

## **FREQUENTIS to deliver one of the world's largest Air Traffic Control deployments with X10 communication system across Canada**

- **Country-wide main voice communication and gateway project for 100 NAV CANADA facilities with over 1,000 operator working positions**
- **X10 Voice Communication System (VCS) has a unique multi-redundancy concept to deliver unrivalled availability and safety**
- **State-of-the-art Human Machine Interface (HMI) for air traffic controllers using innovative context sensitive gesture control**

NAV CANADA, the Canadian Air Navigation Service Provider, has selected Frequentis to provide its standardised and interoperable (ED137-compliant) X10 VCS for all Air Traffic Control & Flight Specialists communication facilities.

Representing one of the largest deployments of VCS and Radio/Telephone Gateways worldwide, this project will include all of NAV CANADA's operational facilities, and support sites, significantly improving communication across the whole Canadian airspace. Frequentis X10 will interface with over 3,500 VHF (very high frequency) Radios, enabling seamless ground-to-ground voice communication, between NAV CANADA operational facilities, aircraft operators and airports.

“Our next-generation VCS will reinforce the coherence of airspace operations throughout Canada and will support NAV CANADA by streamlining the project roll-out as well as providing the necessary resilience and cyber security features required today and for the future,” says Michael Lang, Managing Director Frequentis Canada. “Maintaining the system across Canada's vast landscape and remote locations, will be simplified with the X10 thin-client operator working position concept, based on central deployment and monitoring of all locations.”

The Frequentis X10 features a unique multi-redundancy design with the introduction of the aeronautical data service provisioning (ADSP) concept for voice. With its network-centric, service-oriented architecture, the software-based X10 VCS will be installed on NAV CANADA's network infrastructure. The project will provide the highest levels of safety, availability, and flexibility benefits via sharing of data centres, phone gateways and frequency services, including fully duplicated parallel running audio. Additionally, the flexible data centre approach supports full virtual centre capabilities, allowing easy dynamic re-sectorisation and fast contingency operation in case of unforeseen outages, including the ability for controllers to use any frequency from any site, at any time.

The X10 VCS offers its operators an intuitive, human-centric, and context-sensitive HMI design. With its on-line reconfiguration, the X10 interface is highly adaptable to various operational needs, adding value to every air traffic control (ATC) and flight service specialist's (FSS) operation. With its approach to cyber security, the Frequentis X10 ensures that ATC communication is delivered while prioritising safety amid evolving airspace demands.

“Frequentis has been a partner of NAV CANADA for over 25 years, and we are thrilled to be cooperating with them as part of one of the largest VCS implementations globally,” says Mark Cooper, Vice President, Chief Technology and Information Officer, NAV CANADA. “This partnership will allow us to improve the resiliency of our systems, while ensuring our customers continue to receive safe and efficient air traffic services across Canada.”



## About NAV CANADA

NAV CANADA is a private, not-for-profit company, established in 1996, providing air traffic control, airport advisory services, weather briefings and aeronautical information services for more than 18 million square kilometres of Canadian domestic and international airspace. The Company is internationally recognized for its safety record, and technology innovation.

## About FREQUENTIS

Frequentis is a global supplier of communication and information systems for control centres with safety-critical tasks. The listed family company develops and markets its “control centre solutions” in the Air Traffic Management segment (civil and military air traffic control, air defence) and the Public Safety & Transport segment (police, fire brigades, emergency rescue services, railways, coastguards, port authorities). With a market share of 30%, Frequentis is the world market leader in voice communication systems for air traffic control. Frequentis is also the global leader in aeronautical information management and aeronautical message handling systems.

As a global player with around 2,200 employees (full-time equivalents/FTE), Frequentis has a global network of companies and representatives in more than 50 countries. Its head office is in Vienna, Austria. Frequentis' products, services, and solutions are used at more than 45,000 operator working positions in around 150 countries. Shares in Frequentis are traded on the Vienna and Frankfurt stock exchanges; ISIN: ATFREQUENT09, WKN: A2PHG5. In 2022, revenues were EUR 386.0 million and EBIT was EUR 25.0 million.

Wherever Frequentis' systems are used, safety-critical operators bear responsibility for the safety of other people and goods. The company also works towards a more sustainable future through its air traffic optimisation solutions.

For more information, please visit [www.frequentis.com](http://www.frequentis.com)

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