

GATEWAYS ULISES G5000i

ULISES G5000i is responsible for converting the analogue protocol of aeronautical data and communication network elements (radio, telephony, recorder, VCS) to VoIP allowing an efficient migration, sustainable-scalable investment, reduced cost and multiple supported interfaces.



The system design meets the ED-137B/C standard, allowing interoperability with all protocols and units produced by multiple vendors. Radio, telephony, recorder, VCS interfaces are managed by a single board, facilitating the installation and configuration of a sustainable solution.

Ulises G5000i reduced hardware investment due the large processing capacity of the boards, that can manage from 4 to 48 analogue channels in a single 19" rack of 3U high. Inside a 3U chassis we found 3 redundant different gateways with up to 16 audio channels (E&M, ATIS, ATIS/R2, ATIS/N5, ATIS/QSIG, ATIS/R2 Transit, LCEN <Intercom Normalized>, FXO, FXS, LB, CB, Audio Tunnel, Base Band Data Tunnel).

System and maintenance configurations can be done through a local gateway web or through "VCS maintenance and configuration" system.



The function of the ULISES G5000 equipment is to enable the transition of LEGACY elements of ATM systems that do not have the IP connection function for their audio services and to enable their use by VoIP equipment.

The use cases include the following types of communications:

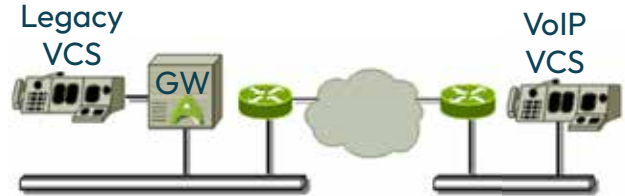
LEGACY VCS to LEGACY VCS

Through standardised T/T telephone lines (R2, N5, LCEN, FXS, FXO, E&M).



LEGACY VCS to VoIP VCS

According EUROCAE ED-137.



LEGACY VCS to LEGACY RADIO

According EUROCAE ED-137 or through audio Tunneling and ED-137 signalling.



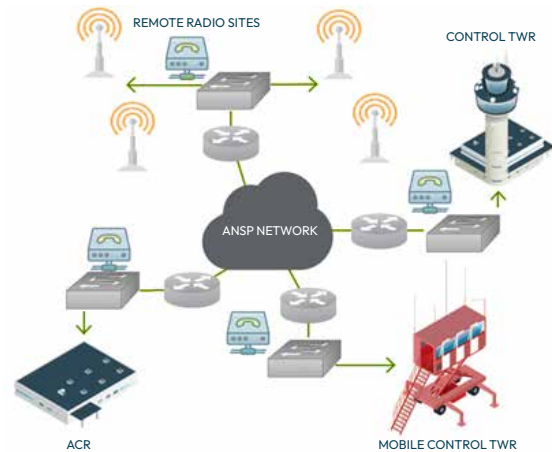
LEGACY VCS to VoIP RADIO

According EUROCAE ED-137.



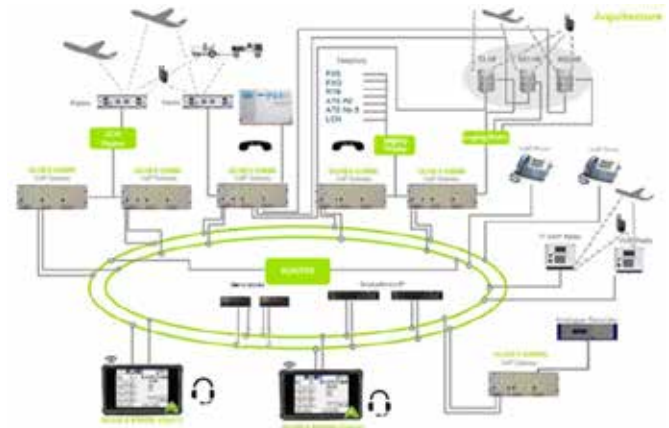
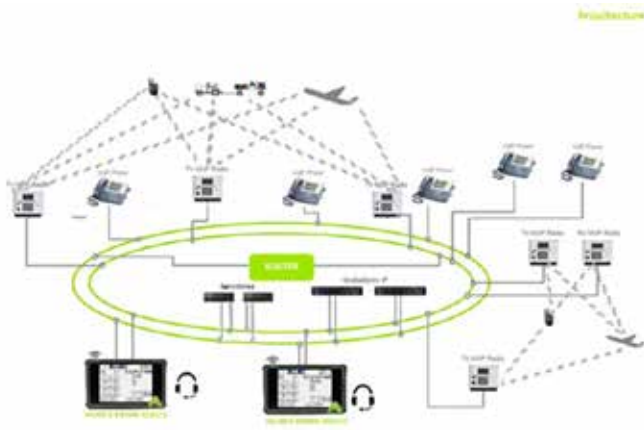
VoIP VCS to LEGACY RADIO

According EUROCAE ED-137.



ULISES G5000i facilitates the migration of analog communications (VCS, radio equipments, telephony lines, etc.) to VoIP ED-137 with a sustainable and scalable investment.

ULISES G5000i is not only interoperable with all ED-137 compliant VCS manufacturers but also offers notable advantages that make it unique with respect to products available on the market.



FUNCTIONAL CHARACTERISTICS

- Compliance with ED-136, ED-137B/C, ED-138 and SWAL4 standards.
- Availability up to 99,99% with double CPU redundancy and hot swapping cards.
- Radio Interfaces: E&M.
- Telephony Interfaces: ATS/R2, ATS/N5, ATS/QSIG, ATS/R2 Transit, LCEN <Intercom Normalized>, FXO, FXS, LB, CB.
- Other Interfaces: ATIS audio, Audio Tunnel, Base Band Data Tunnel.
- Recording System: VoIP compliance with ED-137C
- Local-remote Configurations and Management Web based. SNMP v3 protocols.
- Voice codec ITU-G711 Ley A.