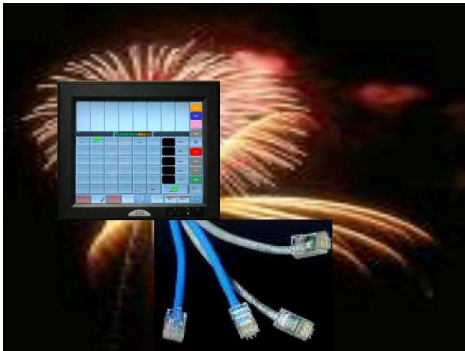




MISSION CRITICAL SYSTEMS DESIGNER, INTEGRATOR AND OPERATOR



Function

Using the latest digital technologies, SAF3000 VCS merges radio communication, telephone and intercom in the same terminal through one reliable and powerful Voice Communication Switch. If necessary; switches can be interconnected to increase the number of working positions, and/or for backup functions.

The SAF3000 VCS fulfills the most severe requirements in the fields of Ground-Air and Ground-Ground communications for both Civil and Military Control Centers.



Over a 1000 SAF 3000 VCS working positions, CS widest solution, have been running for over 2 years in a critical operational environment at the French Experimental Flight Center.

Key features relevant to SAF3000 VCS technology are:

- √ Proven COTS hardware,
- √ Configuration friendliness,
- √ Scalability,
- √ Modularity,
- √ High Reliability and Availability.

SAF 3000: Digital VCS and VoIP technology apply to ATC safety

Technical Specifications

Multi Function Terminal (MFT)

Easily implemented in a working position, the MFT is a color touch panel. The MFT provides an effective and fast access to the Radio, Telephone and Intercom means through intuitive interface and configurable key function.

Main characteristics

- LCD TFT 6"4, 12" or 15" color screen,
- Redundant ETHERNET connection boards,
- Simultaneous Radio, Telephone and Intercom communications
- Separate adjustment of audio source volume (radio, telephone and intercom)
- Selection of operating mode:
 - Headset,
 - Handset
 - Loud speakers.
- Audio mix Capability customized for any communication type from/to microphone, headset, handset, loudspeaker.





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SAF 3000: Dedicated to ATC safety

Radio

The Radio switch can be interfaced with all types of Transmitters & Receivers, mono or multi frequencies, either installed locally or on remote sites and connected through leased lines or through public switched network.



Main Radio Characteristics:

- Distributed digital architecture system,
- Passive TDM redundant bus,
- Redundant power supply,
- Upgradeable to 240 operators terminals and 480 radio channels by use of several interconnected switches,
- Secured Red/Black architecture for military applications,
- Connection with operator terminals based on VoIP technology through redundant ETHERNET access,
- Capability to manage 8 frequencies simultaneously on each operator position in the following modes:
 - Monitoring,
 - Rx,
 - Tx,
 - Cross coupling
- Characteristics of the Radio interfaces:
 - ✓ Out of band and in band signaling,
 - ✓ Mono/multi frequencies control,
 - ✓ Have Quick management,
 - ✓ Multi-site Management:
 - BSS, Climax, voting
 - Remote radio site control
 - ✓ Management of clear or cipher mode

Telephone / Intercom

Based on the latest digital technologies the SAF 3000 VCS offers all the standard telephone interfaces

- E1, ISDN digital BRI and PRI access,
- Standard analog Interfaces such as FXO, E&M, MFC-R2 Eurocontrol...

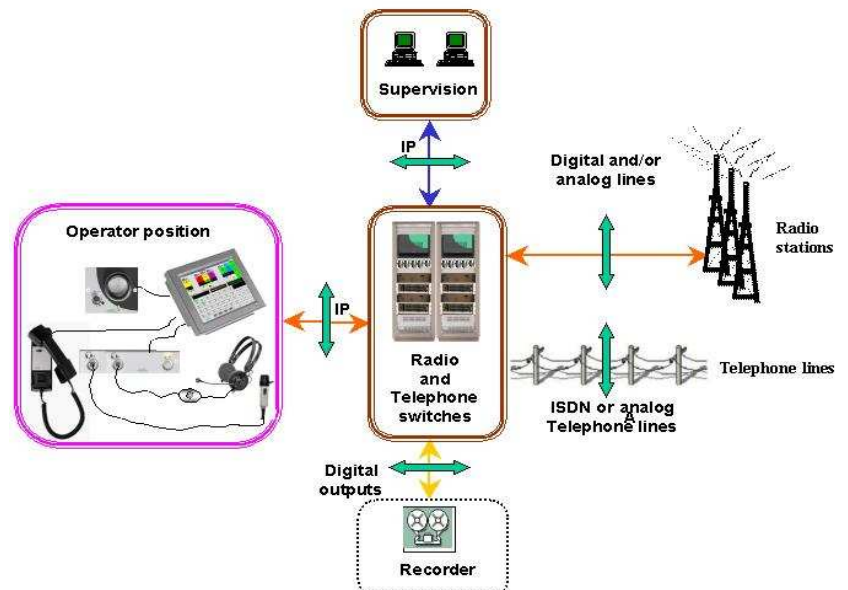
Other interfaces provided on request. Redundant mode by additional IPPBX.

Telephones Characteristics

- Roles allocations functionality,
- Direct access Keys,
- Call identification,
- Break in, Hold, Transfer, Conference,
- Priority,

Intercom Characteristics

- Point-to-point Communications,
- Intercom loops capabilities are software manageable about:
 - Number of participants on a same intercom loop
 - Number of simultaneous active loops per operator



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