Military tower solutions

Integrated air traffic management portfolio
Increased safety and improved efficiency
Enhanced situational awareness

Defence

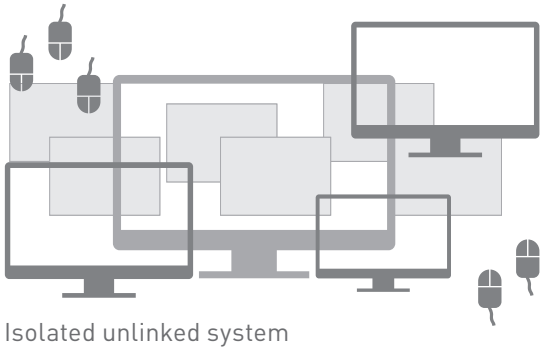
FREQUENTIS
FOR A SAFER WORLD

Efficient integration to increase mission success

Several individual air traffic management systems used at the same time negatively influence efficiency and reaction time. Because military ATC operations can change from a controlled workflow to an unscheduled scenario in a second, integrated tower solutions can increase mission success. The seamless integration of existing and new equipment into one integrated controller working position (iCWP™) achieves a workflow oriented controller environment. This ensures the fastest possible reaction time by combining clear presentation of all essential information into one application.

Integrated working position improves situational awareness

Reducing complexity and standardisation allows cost-efficiency and faster delivery of critical information as well as an increase in situational awareness by combining all information into one iCWP™.



Isolated unlinked system

Military ATC solution

Situational awareness
To achieve an orderly and expeditious flow of air traffic, an overall situational awareness needs to be present.

Efficiency
Improved situational awareness leads to increased efficiency and enables an optimised workflow management.

Safety
A higher mission success can be enabled with an increase in flight safety by seamless integration into harmonised controller interfaces.

Datalink services
Workload reduction and verbal transmission of information can be achieved by automated data links between pilots and controllers.

Interoperability
Integrated tower solutions must be interoperable to external systems and must interconnect while enabling a continuous data exchange.

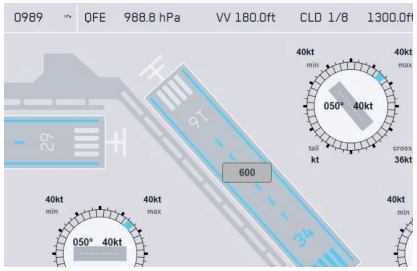
Mobile and deployable
To fulfil military requirements and operational needs, modern integrated ATC systems have to be capable for deployed missions and operations.

Maintenance
Integrated systems support lean maintenance concepts to provide proven and reliable services while reducing available resources.

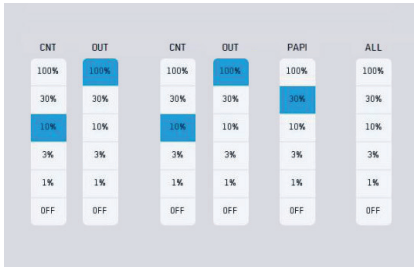
Seamless integration
Harmonised controller interfaces and workflow support are achieved by seamless integration of ATC systems.

Integration of flight information and support data

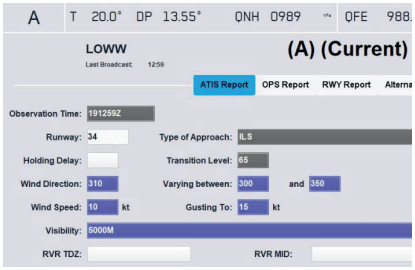
Situational awareness is increased by combining different auxiliary ATC applications, such as weather, data processing and display, automatic terminal information, service broadcasting, airbase lighting as well as tower environment control into one modular smartTOOLS solution. Frequentis smartTOOLS enables controllers to focus on safety and to control air traffic as efficiently as possible.



MET/NAV – meteorological display and navaids control



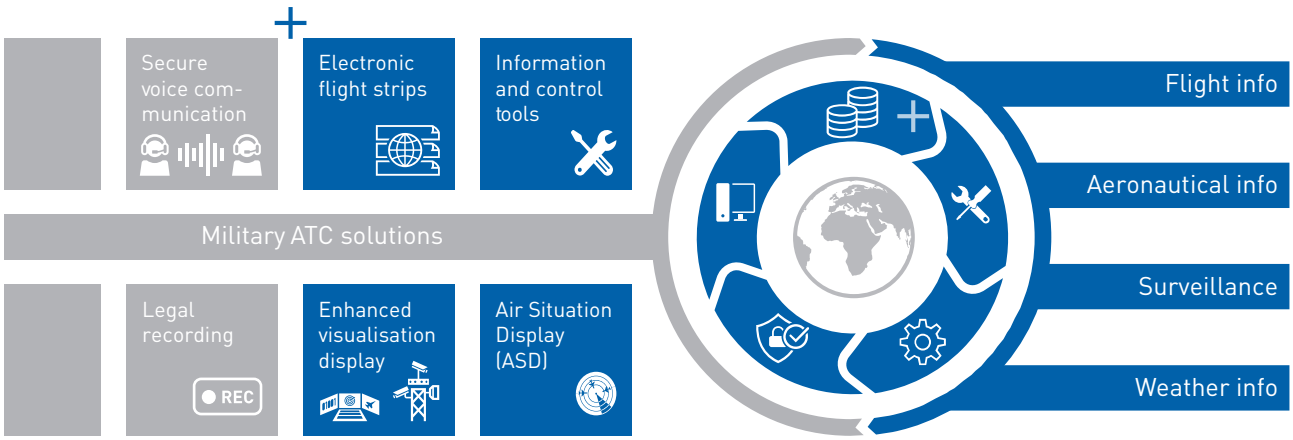
LICOS/TEC – airfield lighting and tower environment control



ATIS/VOLMET – information broadcast

Seamless integration of data for an enhanced ATC solution

The basic requirement for military air traffic control is the availability of voice communication and legal recording. The air traffic controllers' workload can be reduced and safety increased by using automated exchange of flight plan data with simultaneous entry in the electronic flight progress strips. The automatic exchange of data and workflow support reduces the likelihood of human error as well as the need for human resources. The Frequentis solution supports all phases of the flight, including ground movements.



Enhanced information processing
The integration of flight plan data and airbase information into the iCWP™ reduces the workload and streamlines the controller's focus on the job.

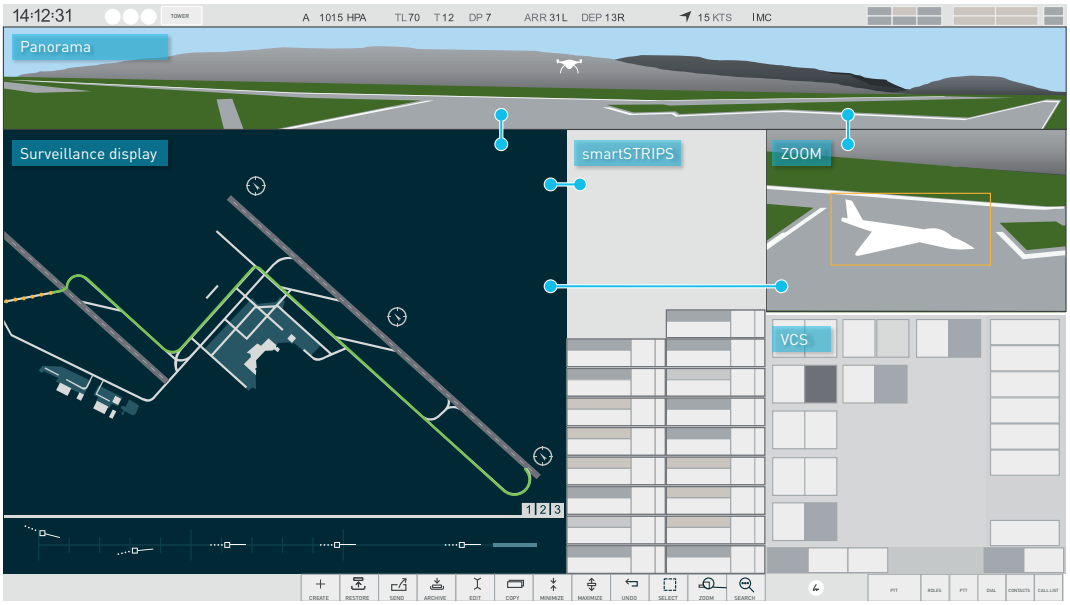
Supports collaboration and workflow
The iCWP™ supports the controller's workflow through seamless integration of information and optimised ergonomic features.

Adaptable to your concept of operation
The flexible concept enables customisation according to customer needs and requirements, while maintaining the possibility of future upgrades.

Increasing situational awareness for ATC
Surveillance information on ASDs increases the overall situational awareness of the controller and provides additional operational benefits.

Safer handling of military air traffic

Surveillance information and aeronautical information management are necessary for a safe handling of air traffic. This includes all available data about the airbase and its environment as well as all available flight data. Thus Frequentis solutions ensure the capability of a seamless integration of necessary data into one iCWP™.



Drones and their integration into civilian and military airspace pose a new challenge. Frequentis drone detection solutions help air traffic controllers to enhance full situational awareness. The handling of cooperative and uncooperative drones needs an interconnection between different stakeholders to coordinate planned drone activities as well as counter measure actions to protect critical infrastructure. This situational awareness solution can be integrated into the same iCWP™ to increase the safety and security of air traffic.

Full situational awareness
with cooperative & uncooperative traffic and blue force tracking

Minimised resolution time
by means of efficient cross-agency incident management across all hierarchies

Best use of available and new sensors
with the help of Frequentis independent experts

Standardisation & interoperability
based on an ATM-grade data fusion; all systems run in a harmonised way

Ensuring user acceptance
and the best possible solution through workflow design & analysis

Flexible working position
according to CONOPs

FREQUENTIS

FREQUENTIS AG
Innovationsstraße 1
1100 Vienna, Austria
Tel: +43 1 811 50-0
www.frequentis.com