CERTIUM VCS
THE GOLD STANDARD
FOR RELIABLE ATC VOICE

SECURE

SCALABLE

FLEXIBLE

RESILIENT

ROHDE&SCHWARZ

Make ideas real

REVOLUTIONIZING ATC COMMUNICATIONS: UNLOCKING UNPARALLELED RESILIENCE, SECURITY AND EFFICIENCY

CERTIUM VCS from Rohde & Schwarz is a cutting-edge solution for air traffic control communications, built on more than 10 years of experience in VoIP technology. With the latest generation of CERTIUM VCS, air traffic control centers can now enjoy seamless cross-center cooperation, enabling more efficient and effective communications between different control centers and airports. The system's virtual center feature allows multiple VCS systems to be combined, creating a single, unified communications platform that can be accessed from anywhere.

Additionally, the new CERTIUM VCS supports private cloud deployments, allowing customers to run key applications like radio and telephony servers on their own cloud infrastructure, giving them greater control and flexibility. Furthermore, the system's dual-homing capabilities ensure that critical communications services are always available, even in the event of a network failure or disaster, by automatically switching to a redundant network connection.

This means that air traffic controllers and pilots can continue to communicate safely and efficiently, even in the most challenging situations.

Application servers
VoIP radios
Web-based management system
IP NETWORK
Analog radios
Compact CWP
LANCOM switch
Radio & telephony gateway
Standard CWP
Classic phone PBX
IP phone
Recorder

CERTIUM VCS consists of intelligent controller working positions (CWP) and redundant application servers. CWPs communicate directly to radios and telephones via VoIP. Application servers flexibly enhance the solution with additional features such as conference calls, session replication, radio control, best-signal selection, role handing and others.

Key benefits

▶ Resilient operations
  – Distributed architecture ensures continuous operation despite cyberattacks or hardware failures
  – Geo-redundancy ensures high availability of central services, even in disaster scenarios
  – No central point of failure, ensuring total availability with zero downtime
▶ Enhanced security
  – Meets the highest security standards in SW and OS (FIPS 140-2 Level 3 certified operating system)
  – Reduces threats with secure internal communications
  – Regular upgrades during operation with the latest security patches
▶ Improved scalability and flexibility
  – Modular and expandable architecture fits any ATC setup
  – Support for private cloud deployments
  – Seamless cross-center cooperation for efficient communications
  – Dual-homing capabilities for constant availability of critical communications services

Why choose CERTIUM VCS?

▶ Proven track record of reliability and performance
▶ Comprehensive support and maintenance services
▶ Exceeds EUROCAE ED standards
▶ Decades of expertise in air traffic control communications
▶ Trusted partner in ATC communications

Upgrade to the latest generation of CERTIUM VCS and experience the benefits of a more reliable, secure and efficient ATC communications system. Leveraging the expertise from Rohde & Schwarz, CERTIUM VCS is the ideal choice for secure and efficient communications in the aviation industry.

Shaping the future with CERTIUM

CERTIUM from Rohde & Schwarz is a comprehensive and advanced ATC communications suite designed to meet evolving challenges in the aviation sector. Exceeding current safety, security and efficiency standards, the CERTIUM portfolio offers ATC infrastructure operators all the equipment needed for their communications networks, including radios, direction finders, VCS, network components, voice quality control and software.

Rohde & Schwarz

The Rohde & Schwarz technology group is among the trailblazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems and networks & cybersecurity. Founded over 90 years ago, the group is a reliable partner for industry and government customers around the globe.
The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

www.rohde-schwarz.com

Sustainable product design
▶ Environmental compatibility and eco-footprint
▶ Energy efficiency and low emissions
▶ Longevity and optimized total cost of ownership

Certified Quality Management
ISO 9001

Certified Environmental Management
ISO 14001

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