

Liberty-STAR™

Voice communication control system

Maximum reliability, exceptional versatility and unparalleled flexibility have long placed the Liberty-STAR VCCS in a category all its own. The Liberty-STAR voice communication control system (VCCS) is the ideal combination of dependability and functionality. Specifically engineered to meet the unique needs of both civil and military air traffic control applications, Liberty-STAR can provide greater than 99.9999% availability while offering robust, easy-to-configure features; commercial-off-the-shelf (COTS) hardware; and open-source software. Whether you manage a tower, area control centre, flight service station, or have a mobile requirement, the Liberty-STAR VCCS is designed for you.

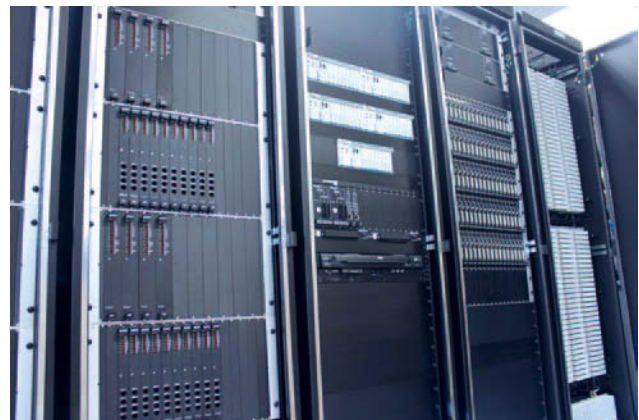
Key features

Scalable and modular

The ED-137 and International Civil Aviation Organization (ICAO) compliant Liberty-STAR VCCS is fully scalable and will support a variety of system sizes ranging from a small single-operator application to large communication centres encompassing hundreds of operator positions—all utilising the same software. However, as future operational requirements increase, the system's scalable modularity allows for cost-effective, trouble-free expansion.

Air traffic control solution for any application

With its innovative, open-architecture, the Liberty-STAR VCCS can integrate redundancy schemes on several levels. In the event of an internal fault, the system is engineered to recover without service interruption and offers exceptionally high availability to meet any critical communications requirement. The Liberty-STAR VCCS software offers an extensive array of analytical and diagnostic subroutines to facilitate troubleshooting. Operational status is indicated on faceplate LEDs, and diagnostic messages are reported instantly on the system's maintenance position for easy analysis by operators, controllers, supervisors and maintenance technicians.



Liberty-STAR™ at a glance

- Best Signal Selection (BSS)
- Dynamic role assignments
- Instant Recall Recorder (IRR)
- Listen on hold
- Main/standby select
- Operation-based user roles
- PTT confirm & lockout
- Radio retransmission
- Statistics
- Supervisor monitoring



Benefits

Universal solution

Supporting full duplex and simplex transmissions, advanced patching, system-to-system networking and more, Liberty-STAR is in active operation in more than 80 countries. The system is fully redundant, highly available, highly scalable, and supports networking between ATM centres.

Open to the future

Built on open digital interface standards, Liberty-STAR is future-ready and offers easy migration towards ISDN, ATM, VoIP and ED137. The system can run on a standard PC alongside third-party applications such as audio recording/playback, email, and report generation.

Technical specifications

Physical dimensions	19" wide x 16" (9RU) high x 18" deep (expandability is subject to configuration)
Operating temperature	0°C to +50°C (excludes touch-entry device, computers and acoustic devices which are determined by their respective manufacturers)
Storage temperature	-40°C to +55°C (excludes touch-entry device, computers and acoustic devices which are determined by their respective manufacturers)
Software-controlled interfaces provided for	Dynamic microphones, unamplified Electret microphones, carbon and carbon-compatible microphones
Memory protection	Settings preserved in non-volatile memory
SMART POSITION™ (management system)	Supervisor session (map definition and upload), Maintenance session (diagnostics, HW definition, SW upload), Administration session (access control, user definition), Reconfiguration session (circuit assignment HW, and map editing/upload), TED session (touch-entry device, communication access)
Redundant power supplies	Accept simultaneous AC power from Feed A, the main power source, and Feed B, the critical power bus, with zero delay load sharing in the event of failure
Interfaces include	2- and 4-wire analog audio from linebased and radio sources; T1 and E1 digital audio (on wire or fiber); VoIP (Voice over IP)

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