AUTOMATED WEATHER OBSERVATION SYSTEM AWOS7

AWOS7 is the fourth generation of Automated Weather Observation Systems from Saab Combitech, with an outstanding concept for flexibility, integration, and distribution of weather information.

The freedom of choice
The AWOS7 system is web-based in order to utilize all of the advantages from both operational and technical aspects. If the customer prefers, the same system can be operated through a client/server solution, or utilize both of the possibilities simultaneously.

This system solution offers you superior flexibility and freedom of choice, both in long and short terms.

Reliable and future-proof
The system is on the forefront of AWOS systems on the market in terms of meeting the requirements of the European Parliament and Council regulation on the interoperability of the European Air Traffic Management network. Essential requisites are safety and principles governing the logical architecture and construction of systems. AWOS7 fulfils these requirements, giving a reliable, flexible and future-proof system.

Meeting the standards
AWOS7 is developed in accordance with ICAO, EASA, Eurocontrol and WMO regulations. It follows the software development guidelines from Radio Technical Commission for Aeronautics, European Organisation for Civil Aviation Equipment, and Eurocontrol Safety Regulatory Requirements.

The system is developed for Windows 7/10 operating system which gives a quick and stable system that can utilize new technology in the best way. Together with .Net Framework, Silverlight and Windows Server 2008/2012 a flexible system solution is obtained. AWOS7 can be adapted to meet the requirements of every airport, from the small local system to a complex nationwide AWOS.

One licence, unlimited clients
You only need one server licence and an unlimited number of web clients can be used without further costs. This means, for example, a higher profitability for the airport when expanding your operations, and a more profitable solution for distributing weather information to third parties.
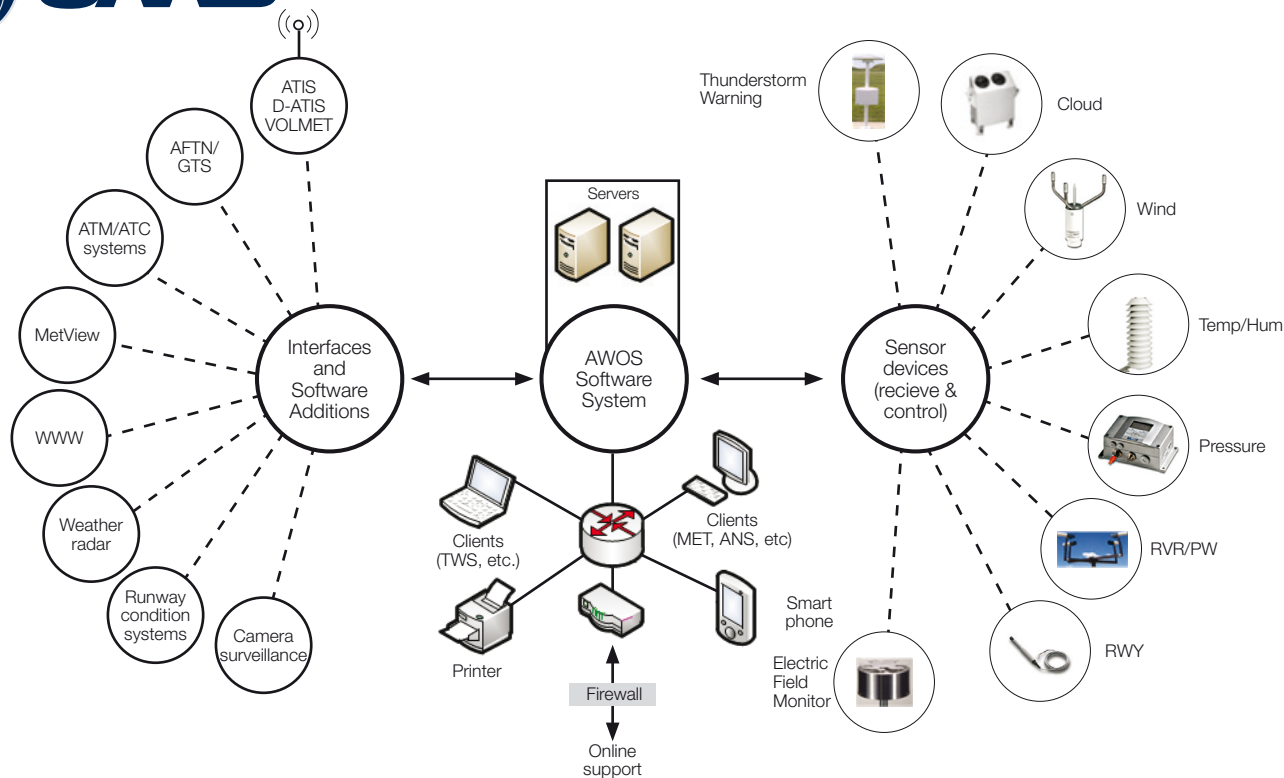
Reduced environmental impact through integration
The combination of a web-based system and the possibility of integrating several functions such as ATIS, D-ATIS, VOLMET, ATC-display Thunderstorm Warning, Braking Action, etc, also affects the environment positively. Due to the integration possibilities in AWOS7 a reduced quantity of hardware is needed, when compared to traditional systems, which in turn reduces the energy consumption and provides increased availability.

AWOS7 also simplifies the installation and commissioning and offers significantly lower maintenance and life cycle costs.

![SAAB Technologies logo]

SAAB

Diagram labels:

ATIS D-ATIS VOLMET • AFTN/ GTS • ATM/ATC systems • MetView • WWW • Weather radar • Runway condition systems • Camera surveillance — **Interfaces and Software Additions**

Servers — **AWOS Software System**

Clients (TWS, etc.) • Clients (MET, ANS, etc) • Printer • Smart phone • Electric Field Monitor • Firewall • Online support

Thunderstorm Warning • Cloud • Wind • Temp/Hum • Pressure • RVR/PW • RWY — **Sensor devices (recieve & control)**

FEATURE HIGHLIGHTS

- Multiple runway support
- Redundant sensor systems
- Trend information integration
- Single or redundant servers
- Ability to integrate ATIS, D-ATIS, VOLMET, DCL, Runway Condition Systems, Observation Cameras, Satellite-, Radar- and Forecast Images, Runway Light Intensity Systems
- Full logging, data export and reporting
- Very reliable, scalable system solutions
- Unlimited number of clients without extra license cost
- User friendly with customizable User Interface

HARDWARE

- Standard PC's or redundant server systems
- Displays according to operational needs
- Single or dual Ethernet LAN

DEVELOPMENT & QUALITY ASSURANCE

- Agile software development (Scrum, Test driven, etc.)
- Based on the .NET Framework
- Windows 7/10 and Windows Server 2008/2012

Specifications subject to change without notice

- Software development and quality assurance according to RTCA 278/EUROCAE ED 109, EUROCONTROL ESARR 6, ISO 9001-2005 + TickIT, ISO 14001, ISO 27001
- HMI designed according to EUROCONTROL standards

METEOROLOGICAL SENSORS

- Wind speed/direction (also Ultrasonic)
- Barometric Pressure
- Temperature
- Dew Point
- Relative Humidity
- Cloud Base and Sky Condition
- RVR & MOR
- Present Weather
- Transition Altitude
- Runway sensors
- Lightning & Thunderstorm Detection
- Electric Field Sensors
- Runway Friction/Braking Action Data

I/O DATA

- AFTN/NATN
- GTS/MOTNE

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- LAN/WAN
- ATIS/D-ATIS/DCL/VOLMET
- CCTV/ITV
- ATC systems (TopSky etc.)
- Internet/Intranet
- Camera surveillance

SYSTEM MONITORING

- Built-In-Test (BIT) monitoring and logging of system, sensors, etc.

ATIS/D-ATIS/VOLMET

- Complete functionality can be delivered either as an integrated software module, or as a stand alone system with software and hardware.

SUPPLEMENTARY PRODUCTS

- MetView (ATC display)
- ThunderBall (Thunderstorm warning)
- FRENSOR (Runway sensor)
- IRIS (Weather & AIS information)
- Remote tower/RTC integration
- Extensive experience in third party products integration

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