GuardX
Unified recording for defence missions

FREQUENTIS
FOR A SAFER WORLD

Capturing mission data

Following every mission, defence organisations compile a report to be shared with authorised parties. It is essential that these mission reports include as much information as possible, since they may contain insights useful for analysing events, supporting decision-making, and enhancing future operations. However, missions introduce unique challenges: from ensuring that the full range of data is collected to guaranteeing that it remains classified, accurate, and only accessible to authorised persons.

Challenges of recording for mission reports covered by GuardX

Accessing confidential communications
The solution must be able to securely record and store confidential (including RED/BLACK) communication.

Gathering data into one place
Data sources may be spread across a large geographical area, including inhospitable locations.

Building a full picture
Reconstructing events requires data integration from multiple systems, such as surveillance, video, and radar.

Compiling usable reports quickly
Lack of embedded transcription tools can make extracting and collating data a time-consuming, manual effort.

Maintaining data integrity
Securing and preventing data manipulation is vital for safeguarding critical intelligence, ensuring operational integrity.

Ensuring easy – yet secure – access
Mission reports describing air traffic events should only be accessible to authorised parties.

Trusted solution providers
Defence organisations are looking for solutions from authorised and trusted providers.

Defence organisations need to be able to reconstruct the environment for training, military exercises, scenario simulation and critical-incident debriefs during operations. To achieve this, the recording solution must connect all systems throughout the mission. It should collect a wealth of data and serve it up in a format designed for intuitive consumption, analysis, and distribution to authorised parties.

Frequentis GuardX delivers on these requirements, empowering users to extract the insights they need from multiple sources and share them securely with the appropriate stakeholders.

GuardX captures every angle

GuardX is a comprehensive and secure recording and replay tool that contributes to the efficient compilation and secure sharing of mission reports.

Collect data from multiple distributed sources

Seamless integration of data streams from systems spread across wide geographical areas, supporting mixed network topologies and a variety of inputs: audio, on-screen displays, radar feeds, keyboard strokes and mouse movements. It eliminates the need for separate recording solutions for voice and radar systems, offering improved efficiency.
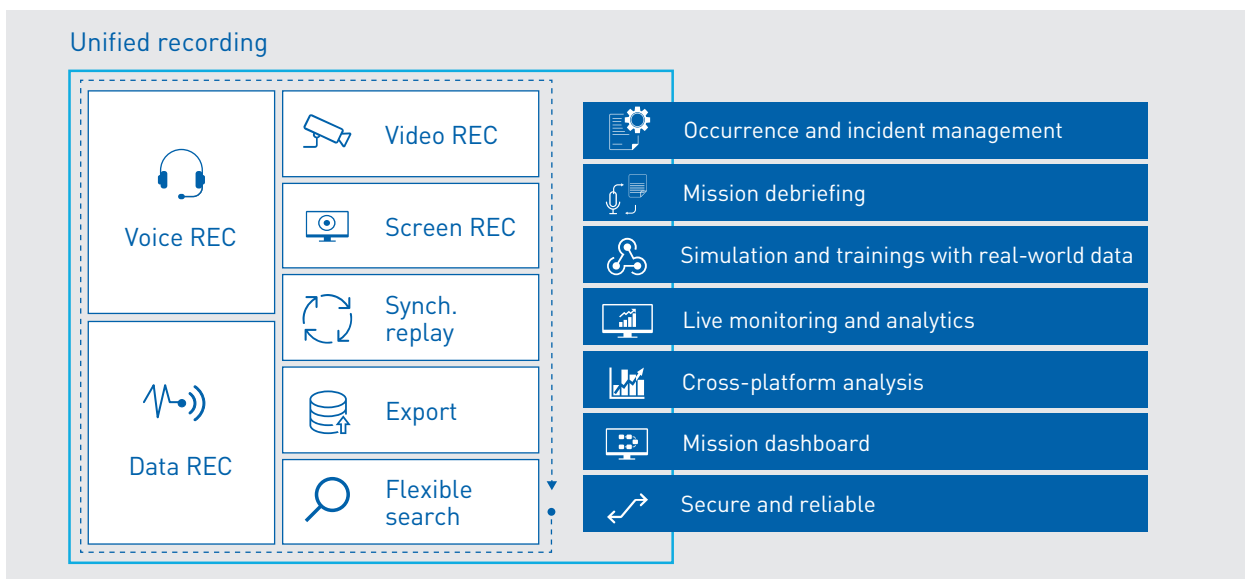
Secure data from start to finish

Mission-related recordings can be quarantined by mission name to prevent unauthorised access, whilst enabling authorised parties to find them easily. Share recordings securely with permitted persons online or offline. Prevent any manipulation of data and maintain a clear audit trail of all views and shares.

Boost efficiency of report creation

GuardX takes advantage of automatic transcription for audio communications, minimising the time and effort required to compile reports and delivering insights faster.

Utilising in-built bookmarks, users can select specific channels for investigation. By simply double-clicking on the bookmark the designated channels and the specific time for the investigation or analysis are opened. This approach is a very effective way of managing multiple channels and tools.

Unified recording

Voice REC

Data REC

Video REC

Screen REC

Synch. replay

Export

Flexible search

Occurrence and incident management

Mission debriefing

Simulation and trainings with real-world data

Live monitoring and analytics

Cross-platform analysis

Mission dashboard

Secure and reliable

Unlock powerful capabilities

Fully integrated into Frequentis communications system for defence organisations, our GuardX system frees you from the time, expense, and effort of making a choice and then purchasing and configuring a separate recording solution. Instead, take advantage of the powerful toolset integrated into your communications system to get up-and-running fast.

GuardX is also designed to fit seamlessly into any wider IT environment: it runs on Microsoft Windows or Linux operating systems and can store data on-premises or in the cloud. Its modular design enables easy deployment and scaling.

Built for the future

Technology is increasingly crucial for mission success, and understanding the challenges and goals is key to enhancing efficiency and security. GuardX is compatible with current and emerging technologies, ensuring the delivery of long-term benefits. For example, it enables the complete reconstruction of working positions for remote and digital towers, facilitating the recreation of both stitched and unstitched panoramic screens.

Asia

GuardX, currently deployed at four large air bases in Asia, with a fifth installation in progress, facilitates the recording of 1,100 radio channels on each site. The system interfaces seamlessly with analog, E1/T1, and IP technologies. GuardX employs software screen grabber technology to capture and record content up to 50 4k screens at once. Synchronous replay of both audio and screens can be performed. GuardX is equipped with Optical Character Recognition (OCR), enabling text search within the video stream. Recordings from any air base can be replayed centrally or at any location, controlled by user access.

Middle East

A defence customer from the Middle East region required a reliable recording solution for VoIP audio, radar feeds, and monitors. A critical specification was the ability to capture all sources with a single system, facilitating seamless and trouble-free synchronous replay of the recorded content. The solution was to be deployed in 13 mobile towers across the country. GuardX stood out among vendor offerings due to its compact design and remarkable capability to record multiple sources in perfect synchrony.

Europe

GuardX recorder has been installed in a military facility in Spain. Its specific function is scientific testing, technological development, training, and assembly of Unmanned and Manned Aircraft Systems (UAS) of large tonnage (up to 15 tons), both aerial and maritime, as well as terrestrial, high-performance vehicles, exclusively for R&D purposes.

Benefits

→ Improving efficiency by having one comprehensive recording solution for voice, data, video and more

→ Connect to systems in different locations

→ Reduce manual effort

→ Restrict access and storage to authorised users only

→ Prevent data manipulation

→ Enable post-mission analysis

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