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Conex™ VCCS

Voice Communication Control System



Securing Air Traffic Communication

Conex™ VCCS offers a completely integrated VCCS system enabling Air Traffic Controller to perform „air to ground“ and „ground to ground“ communication complying with ICAO, EUROCAE and EUROCONTROL standards. The solution integrates security-related data from operational processes such as audio and video communication.

Integration of radio systems

- ED137
- Analog radio
- Digital radio (TETRA, POCSAG, EDACS)
- LTE / 5G, GSM
- VoIP (SIP, RTP, RTSP, SRTP)
- E1/T1

Easily expandable and reliable

The robust and flexible design makes Conex™ VCCS suitable for individual airports as well as nationwide high-availability solutions with regional air traffic control and can be upgraded at any time. Various redundancy variants can be implemented with Conex™ VCCS.

TCMS - Technical Control & Management System

Conex™ TCMS provides centralized management of all Voxtronic products and other SNMP-enabled devices. Individual reports enable intelligent and planned management of distributed communication systems.

Best Signal Selection

Enables automatic selection of the best signal from different radio sources through intelligent analysis algorithms.

Smart Communication.



Key Features

Due to its open architecture, Conex™ VCCS can be adapted to specific requirements and supplemented with individual functions.

GIS, geodata

The integrated position detection offers a location-specific overview during operation. The site history (subsequent evaluation and playback) allows quick decision-making. If predetermined limits are exceeded, the responsible dispatcher will be alerted by „geofencing“.

OPUS Codec

The built-in OPUS audio codec is specifically designed for interactive streaming applications with automatic bandwidth adjustment and outstanding voice quality.

Role management

Roles consist of permissions and functions assignable to a specific dispatcher.

Incident management

Conex™ VCCS supports dispatchers in capturing and handling operational incidents. The operating processes are handled according to the nature of the incident in predetermined steps. The system supports dispatchers to avoid wrong decisions.

Decision and scenario management

Conex™ supports users in managing critical communication scenarios to handle incidents more efficiently.

Reliable.



Security.



Integrated documentation

Conex™ VCCS offers an integrated recording system. It documents incoming emergency calls, missions, incidents and communication processes preserving evidence, demonstrating compliance, clarifying communication content and supporting Air Accident Investigation.

Emergency calls & alerts

Allows to define scenarios that automatically alert specific contacts during an emergency call.

Workflow management

Supports users in handling operational processes which can be defined in the system.

Documentation of voice, data and video

- Video and voice documentation (camera, radio, telephony)
- Recording screen content (screenshot, video clip)
- Live monitoring (listening, open listening, live streaming)
- Search and filter with configurable automatic prefilter

Live streaming

Allows to view live images of connected video cameras.

Recording of radar data

Supports air traffic control in the investigation and prevention of accidents and incidents.

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Video

Video systems and surveillance cameras are documented with the available additional information such as call and connection data, geodata and mission documents in a legally compliant manner.

Perimeter protection

The primary task of perimeter protection is to minimize or even prevent damage at an early stage. It is important to identify potential threats at an early stage in order to initiate countermeasures. This can ensure that unauthorised intrusions are detected in time.

Motion detection

Alerts the user audiovisually when detecting a movement.

Counting

Enables the counting of objects when passing over a defined limit. When thresholds are exceeded, the user is automatically alerted.

Heatmap

Heatmaps display the areas with the highest activity.

Metadata

Conex™ enables legally valid and tamper-proof documentation of audio, video and metadata.

Operational.



User friendly

Conex™ VCCS is intuitive, consistent and customizable. The system provides uniform user guidance and a special design for communication in safety-critical areas.

Telephony & Conferencing

The voice communication system provides all important PBX features required by air traffic controllers. Conferencing allows secure conversation and interactive off-site collaboration with aircraft, ground crew, emergency services and external participants.

Encrypted End-to-end communication

Conex™ supports point-to-point encryption and end-to-end encryption, allowing secure communication.

PAS and Announcement

Conex™ enables automatic or manual announcements on Public Address Systems (PAS).

Conex™ VCCS is an application based on Voxtronic Conex™, Operate™ and Join™.

User Friendly.

Voxtronic develops secure communication products and solutions for enterprises with high security requirements and critical infrastructure, organisations in public safety, public transport, military, maritime, financial services and industry, using the latest technologies.



Voxtronic has experience in realtime applications with large data volume, professional interface design and integrated systems. The company is certified according to quality, environmental and security standards.



Smart dispatching

Operate™ controls the optimal handling and information flow in business processes.

Gateways for special applications

Join™ combines technologies, interfaces and protocols.

Solutions for secure documentation

voxlog® professional records communication processes for compliance with legal requirements, content clarification and quality assurance.

Public address system (PA)

SmartAmp™ - the intelligent electroacoustic system in IP technology for the acoustic irradiation of buildings and outdoor areas.

Alerting, notification and conferences

Applications for emergency crews as well as specialists according to defined scenarios.

Our products and solutions increase the security of critical information, reduce the complexity of operations, improve the quality of business processes, and expand application capabilities.

Certificates

- ISO 9001
- ISO 14001
- ISO 27001

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