

DIVOS

ATM-grade recording & investigation

Thorough documentation of all activities and events is a vital task for Air Navigation Service Providers (ANSPs) to ensure safe and high-quality ATC operations. The DIVOS recording solution gives supervisors and investigators easy access to securely stored ATM-grade recorded audio, video, messaging, and data communications. DIVOS scales from single to distributed recording systems and supports each ANSP's operational mission with powerful tools and APIs for full integration within the existing safety-critical environment.

Key features

Legal recording of voice, video and radar

DIVOS supports recording of voice communication and is fully compliant with the ED137 standard. Recording of operator screens, remote tower airport cameras and radar provides further relevant details logged for future investigation.

Designed for investigators

DIVOS Investigate is a client specifically designed for incident investigators. Users can manage their investigations, search and play back recordings of interest from different channels and add findings to their report. They can add voice annotations, prologues and epilogues to their reports and even collaborate during an investigation, sharing the report with other users and protecting the results.

Secure storage and data access

Confidentiality and integrity-protection of all logged information is ensured during recording, storage and user access. The integrated audit log services document all user activities.

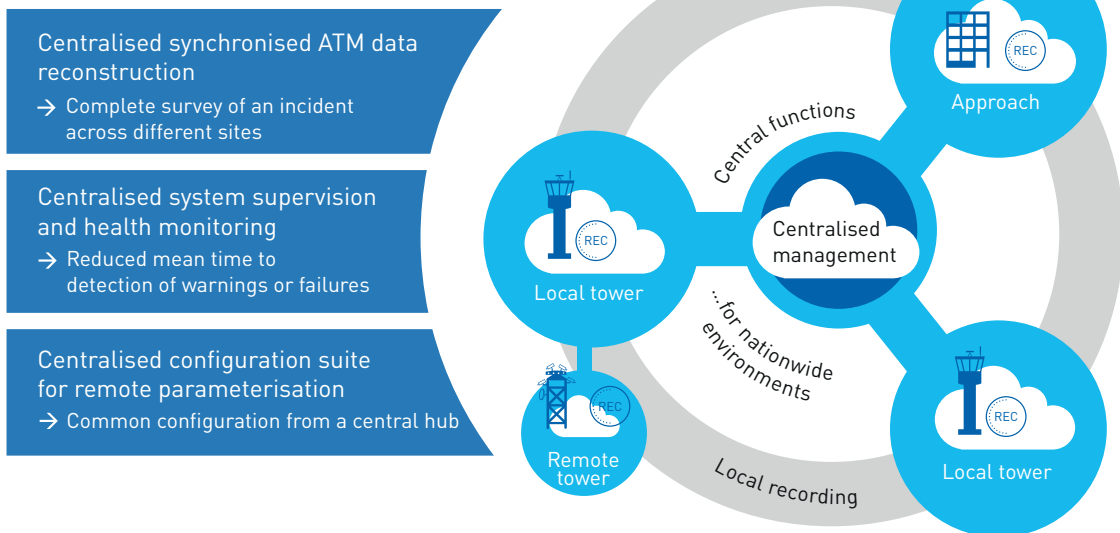
Scalable and reliable architecture

DIVOS scales from small to large, distributed and fully redundant system configurations. Administrators can monitor and manage all instances from any desk via the browser.



DIVOS at a glance

- Voice, remote tower airport cameras, “at the glass” and radar recording
- Supports standardised recording interfaces, such as ED137, SIPREC
- Highly reliable interfaces for tapping of lines
- Specifically designed for the needs of investigators
- Synchronised playback with ATM systems
- Voice annotations for investigation reports
- Management of investigation reports
- Scales from single-site system to hosted solution in a data center
- Scalable up to 10,000 concurrently recorded channels
- Frequentis processes enable ANSPs to operate in compliance with EC 482



Benefits

Easier investigation and coaching

Investigators can analyse and reconstruct incidents using recorded information from any accessible system via their workstation. Generated reports can be shared with other users for investigation and coaching purposes.

Break the barriers

Administrators and investigators can now do their job using their web browser. There is no need for dedicated workstations, while confidentiality and access control protect the recorded information.

Migrate to an integrated network

DIVOS is powerful and reliable software deployable as a stand-alone server for example at radio sites, or as a recording service on a virtualisation platform in a data center. It is designed to fit perfectly into the existing IT architecture.

Long lifecycle

Software maintenance ensures operational availability through patch management of all Frequentis and third-party software such as the operating system. This also allows customers to benefit from product evolution during their licence period.

Technical specifications

Recording	Voice: ED-137, RTSP, RTP, IETF SIP, analog lines, ISDN E1, T1, PCM30 Video: h.264, h.265 and "at the glass" with VGA/DVI/DP up to UHD ATM data: surveillance information, CPDLC
Interoperability	Frequentis communication systems, Oracle SBC, ParkAir, Jotron, Rohde & Schwarz, CISCO CUCM, Alcatel OmniPCX
Clients	Browser-based clients with integrated playback (Microsoft Windows, Linux) Synchronized playback via VCS consoles and ATM surveillance systems
Scalability	Up to 10,000 recording channels; from single site to network of systems
Availability	Redundancy at the component and system levels to achieve up to 99.99999 %
Security	Access control, confidentiality and integrity protection
Compliance	EUROCAE ED-153, ED-111, ED-137, CAP 670, ICAO Annex 10, 11 and 13
Environment	Microsoft Windows Server based virtual or physical servers; operated locally or in the cloud

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