



## **ATIS/VOLMET Complete**

**ATIS/VOLMET/DATALINK and Clearance**

A Complete & Flexible Solution to Work Your Way and Beyond



**MTECH Systems**

# ATIS/VOLMET Complete

## Your ATIS & VOLMET Solution

MTECH ALTIS/VOLMET COMPLETE is a comprehensive solution for medium to large domestic, military and major international airports with high air traffic volumes. The system complies with ICAO and WMO recommendations with emphasis on service reliability and performance.

The system has been designed with maximum flexibility in mind to ensure that a COMPLETE ATIS/VOLMET solution exactly meets your needs. A system can be tailored with any number of combinations of ATIS or VOLMET Systems to cover your operational requirements. 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.

Utilizing it's built-in Data-Link functions MTECH ATIS/VOLMET COMPLETE can provide additional options such as Departure Clearance. The MTECH ATIS/VOLMET COMPLETE can also act as a Data Link gateway to other voice ATIS systems or flight planning systems.

### Operation

Incoming data is validated automatically using the inbuilt standards compliant filters. IF any invalid data is received prior to message composition both audio and visual alert will be triggered allowing the operator to adjust their message prior to broadcasting. Any extra data available to the operator at the time of message composition can be entered manually.

As part of the voice broadcasting functionality the system decodes incoming weather and other data as it becomes available and converts it automatically into high quality voice broadcast. Meteorological data may come from sources such as:

- METAR,
- SPECI,
- METREP,
- SNOWTAM,
- TAF
- SIGMET.
- Etc...

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.





# ATIS/VOLMET Complete

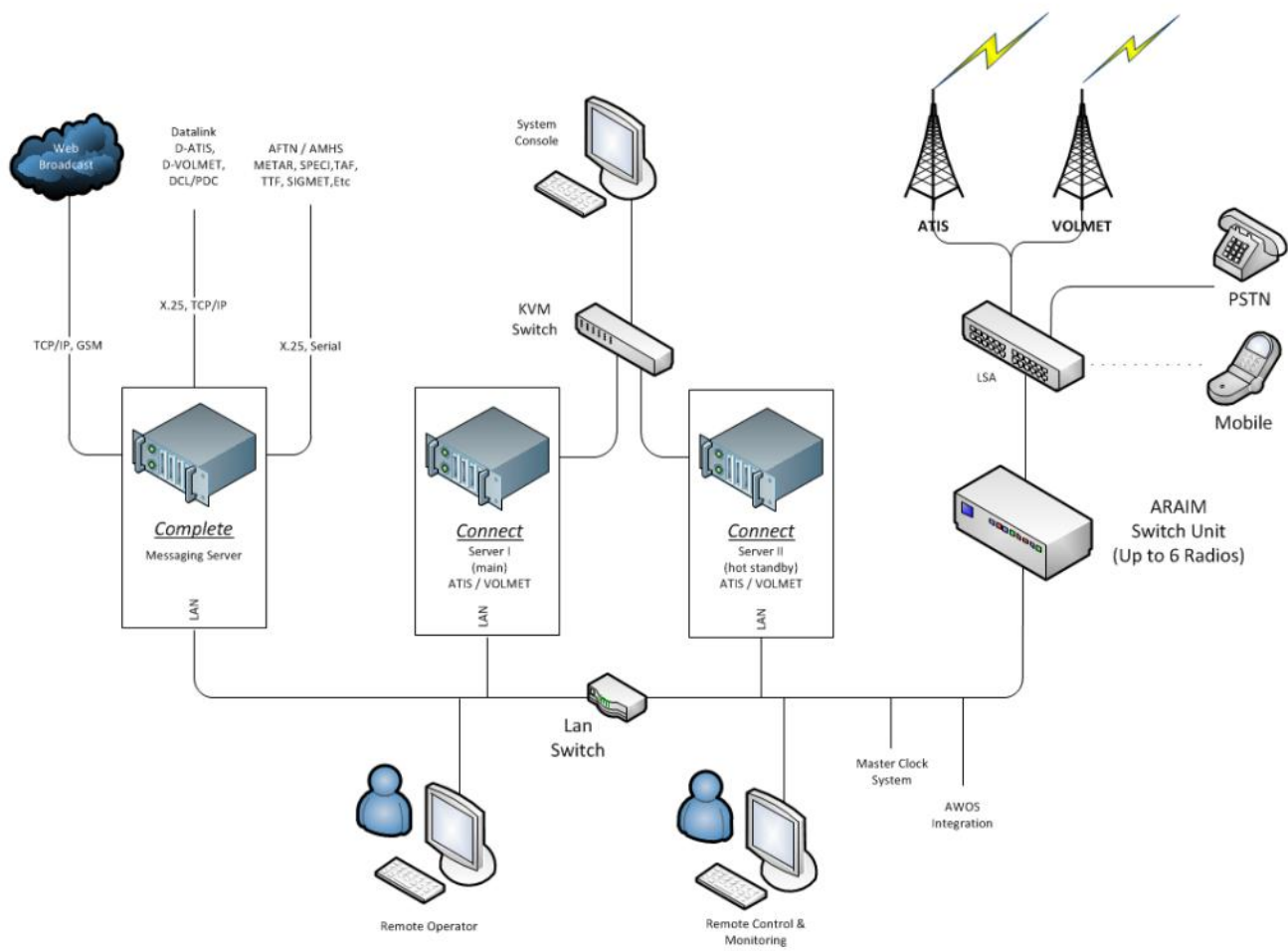
## Modular and Flexible

## System architecture

MTECH ATIS/VOLMET Complete 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.





### ***DataLink Integration Benefits***

- *Reducing workload of air crew.*
- *SDP network independent.*
- *Can be integrated with existing FDPS or standalone operation.*
- *Automatic clearances capable.*
- *Significant time savings over voice clearance.*
- *Error reduction.*
- *Reduction in Radio Frequency Congestion.*

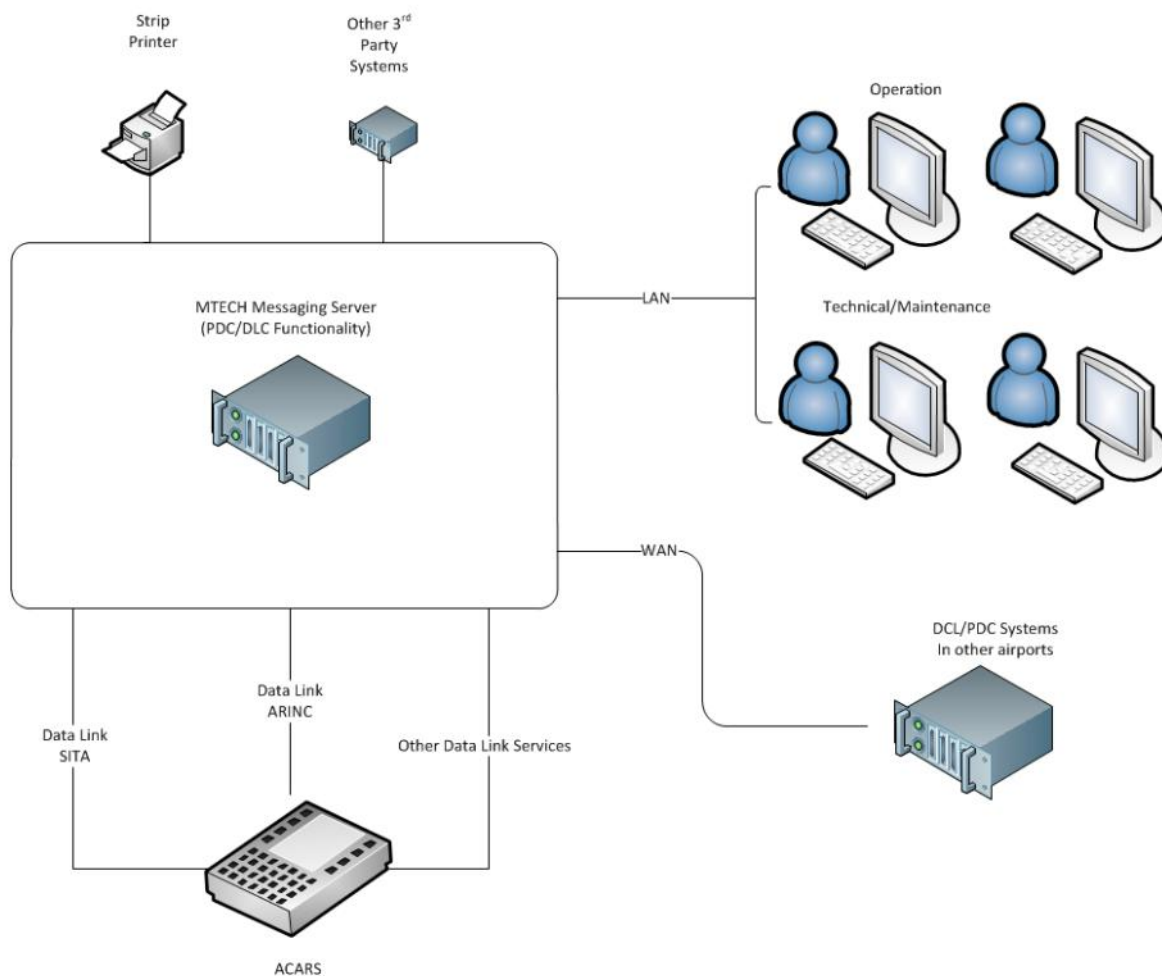
# ATIS/VOLMET Complete

## Data Link Integration

The ATIS/VOLMET *Complete* also features Data Link integration that greatly enhances the possible applications including D-ATIS/D-VOLMET, DCL and PDC functionalities.

- D-ATIS/D-VOLMET, capability allows pilots to retrieve information via DataLink such as local weather or departure information via DataLink.
- D-PDC capability allows the transmission of Pre-Departure Clearance via Data Link usually from an airlines information system allowing for a greater efficiency of operation of an air=lines fleet.
- DCL capability allows the transmission of data through the Automated DataLink service for delivery of departure clearance information.

### Messaging Server — DCL/PDC Functional Diagram





### Benefits

- Around twenty seconds saved per request via DCL compare to normal voice procedure
- Reduction of approximated 2 errors or misunderstandings per day.
- Reduced noise load in TWR
- Cost-benefit effective system.

## Specifications

### Included Features

- Automatic Data Decode and Validation.
- Flexible, modular, Scalable and Open Architecture.
- Supports full VOLMET services and configurations.
- TTS, Pre-Recorded or Natural Human Voice.
- Manual adjustment of any information or variable.
- Full playback and verification facilities inbuilt
- AFTN, Serial or Ethernet Interfaces for AFTN/AMHS.
- Customizable Templates
- PTT functionality at the voice announcer
- ICAO and WMO compliant
- Standalone and main/hot standby server configurations available.
- Password protection for all user levels.
- Error alerts and logs.
- High reliability system design
- Supports all Data Link service providers including SITA and ARINC

### Options

- Multiple languages
- Remote client and maintenance positions
- Uninterrupted Power Supply
- Radio equipment
- ARAIM Radio Interface Module (6 Radio Channels)
- GPS Clock
- Internet and Mobile Integration
- Can broadcast six different messages at one time
- Forensic Logging and Archive
- PSTN interface
- Input controlled and archived in Database
- External alarm capability
- SNMP Traps Available for key system functions

### Data Link integration Features

- Latest generation MTECH Messaging Server Capabilities
- Single Administration Interface
- ED89A & ED85A compliant
- Integration with third party ATIS if required.
- Data Link gateway capability.
- MTECH Systems AWOS Database Integration Option
- SQL Database backend allows for complex report generation.
- Redundant Server Configuration
- Full X.25 Compatibility

