



eSIM services on private networks redefine connected mobility

IoT Now highlights how 5G IoT technology is playing a role in creating new opportunities for connectivity providers, device manufacturers and enterprises in 2024. Kigen shares how security and trust unlock next-generation experiences and what's important to know now

Embedded SIMs (eSIMs) can support cost-savings with further advantages in managing device fleets across enterprise devices. By bringing the improved ease and experience of connectivity profile distribution of Consumer eSIM to IoT, the new specification in SGP.32 also supports other services that redefine secure connectivity. Take the example of connected aviation.

- 190 million passengers will travel internationally through Beijing's new Daxing International Airport, within the 40 day Lunar New Year Spring Festival¹
- 500% predicted growth for the travel eSIM retail market between 2023 and 2028 as leisure and business travellers embrace eSIM travel plans²

The challenge

Large airports serving regional flight hubs are small cities. For example, Charles De Gaulle airport in Paris employs more than 230,000 professionals, who may use connected services to improve the traveller experience, such as passenger hospitality or transit of cargo and people, while maintaining ambitious goals for the airport to be more sustainable and more innovative.

Connected assets

Sensors, enabled by secure network connectivity, deployed on physical assets to collect and transmit usage and location data for real-time scheduling and dynamic coordination across authorities, tenants and passenger services.

Connected operations

Replacing obsolete siloed technologies, airports are expanding the use of autonomous vehicles and robots in airports. These in turn depend heavily on the availability of secure, eSIM-secured low-latency networks.

Maximising security

There is a need to separate operational and passenger usage and traffic among networks, essential for security, safety and privacy reasons.

Planning for the future

Airport operators require complete visibility and control over their wireless infrastructure - from planning and deployment to operations and upgrades.

The solution

Private networks with **Kigen's** extensive ecosystem of leading connectivity providers, with Kigen's Remote SIM Provisioning secure services and enablement suite, simplify digitalisation for an airport that never rests. Combining and augmenting an increasing number of innovative connected services and devices with added intelligence, all supported by security in multiple forms, 5G IoT is helping shape the future of aviation.

The connected airport is a far more familiar scenario than other connected functional arenas such as campuses, stadiums, oil and gas fields or mining sites, which also benefit from this solution. ■

www.kigen.com

¹ Ministry of Transport and Tourism of China, Jan 2024
² Kaleido Intelligence Research, Oct 2023