

1120 Vienna, Wolfganggasse 58 – 60
Tel: +43/1/811 50-0; Fax –1319

marketing@frequentis.com
www.frequentis.com

Vienna, February 2006

Customers around the world put their trust in the Frequentis VCX

The VCX is the all-in-one communication network platform for Air Traffic Control

Beginning with the product launch in 2002, the Frequentis VCX Network Node began its triumphant success. References around the world - Austria, Germany, Switzerland, Mexico, Australia and New Zealand - are evidence of the market acceptance of the VCX-concept. The Frequentis multi-protocol router VCX was developed especially for safety and mission critical ATC applications. With the Frequentis VCX single node systems as well as continent-wide networks are realised.

Future-proof concept

The main challenges of today's Air Navigation Service Providers are enhancing safety, and reducing total cost of ownership. Frequentis stays abreast of these challenges contributing the VCX Network infrastructure product. As a recognised international leader in the technology market, Frequentis makes new technologies useful to the customer and guarantees that well-tried and tested systems and applications continuously impact the development of updated and future systems.

The Frequentis VCX enables ANSPs to integrate safety critical data and operational voice shared between air traffic control centres and remote sites and to build country wide communication networks. This facilitates the integration of ATC-facilities and applications that have so far been separated.

Furthermore the Frequentis network infrastructure product interfaces ATC services to various backbone networks and ensures flexible connections to different types of equipment for data and voice applications. It offers network features like gateways between various domains, e.g. from TDM-voice to VoIP or from radio to telephone.

"ATC is always mission-critical. We therefore always emphasise safety and availability," says Hannes Bardach, Managing Director Frequentis. Critical processing elements of the Frequentis VCX are duplicated or even tripled, providing highest availability. Additionally, the Frequentis VCX incorporates several backup features to extend availability to a maximum.

Flexibility in usage

Some of the references exemplify the flexibility in usage: the solution for the ACC Geneva (part of skyguide's VISTA programme) includes a telephone back-up system based on the VCX platform. For AustroControl the VCX is the basis for a country wide digital radio and telephone network. And for Airservices Australia Frequentis provides the VCX network node for setting up a continent wide fully redundant, digital Air Traffic Service (ATS) network.

Success Stories – An Overview

The Austrian-wide voice-data network

The triumphal procession of the Frequentis VCX network node started in Austria in 2002. The technological masterpiece – developed in close co-operation with Austro Control – interconnects the Area Control Centre, the Approach systems, Towers and 14 radio sites of Austro Control. Hence the VCX network combines all communication resources facilitating flexible assignment and reconfiguration for fast adaptation to operational needs.

VCX Network Germany

In late 2004 the contract had been signed by the German Aviation Authority, to deliver a network for safety-critical communication for Frankfurt's approach control. The VCX contains eight network nodes, which allow uniting different, and up-to-now separated communication systems – Tower and Approach Frankfurt as well as ACC Langen – into one network. This increases safety and airspace flexibility. As an additional feature of the Frequentis VCX, airspace control could, if necessary, be diverted to another air traffic control centre within seconds.

From Austria to Australia and New Zealand

In 2003 Airservices Australia selected Frequentis for Australia's digital ATC radio network. The so called VHFSUP Project consists of 159 VHF radio sites and 6 HF sites providing air traffic services communications throughout the entire Australian continent's airspace. Hundreds of new VHF ATC radios will be connected to Airservices Australia's air traffic control facilities via a fully redundant, integrated network using the Frequentis VCX network infrastructure product.

In June 2005 VCX achieved sustained access, when the contract for the provision of a country wide integrated VCS/VCX Data/Voice Network solution was signed with Airways New Zealand. This project includes the provision of 23 VCS 3020X systems and 70 VCX Network Nodes located at all ACC, Airport and Radar/Radio sites. The Frequentis VCX integrates all Airways New Zealand facilities into an unified network radio, intercom, telephone, information and radar communication. The VCX network provides full contingency operation between Christchurch ACC and Auckland ACC and backup facilities to maintain operation even during major backbone outages.. With this national end-to-end communications platform Frequentis has a 100% market coverage in terms of ATC communications .

Mexico goes VCX

The current contract, signed in december 2005, for the delivery of a nation-wide VCX Network for Mexico is of strategic importance because this is the first VCS installation in America. The VCX Network will cover all Aera Control and Approach Centres as well as all SENEAM Mexico Towers.

Hannes Bardach proudly states: "The VCX network node is the choice for an integrated network network especially designed for Air Traffic Control. It helps our customers improving their services, enhancing safety and optimising costs."

About Frequentis

For Background Information about Frequentis please see www.frequentis.com.