



AVBS

Automated VOLMET Broadcast System

A World Class, Highly Scalable & Reliable VOLMET Solution.

AVBS: The trusted VOLMET Solution.

MTECH AVBS (Automatic VOLMET Broadcast System) is a comprehensive VOLMET solution for ANSP's and other navigation area operators who require a high performance, high reliability, ICAO and WMO compliant broadcast system.

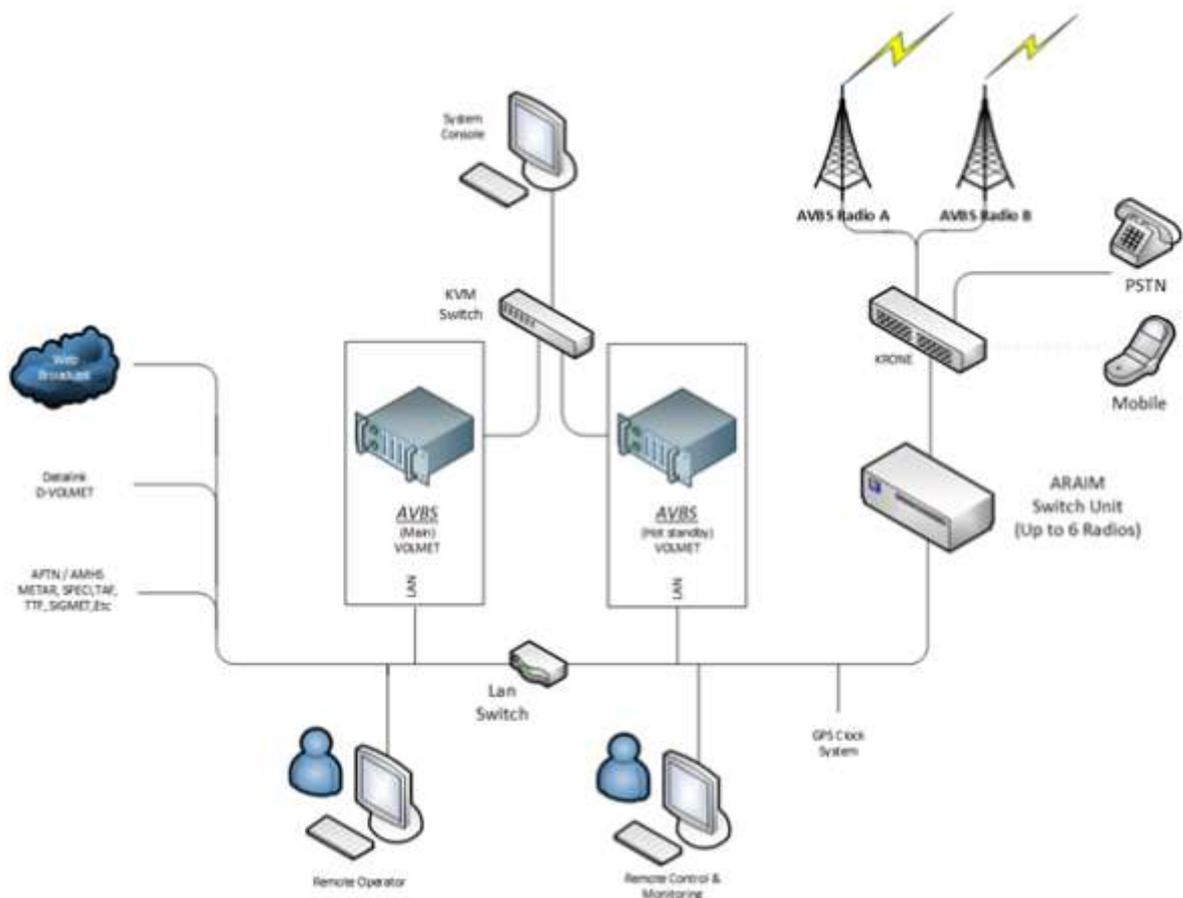
The system has been designed to allow for maximum compatibility with existing systems and delivers the complete range of data and broadcast outputs from simple web pages right through to full Datalink capability. The system can be tailored to meet differing operational requirements, levels of redundancy and internal workflows. Software interfaces can be customized to suit individual operators needs whilst still harnessing the power of the underlying infrastructure. To ensure that the systems operation can fit in with your work-flows the screen layouts, message formats, data availability, message handling, procedure logging and security measures all can be customized to your requirements. Further expanding the system is the optional Datalink functionality digitally connecting pilots on ACARS, ATIS systems or other ATC systems.

The AVBS system is built on an open system design approach. The client/server architecture allows for a virtual limitless number of additional workstations and servers. The hardware is predominantly COTS with the exception of the MTECH Systems Manufactured ARAIM 6 Channel radio interface and control switch.

The system utilizes the latest in operating system, database, networking and software technologies. All interfaces use industry standard messages and protocols. As such this allows for maximum compatibility with your existing systems and the capability to expand the system easily in the future. The AVBS system is fully scalable as the flexible architecture provides for seamless integration with existing systems and unlimited potentials for future upgrades and extensions.

Operation

The backbone of the system is the data collection and validation service. As the data is collected from many different input sources it is validated against relevant standards and guidelines such as that of ICAO and WMO. Once verified the collected data is prepared for end user presentation and is stored in the SQL database. At the request of a user (or the system if running in automatic mode) the data is presented in a client display where an expert end user is able to compile, edit, check and publish the VOLMET broadcast message.



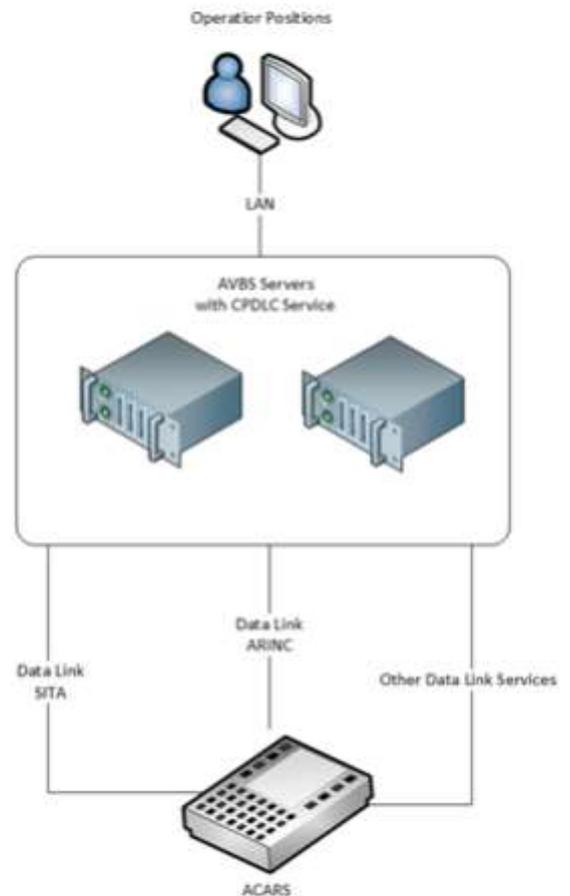
Once a VOLMET message has been submitted to the system it is automatically processed to generate products such as TTS synthesized speech, recorded voice audio files, web pages and digital VOLMETS (D-VOLMET). Once generated the products are sent through the various connected output functions, most typically HF radios. The system offers the flexibility of TTS (Text to Speech Engine) , pre-recorded voice samples or manual voice recording. The TTS utilizes a highly customized voice lexicon which allows for clarity of pronunciation of industry specific terms and for the correct delivery of alpha-numeric characters and units of measure.

AVBS Standard Features:

- Main / Standby Server Capability
- SQL Database
- Automatic Data Check and Processing
- Standards compliant VOLMET service (ICAO / WMO)
- TTS, Pre-Recorded or Natural Human Voice.
- Automatic or Manual Data Input
- Full playback and verification facilities inbuilt
- Serial or TCP-IP Interfaces for AFTN/AMHS.
- Customizable Message Templates
- ARAIM Radio Interface Module (6 Channels)
- Internet / Web Capability
- PTT functionality
- User Level Access Control
- Error alerts and logs.
- High reliability 24/7/365 system
- Forensic Logging and Archive
- SITA and ARINC Interface
- SNMP System Management
- RCMS / Maintenance Capability

Optional System Upgrades:

- Software GUI Modifications
- 3rd party AWOS Integration
- 3rd party ATIS Integration
- UPS Hardware (Uninterrupted Power Supply)
- Transmitter / Radio equipment
- GPS Time Server
- PSTN / GSM Integration
- Ethernet LAN
- Server Racking
- Additional Language Support



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