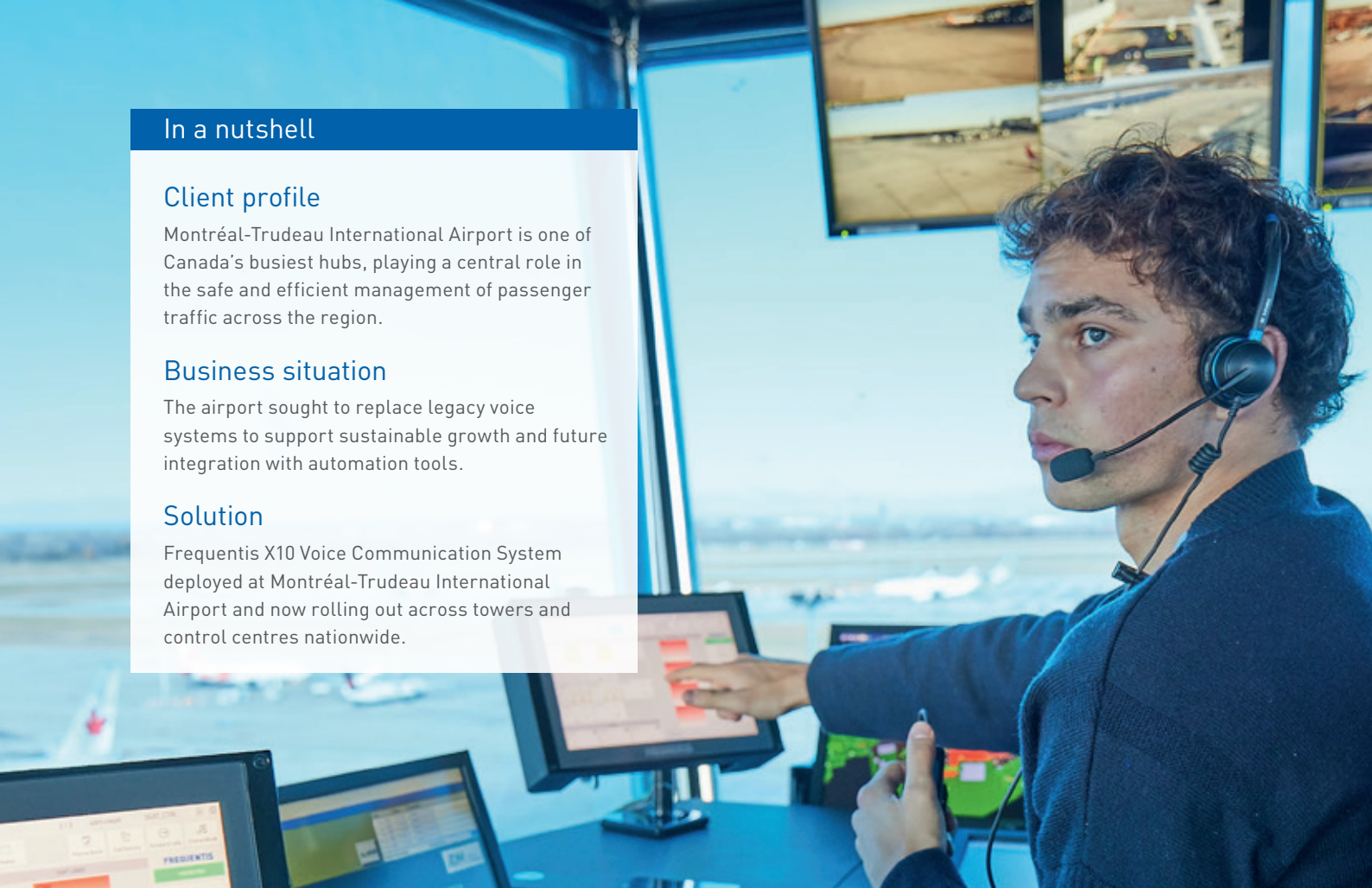


A photograph of an air traffic controller in a control room. The controller is a young man with curly brown hair, wearing a dark blue sweater and a headset with a microphone. He is looking intently at several computer monitors displaying flight information and radar. The background shows a large window with a view of an airport tarmac and runways under a clear sky.

In a nutshell

Client profile

Montréal-Trudeau International Airport is one of Canada's busiest hubs, playing a central role in the safe and efficient management of passenger traffic across the region.

Business situation

The airport sought to replace legacy voice systems to support sustainable growth and future integration with automation tools.

Solution

Frequentis X10 Voice Communication System deployed at Montréal-Trudeau International Airport and now rolling out across towers and control centres nationwide.

Future-ready voice communications across Canada's busiest skies

Montréal-Trudeau International Airport, one of Canada's busiest and most forward-looking hubs, sought to modernise its voice communication systems to support growing passenger volumes and future automation.

The airport needed a flexible, reliable solution to sustain 24/7 tower operations and long-term digital transformation. Frequentis delivered that capability

with the X10 Voice Communication System (VCS), setting a new benchmark for tower communications.

Following YUL Montréal-Trudeau success, the X10 will be rolled out across approach towers and control centres throughout Canada. This is building a modern, scalable foundation for safer, more efficient air traffic management.

Montréal-Trudeau International Airport is demonstrating how targeted innovation at a critical hub can inspire system-wide evolution, strengthening core infrastructure while laying the groundwork for automation and sustainability.



Operational awareness

Enables seamless, real-time voice coordination across towers and control centres for improved situational awareness.



Scalability and automation

Delivers future-ready infrastructure to support dynamic frequency use and integration with automation systems.



Modernising tower communications at YUL Montréal-Trudeau

At Montréal-Trudeau International Airport, the X10 is delivering measurable operational improvements. Replacing a legacy platform in one of Canada's busiest towers, it has enhanced controller-to-pilot coordination with improved audio clarity, faster response times, and a streamlined, user-friendly interface tailored to high-traffic environments.

The deployment marks a strategic shift toward scalable, digital tower operations. With X10's dynamic frequency distribution and service-oriented architecture, the airport gains a future-ready foundation that supports seamless integration with emerging automation platforms. These capabilities strengthen resilience during peak operations while enabling smoother traffic flows and fewer manual interventions. The modular nature of X10 also facilitates phased upgrades, allowing air navigation service providers to evolve their systems with minimal disruption and investment risk.

YUL Montréal-Trudeau implementation also supports the airport's sustainability ambitions by reducing

communication bottlenecks and minimising delays, factors that contribute directly to improved fuel efficiency and lower carbon emissions. For tower personnel, the system reduces cognitive load, improves situational awareness, and allows for faster response in critical scenarios, ultimately boosting confidence, collaboration, and safety margins. The successful implementation of X10 has positioned YUL Montréal-Trudeau as a reference site within Canada's air traffic management community. The project demonstrates how modernising a key control facility can deliver results quickly, from technical reliability and maintainability to operational efficiency and strategic future-readiness.

The broader impact of this innovation is now extending across the country, with the same technology being introduced to across the entire country. This creates a unified voice communication environment that supports national-scale digital transformation, fosters operational consistency, and reinforces aviation safety standards across diverse regions.

FREQUENTIS

Further information



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