

## ACAMS Digital ATIS-VOLMET

### General

The ACAMS ATIS-VOLMET product is a compact PC based system providing a user friendly and cost effective Digital ATIS-VOLMET solution.

The first ACAMS ATIS-VOLMET was developed and put into operation in 1999. The product has since then evolved to comprise a large range of system features.

ACAMS COTS Software and Hardware solutions make it easy to customise the product to small or large airports or military airfields.

The ACAMS ATIS-VOLMET may also be supplied as an integral module of a comprehensive ACAMS integrated tower system.

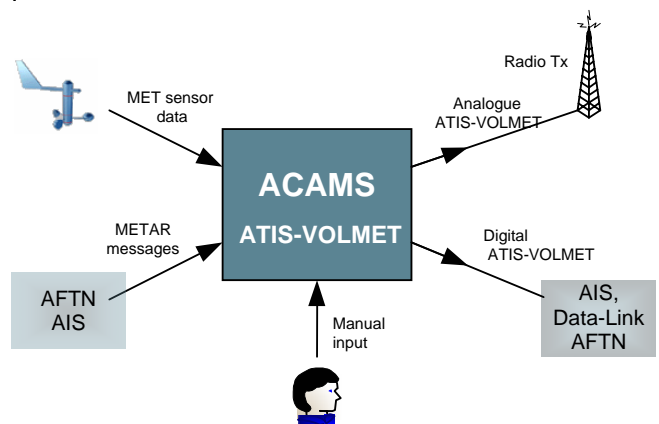
### Functional Description

The ACAMS ATIS-VOLMET module provides the user with the facility to automatically generate ATIS/VOLMET formatted voice and data messages. The module is equipped with a user friendly interface allowing the message to be composed with a minimum of operator input.

Parameters that are monitored by the system are stored in the ACAMS real-time database and automatically extracted and inserted into the ATIS/VOLMET message. Other standard information is entered by simply entering the parameter values and the system will generate the complete message automatically. It is also possible to add a free text message when required.

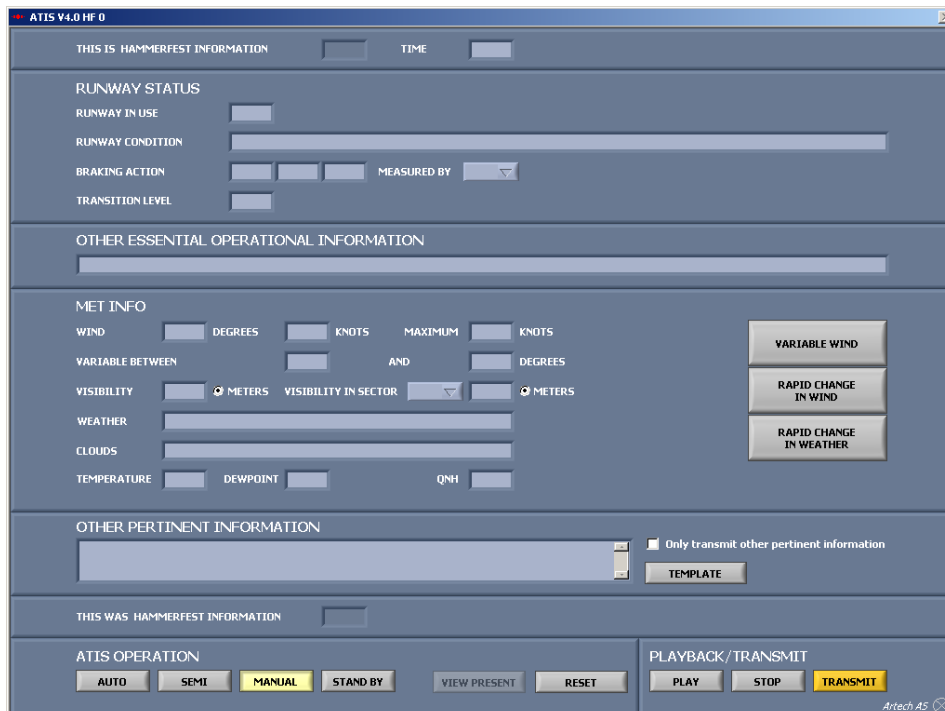
When the message is activated the client program generates the complete text message and transfers this to the program.

The server program generates the analogue and digital format ATIS-VOLMET messages. COTS speech synthesiser software is used thereby allowing the latest available speech generator technology to be utilised. The analogue audio output of the server is fed to the VHF/UHF ATIS-VOLMET radio transmitter. The digital data output is fed to the AFTN, Aeronautical Information Service or CPDLC Datalink (e.g ARINC/SITA) as appropriate.



### Features

- ✓ Analogue and digital outputs
- ✓ Automatic data import from meteorological sensors
- ✓ Automatic data import from METAR messages
- ✓ Multiple operator terminals
- ✓ Dualised architecture available



Example HMI

# ACAMS ATIS-VOLMET Module

## KEY ATIS-VOLMET FEATURES

### General Features

- Automatic text to digitized human voice conversion
- User friendly HMI
- COTS PC based system
  - Windows 2000 Operating System
  - LabVIEW Functional and HMI software
- Selectable Operation Modes
  - Automatic
  - Semi Automatic
  - Manual
- Selectable update rate
- Automatic validation of data
- Playback feature for "off air" manual verification.
- Input
  - Manual typing, standard text string templates and free text
  - Data from MET sensors
  - Data from AFTN, AIS and METAR services
- Output
  - Voice
  - Data to AIS
  - Data / Text to AFTN
  - Telephone access

### Management system

- Individual Aerodrome Configuration settings
- User definable Voice adaptations
- Voice type
- Volume
- Speed
- Automatic Transition Level calculation
- ATIS-VOLMET Log Player
  - Logging of all Transmitted messages
  - Logging of all data input (METAR/AIS)
  - Review and Replay of logged messages and Met input

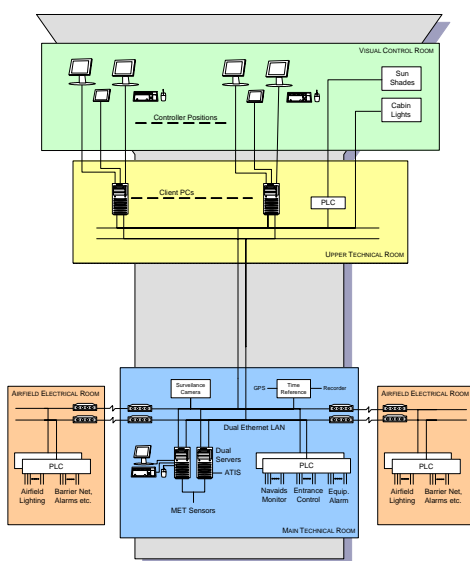
### Options:

- Voice Modem for Telephone access
- Data link via ARINC/SITA or similar
- RAID1 discs with mirroring
- Dual PC operation (Hot-Standby)
- Industrial PC located in technical room (Peripherals in VCR)
- Multiple operator positions (Local & Remote)
- GPS Time Synchronisation

## OTHER ACAMS FEATURES

### ACAMS Integrated TWR System

The ACAMS ATIS-VOLMET module can be supplied as a stand alone system or as an integrated module in an ACAMS integrated tower solution. The system may be easily expanded with additional hardware and software to provide functionality including:



*ACAMS Integrated TWR System  
Typical System Architecture*

- ✓ Airfield Lighting Control
- ✓ Meteorological Information Display
- ✓ Publications
- ✓ Maps
- ✓ Directories
- ✓ AFTN Display
- ✓ Direction Finder
- ✓ Flight Data
- ✓ Time Synchronisation & Display
- ✓ Tower Cabin Internal Lighting Control
- ✓ Sun Shade Control
- ✓ Video Surveillance
- ✓ Entrance Control
- ✓ Notice Board
- ✓ Internal Messaging
- ✓ External Message Display
- ✓ Conversion Calculator
- ✓ Data Logging
- ✓ External Alarm

Please refer to the ACAMS web site [www.acams.net](http://www.acams.net) for further information.