



Mesotech's Airport Weather Advisor® (AWA) is a complete monitoring and reporting system for airports of any size. It combines the required weather monitoring equipment and sensors with a proven software package that accurately monitors all functions of weather observation: wind speed/direction, temperature, relative humidity, dew point, barometric pressure, sky condition, precipitation, thunderstorm, present weather, runway visual range, and ATIS.

## The AWA System

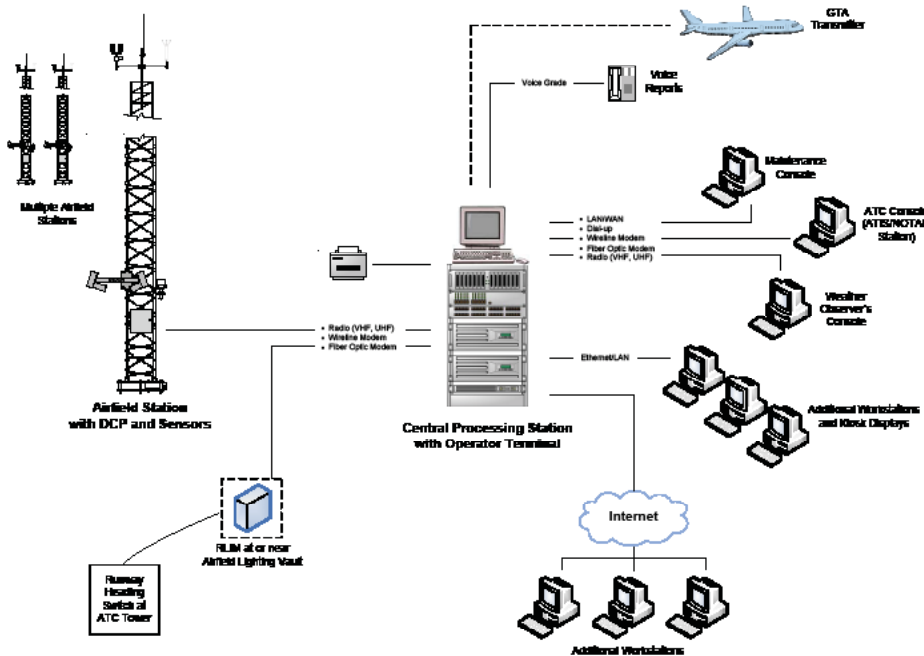
The AWA system is comprised of three main hardware components: sensors, a data collection platform (DCP), and a central processing station (CPS). Other components, such as additional workstations, add to the system's overall productivity and efficiency.

The foundation architecture of AWA is fault tolerant, and it supports all communications standards. The AWA Web application provides a secure method of viewing live data and performing maintenance activities directly on sensors, airfield stations, and servers over the Internet or Virtual Private Network.

## The AWA Software

Mesotech's eighth-generation AWA software – available as both a Web application and a client-server network application – is the result of over 20 years of field experience with hundreds of airport installations. Its modular design allows you to select only the components you need, and you can expand your system easily and economically at any time. The software's Virtual Station Technology™ (VST) feature allows you to assemble data sources from different aerodrome locations into one complete reporting station.

The AWA software is intuitive, allowing for comfortable operation with minimal training. An integrated online help provides step-by-step instructions for all functions.



## The AWA Advantage

AWA offers a comprehensive suite of services and functionality, including the following.

### Overview

- Complete system – sensors to workstations
- Measures all significant weather parameters
- Easy to install, operate, and maintain
- Unlimited number of sensors, airfield stations, runways, workstations, and displays
- Customizable user screens
- Strip-charting of real-time data

### Reporting

- Fully automated reporting: SYNOP, SPECI, and METAR with supplemental and additional remarks
- Editing and augmentation of automated reports supported with a robust intelligent report editor
- Voiced reports by radio and telephone
- Report distribution through multiple data formats

### Communication

- Internet access for remote viewing and maintenance
- Supports a wide range of communications options

- Dual bus communications for redundant, hot-standby central processing
- Automatic self-testing and reporting of electronic components and data quality
- Dynamic reconfiguration of airfield sensors for fully fault-tolerant operation

### Compliance

- Modular design – meets the features and functionality of all levels of AWOS and more
- FAA-certified for AWOS
- Full compliance with ICAO, WMO, and FMH-1 (USA)
- Meets or exceeds FAA requirements

## Technical Specifications

### Airfield Stations

Sensors:	Unlimited number of units, types and technology
Data Collection:	AWA DCP or existing airfield data collection platform
Central processing station:	Single or redundant backup with hot-standby, RAID disks, and network clusters
Computer system requirements:	Windows compatible 2008 server, Windows 7
Data processing compliance:	Certified compliant with ICAO, WMO, USA Federal Aviation Administration standards
Security:	Multi-level passwords and users, DOD qualified design
Remote maintenance monitoring:	Integrated RMM from sensors through all workstations and through Web access
Airport configuration:	Programmable by user

Output reports:	User defined METAR and SPECI with supplementary SYNOP, AFTN, local and others as options
SPECI parameters:	User defined
Report editing:	Via intelligent editor with built-in syntax verification
Voice reports:	Text-to-speech processing, multiple languages, human voice, free-form remarks, ATIS capability. Simultaneous outputs
Voice outputs:	Two or more telephone lines (auto-answer), RF transmitters, ATIS interface, and Nav aids
Logging and printing:	Automatic and official reports, users, sensor data and RMM alerts. Intervals selected by user, one min. to monthly. SQL database
User screens:	<ul style="list-style-type: none"><li>• Dual-runway ATC display</li><li>• One Minute Observations display</li><li>• Custom parameters</li><li>• Strip-charting of real-time data</li><li>• Viewing of online weather data from other sources</li></ul>

Local area network:	TCP/IP, Ethernet, fiber optic, multipoint wireline, RF
Wide area network:	TCP/IP, Remote Access Service
Workstations:	Unlimited number
Display stations:	Unlimited number
RMM stations:	Unlimited number
Maintenance workstations:	Unlimited number
Workstation types:	Dedicated terminal Networked PC Access via the Internet Kiosk type display
Report distribution:	Unlimited number of ports
Alarms:	User set visual and audible alarms
Data presentation:	All active runways, raw and processed data from all sensors

