

Product brief: iSecCOM

Mission critical IP comms system

Meeting both security and safety requirements in one system, iSecCOM provides single and dual security domain (RED/BLACK) IP voice communications for mission-critical tactical and operational command and control systems, serving all forces within the civil and military sectors. Adhering to military and industry standards, it gives operators everything they need for effective mission management across telephone, intercom, radio, recording, data and conference services, all via a single operator position with customisable HMI.

Key features

Proven security and reliability

The iSecCOM secure audio switch (iSAS) ensures exceptional security and secure domain separation. iSAS is the world's smallest secure audio switch and it is certified by the German Federal Office for Information Security (BSI) in accordance to Common Criteria (CC) EAL4+. Simultaneous operation within RED/BLACK security domains combines security with convenience. Integration of external GFE crypto equipment allows exchange of classified information with other systems.

Failsafe resilience

A field-proven, distributed design with no single point of failure ensures bulletproof resilience, supporting continuous operations even in the event of a command centre failure. Developed in line with ED-153 [SWAL 3] standards, iSecCOM enables convergence at the networking level, adding a high degree of flexibility without compromising on field-proven robustness and safety.

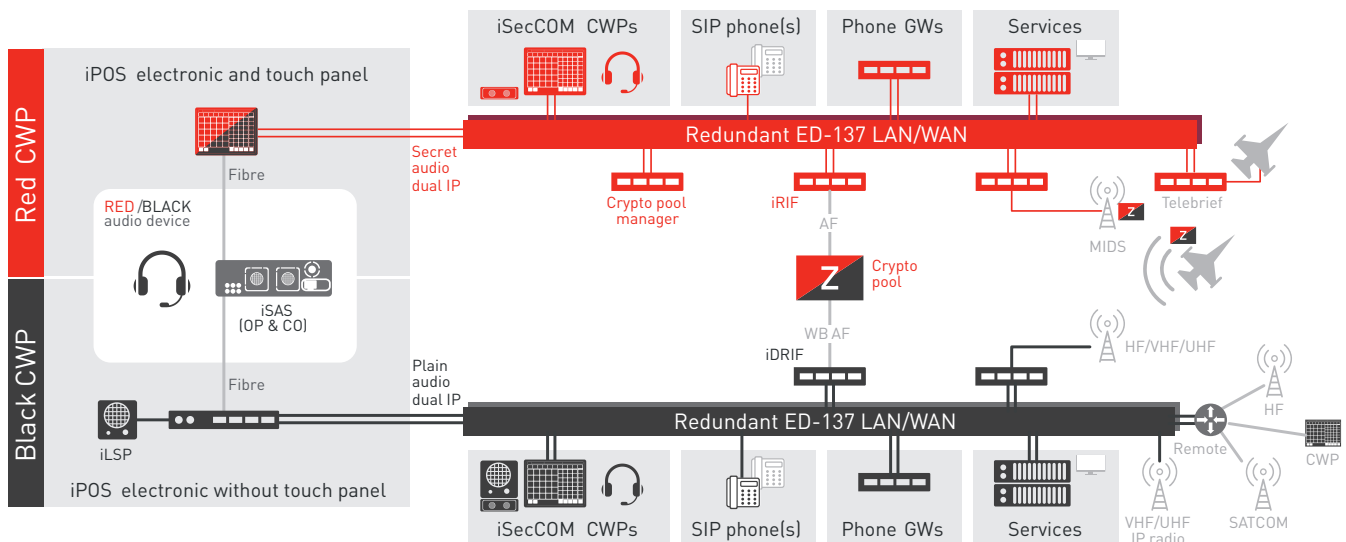
Seamless integration

Supporting industry standards for VoIP (e.g. SIP, EUROCAE ED-137/138), iSecCOM can be integrated into existing networks and is designed for full interoperability with third-party gateways, radios, SIP phones, collaboration applications, as well as legal recording and post analysis of voice, data, screens and ambiance.



iSecCOM at a glance

- End-to-end IP-based architecture
- Shared communication and information services with flexible network layouts
- EUROCAE ED-137/138 interoperability
- System robustness and resilience thanks to distributed services and decentralised call control for most components, paired with redundant and failsafe system architecture
- Trusted and certified secure audio switch
- Field proven IT-solution by several NATO and non-NATO members
- Supports from one to more than several hundred controller working positions



Benefits

Superior mission effectiveness

Give your operators an easy-to-use, comprehensive and secure toolset that provides everything needed for effective mission management, securely combining RED/BLACK voice communications in one binaural headset and HMI.

Non-stop availability where it matters

Field-proven, bulletproof technology that is designed with no single point of failure and built-in redundancy to ensure continuity of service.

De-risked operations

Ensure value into the future with an open-standards-compliant IP solution that offers a proven track record of interoperability, guaranteed long-term support, unparalleled data security and straightforward scalability.

Technical specifications

Availability	At least >0.99999
Configuration	Fully redundant single domain only, or dual domain (RED/BLACK)
Power supply	Redundant: two separate power supply lines recommended
Standards compliance	NATO SDIP-27 ¹ Level C and NATO SDIP-29 ¹ , ED136, ED137, ED 138 and ED153 SWAL3, ICAO-Standards Annex 10
Radio interfaces	VHF/UHF/HF, HAVE QUICK I/II, SATURN, ECCM ² . Fully remote-controlled
Phone interfaces	Supplied: PRI, BRI (T0), MFC, E&M, FXS, FXO, LB. Supported: 3rd-party COTS IP voice gateways, e.g. Mediant or CISCO router
End-to-end encryption	Supports COMSEC between centre and aircraft, and VINSON-compatible crypto devices connected to Frequentis crypto gateways and dynamic crypto allocation. CC EAL4+-certified secure audio switch
Recording interfaces	Integration of real-time voice and data recorders according to EUROCAE ED-137
Others	Integration of 3rd-party gateways, SIP phones or collaboration applications

¹ valid for secure audio switch, ² other ECCM modes on request

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