



Selected references

Defence communication
and information solutions

Defence selected references

Frequentis has been providing the defence market with mission-critical communication, information and surveillance systems for over seven decades. The fully redundant, highly-available communications framework is used by joint and combined forces in today's command centre operations – be it in the air, at sea, or on land. The offering also includes end-to-end system integration and turnkey delivery capabilities, allowing customers to focus solely on their core mission. The cross-segment approach addresses the market need for inter-agency collaboration and shared situational awareness.

Mindefensa, Colombia

First nationwide air defence network for Joint Forces (Army, Air Force, Navy). The largest IP-based air defence network in the nation's history has a decentralised architecture, boasts synchronised recording of voice, video, and radar, as well as communication networked via landline, VSAT and microwave. Each operator position accesses each resource for remote voice and radio control of legacy radios.

U.S. Navy Shipboard ATC, USA

Single provider of the Shipboard ATC Control (SATCC) system to the U.S. Navy aircraft carriers and amphibious helicopter fleet. Successfully tested and certified defence voice communication system (VCS) to most stringent shipboard ruggedisation standards: MIL-S-901D shock, MIL-STD-167/1 vibration for ships, and MIL-STD-3009 Class B for night vision compatibility. The VCS 3020X will replace all legacy systems, is fully scalable and ready to support the migration of the U.S. Navy's future IP-based vessel infrastructure.

UCCS, United Kingdom

For almost two decades, the Frequentis VCS has been at the heart of the UK Command and Control System (UCCS). The network of systems supports early detection and response to air vehicles that represent either a potential threat or special interest in the airspace around the UK. Through project CERBERUS, the lifetime of the UCCS VCS capabilities has been extended until 2020 and is currently planning a further extension to allow the UK Ministry of Defence extra time to complete the comprehensive renewal of the system.

U.S. Army, USA

Part of a multi-year agreement with the Federal Aviation Administration (FAA) under the IVSR contract. Over 20 sites at critical U.S. Army Aviation bases have been equipped with the defence VCS, including Air Information Centers (AIC), Army Radar Approach Control centers (ARAC), and Army ATC Towers (ATCT)). The VCS 3020X is the only FAA-certified VCS in the market currently in production and deployed at over 120 FAA air traffic control (ATC) facilities.

Ministry of Defence, United Kingdom

All VCS requirements for the MARSHALL programme in order to modernise locations in the UK and overseas – including airfields and ranges – and enable long-term, safe operation of all main MoD bases, airfields, and air weapon ranges. The VCS products were provided for stationary and deployable elements, alongside a basic service support contract for 20+ years. This approach will result in savings through “managed services” thanks to improved efficiencies, scale and innovation.



Bundeswehr, Germany

For over 25 years, the Bundeswehr has been using Frequentis systems for military ATC, air defence, search and rescue tasks and missions. The National Air Policing Centre uses the company's Air Policing solution based on its incident management system for multi-agency collaboration (Air Force, Police, Public Transport). For KOFA milFS, a customer-tailored-VCS provides all military ATC services at 20+ German military airfields and two mobile towers. Further voice and data communication capabilities were integrated at the two stationary and one deployable command and reporting centres of the German Air Force (KOFA CRC), ensuring the security of German air space in close cooperation with civilian ATC agencies. The KOFA CRC systems are interlinked with a countrywide Frequentis radio network, which is being migrated to full IP. Using that network, two complete search and rescue systems will be delivered consisting of KOFA voice communication, as well as its incident management system. All implemented VCSs include DIVOS voice recording.

Armed Forces, Austria

A strong partner since 1970, Frequentis delivered the ground-air-ground communication system with RED/BLACK separation to two fixed Military Control Centres, one deployable and all remote radio sites, while also supplying communication systems to all military airbases nationwide and providing and integrating systems in the control tower of the main airbase at Zeltweg. Under the AMMTEC Link16 program, the tactical data link for the Air Force was integrated. Furthermore, the company participated in the development of the Phoenix command and control system for the Army.

FLORAKO, Switzerland

The Swiss Air Force renewed its air defence infrastructure under the FLORAKO program. The networked, countrywide communication ecosystem integrates three air defence control centres and 16 national radar and radio sites with around 300 radios, allowing flexible access to all available resources from any controller working position, including Link16 voice integration. The solution has a life cycle of 20+ years. The recent ADDC contract supports a stepwise replacement of current VCS with an IP VCS infrastructure, while the modernisation of 6 airbases with next-generation secure IP VCS has also been awarded to Frequentis.

Department of Defence/ Airservices, Australia

Since 2003, Frequentis has been a partner of both the Department of Defence and Airservices Australia for safety and mission-critical VCSs deployed in multiple security domains. Successfully delivered complex programs include the Air Battlement Management System (ABMS) Vigilare program, Tactical Air Defence Radar System and the nationwide Airservices radio network. Currently working on significant enhancements to the fixed and mobile systems of Vigilare by migrating to nationwide VOIP capabilities. Delivering the first systems under the joint Defence and Airservices OneSKY program, the world's first fully integrated civil-military air traffic management (ATM) system combining the entire Australian continent into a national, harmonised civil-military ATM system.



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