeles International Airport, also known as AIFA (Spanish: Aeropuerto Internacional Felipe Ángeles), stands as Mexico's newest and most sophisticated aviation landmark. Unveiled in March 2022, AIFA's architectural grace harmoniously blends with state-of-the-art interior facilities, offering passengers a delightful shopping and dining experience. Situated close to Mexico City, the airport is seamlessly accessible to the nation's capital.

AIFA's pivotal mission revolves around alleviating the immense burden borne by Mexico City International Airport (AICM). In 2021, AICM accommodated a staggering 36 million passengers, straining its operational limits. This pressure reached a peak in 2019 when AICM recorded 50 million travelers, significantly surpassing recommended security thresholds. Temporary relief came in the form of the pandemic and the suspension of Interjet operations in 2020. Still, as normalcy returns, AICM faces an inevitable pressure.¹



■ Requirements

The terminal of AIFA has been designed with a floor area of 384,128.16 square meters and an annual capacity of 20 million passengers.²

A critical requirement for the Airport Authority was to implement one shared system capable of handling 5 different frequencies and multiple technologies with multiple operators.

■ Solutions

To address this challenge, PROSE provided a robust wireless indoor communication solution: Enhanced PROSE Integrated Coverage Low Power Remote Unit (EPIC-LPRU). Terminal 1, the epicenter of AIFA's activity, witnessed the installation of around 100 iRUs (Integrated Remote Units). These iRUs operate across multiple frequencies, including 850, PCS, AWS, 2600, and 700,

catering to the requirements of the Airport Authority and carriers AT&T and Telcel.

1. Mexico's new international airport gets ready for takeoff, english.elpais.com

2. AIFA Informa, aifa.aero

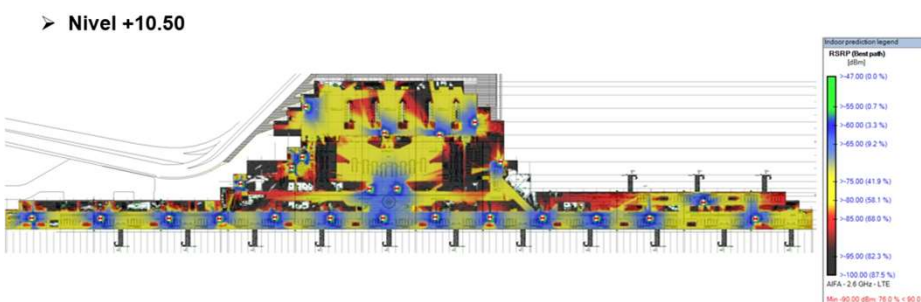
■ Benefits

The successful implementation of EPIC-LPRU's solution has ushered in a new era of connectivity at AIFA, offering an array of benefits that revolutionize the digital landscape:

- **Multi-Operator Harmony:** The integration of different bands from three carriers seamlessly optimizes coverage and capacity, promising an unparalleled digital experience for passengers and staff.
- **Unified Connectivity:** The solution unifies 2G, 3G, and 4G into a single, efficient unit, streamlining network management and future-proofing connectivity.
- **Reliability Redefined:** With low latency and high output power, travelers and airport services now enjoy robust and reliable applications, ensuring seamless operations.
- **Eco-Conscious Design:** The compact and energy-efficient design of EPIC-LPRU, coupled with natural cooling mechanisms, not only reduces environmental impact but also maintains peak performance.
- **Expanded Coverage:** The uplink performance enhancements translate to increased cell coverage and overall network quality, elevating communication for all users within the airport.
- **Cost-Effective Excellence:** The implementation offers a cost-effective approach with reduced field-testing requirements, eliminating the need for additional localized power sources for remote units, thereby streamlining deployment.



The Felipe Ángeles International Airport now stands as a testament to innovation, where enhanced connectivity has alleviated the pressure on Mexico City International Airport and elevated the digital experience for passengers and staff. With EPIC-LPRU's solution in place, AIFA has embraced the future of aviation, where technology and operational efficiency converge seamlessly.



Simulation of ETP (Encounter Transfer Protocol) - 2,600 Mhz LTE - Departure Level

PROSE

