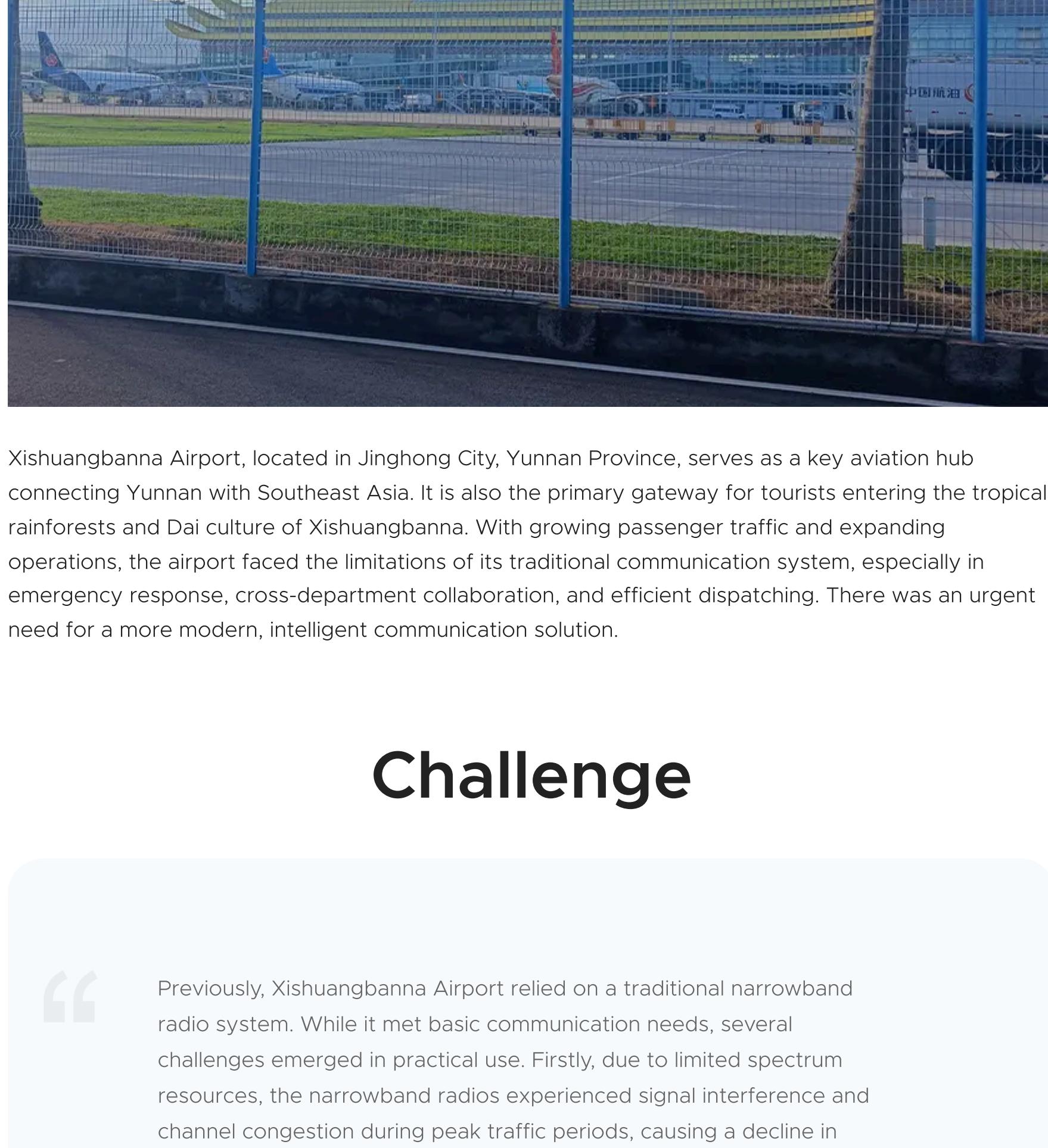


Inrico Enhances Communication System at Xishuangbanna Airport, Improving Operational Efficiency and Safety

Jul.11/2024



Xishuangbanna Airport, located in Jinghong City, Yunnan Province, serves as a key aviation hub connecting Yunnan with Southeast Asia. It is also the primary gateway for tourists entering the tropical rainforests and Dai culture of Xishuangbanna. With growing passenger traffic and expanding operations, the airport faced the limitations of its traditional communication system, especially in emergency response, cross-department collaboration, and efficient dispatching. There was an urgent need for a more modern, intelligent communication solution.

Challenge

Previously, Xishuangbanna Airport relied on a traditional narrowband radio system. While it met basic communication needs, several challenges emerged in practical use. Firstly, due to limited spectrum resources, the narrowband radios experienced signal interference and channel congestion during peak traffic periods, causing a decline in communication quality and efficiency. Secondly, the system had limited coverage, particularly in remote areas such as the tarmac and underground parking lot, far from the terminal. Furthermore, communication between multiple departments lacked effective support, particularly during emergencies, when the timeliness of information transfer and dispatch efficiency were insufficient.

Solution

After thoroughly understanding the needs of Xishuangbanna Airport, Inrico provided a customized communication system upgrade solution. This solution included S100 Smart PoC Radio, and TM-7Plus Smart Mobile Radios, leveraging Inrico's strengths in wireless communication and dispatching platforms to significantly enhance communication efficiency, coordination, and safety across the airport.

Comprehensive Wireless Network Coverage

Inrico provided a fully integrated wireless communication network based on public cellular networks, overcoming the frequency limitations of traditional narrowband radios. This solution ensured seamless communication coverage throughout the airport, including the terminal, security checkpoints, tarmac, and parking areas. The system's anti-interference capabilities were greatly improved, ensuring stable operation even during high traffic periods, preventing signal congestion and interruptions common in traditional systems. This enhanced the reliability and stability of the airport's communication infrastructure.

Multi-Group Management and Multi-Level Dispatching

Inrico's system not only solved the coverage issue but also introduced advanced multi-group management and multi-level dispatching features, significantly improving inter-departmental collaboration at the airport. Through multi-group management, airport departments (such as security, operations, ground services, and safety) could communicate within their respective groups, while cross-department coordination could be facilitated through the dispatching platform for fast response.

The system's multi-level dispatching function allowed the command center to swiftly allocate resources and make decisions, ensuring efficient coordination of actions across departments during both routine operations and emergency responses.

Emergency Handling and Precise Command

Inrico's communication system was designed with a particular focus on emergency response capabilities. The system includes emergency call and priority dispatch functions, ensuring that key personnel receive priority instructions and respond quickly in the event of a crisis. Staff can initiate emergency calls via their radios, triggering immediate responses from relevant departments.

Simultaneously, the command center can track the real-time location and status of personnel and departments through audio and video feeds, making quick decisions and precise commands. This reduces response times and mitigates risks, ensuring the safety and stability of airport operations.

Xishuangbanna Airport's management team highly praised Inrico's communication system. The airport director commented, "Throughout our collaboration with Inrico, we were impressed by their technical expertise and professionalism. With this communication system upgrade, our operational efficiency has greatly improved, particularly in emergency response and inter-department coordination. We now have greater confidence in handling the daily challenges of airport operations."