

SAWAS

Serbian Airports Weather Acquisition System

SAWAS is a software package for ATC which enables meteorological data acquisition and monitoring, as well as generation and distribution of meteorological reports. SAWAS is a highly reliable web based software solution that follows standards and recommendations of international organizations WMO and ICAO.

Also, Serbia and Montenegro Air Traffic Services SMATSA Ilc uses SAWAS software for more than 10 years, thus initiating a permanent improvement of the software and its features.



WSC client application

Key features of SAWAS software:

- **flexibility for specific customer requirements** and future changes in international standards and recommendations;
- openness for **different hardware manufacturers** and various generations of measuring equipment (support for different meteo stations such as VAISALA MIDAS IV and MICROSTEP AWS200, others on request);
- comprehensive event and error **logging system**;
- **redundancy** in data archives and immediate automatic redirection to available servers;
- **web based clients** (only one installation per airport, web clients are independent of hardware and operating system).

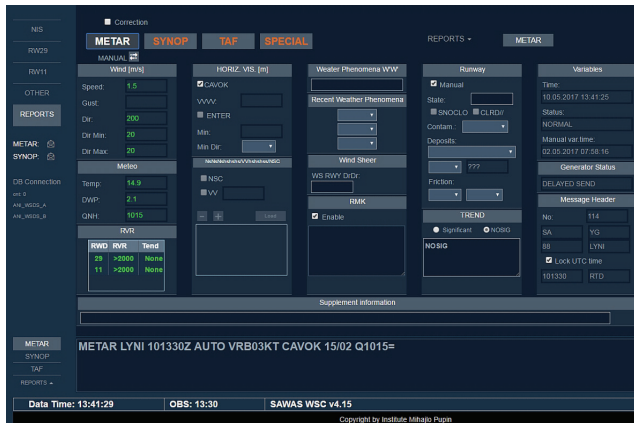
SAWAS package consists of the following subsystems:

- Weather Station Data Server - WSDS;
- Weather Station Client - WSC;
- Weather Station Monitor - WSM ;
- Weather Station Archive - WSA.

WSDS server applications are core of SAWAS system responsible of:

- data acquisition from different sources;
- calculation of derived meteorological parameters;
- calculation of necessary statistical values;
- telegram logging;
- archiving in database;
- alarming;

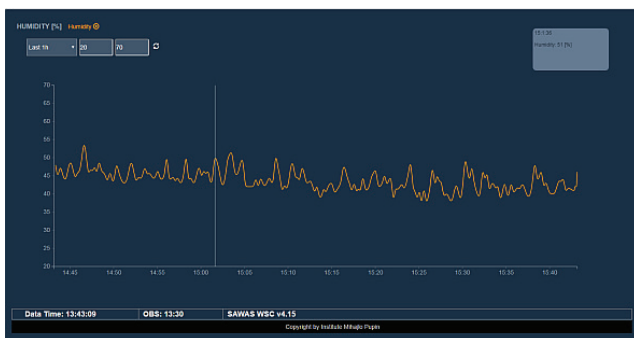
- semiautomatic and automatic creation of METAR reports;
- semiautomatic creation of SYNOP reports;
- TAF, GAMET, AIRMET, SIGMET, WRNG and ADWRNG reports creation;
- communication with WSC and WSM clients;
- communication with third party software (such as ATIS system software).



WSC - METAR generator

WSC is a client program intended for airport's meteorologist with the following functions:

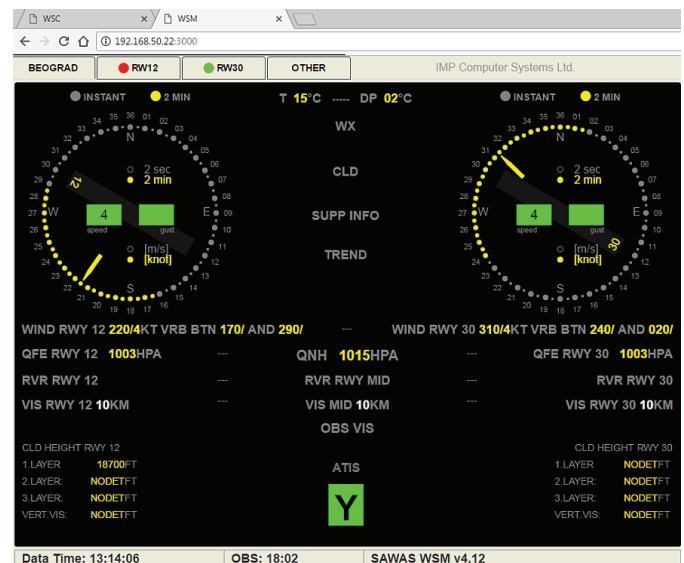
- web based clients (only html5 and javascript);
- display of meteorological parameters, alarms, events and reports;
- UI for meteorological report creation (METAR, SYNOP, TAF, GAMET, AIRMET, SIGMET, WRNG, ADWRNG, OTHER);
- manual entrance for non-automatic or observed parameters.



WSC - graphic display

WSM is specially designed web client software for air traffic controllers. It shows coded meteorological data for both or for the chosen touchdown zone. WSM key features:

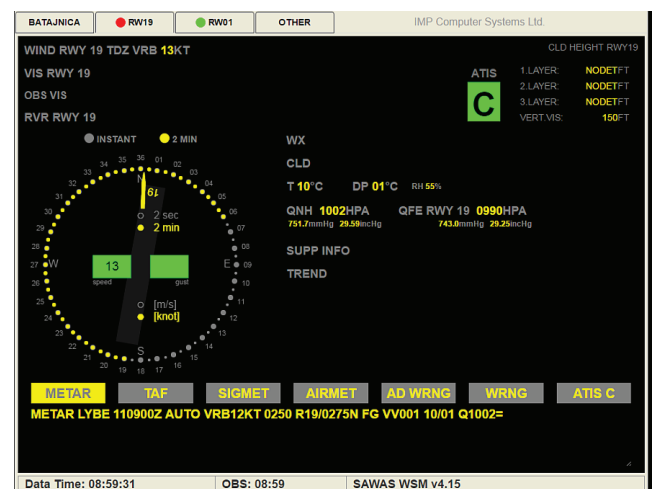
- web based clients (only html5 and javascript);
- platform independent (Windows7/8, Xp, Linux Ubuntu);
- works with all available commercial browsers (IE, Chrome, Mozilla);
- screen size and resolution independent;
- no client side installations required.



WSM client main display

WSA is web based application for data archive search.

SAWAS software package has been implemented on the following airports: Belgrade's international airport "Nikola Tesla", Batajnica, Niš, Podgorica, Tivat, Vršac, Kraljevo, Užice.



WSM client