

SRCAWS

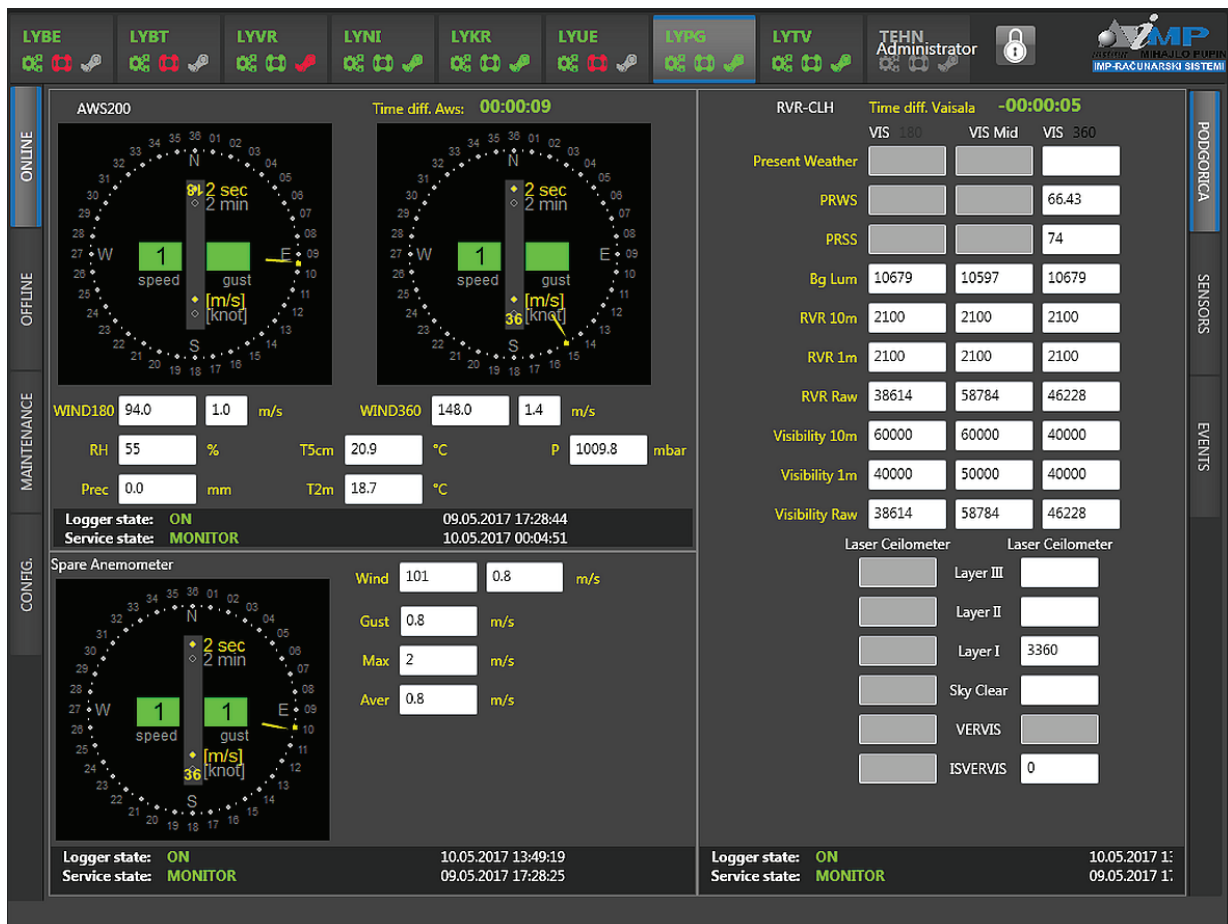
Serbian Remote Control of Airport Weather Station

SRCAWS is specialized software package for continuous supervision and automatic statistical reporting of meteorological sensors and automatic weather stations.

The safety of air traffic is highly dependent on accurate and timely information about meteorological parameters at the airport. Reliable and accurate operation of meteorological equipment, in accordance with strict international standards, as well as timely alarm of failure or improper operation of meteorological equipment, directly contributes to the

overall availability of airports for the normal air traffic operation.

Airports in Serbia (Vršac, Batajnica, Kraljevo, Užice, Niš) and airports in Montenegro (Tivat and Podgorica) are furnished with MICROSTEP AWS200 and VAISALA MIDAS IV automatic meteorological stations. To ensure better monitoring and technical maintenance of automatic weather stations and relevant sensors, IMP Computer Systems has created a software package SRCAWS. Since year 2009 SRCAWS has been used by Serbia and Montenegro Air Traffic Services SMATSA Ilc.



User application in regional flight control center - Belgrade's headquarters

SRCAWS provides current information on weather conditions at each airport for the local maintenance staff, as well as for maintenance department in the Belgrade headquarters. SRCAWS detects any breaks in the operation of the sensor and possible out of range measurements. Also, the software registers the status of the automatic weather stations and takes their one-day archives of performed measurements.

The information collected locally are kept in the local airport server database and they are synchronized with central server database in Belgrade. These data are a precious source of information for assessing the current state and reliability of the meteorological acquisition system. The SRCAWS software package provides all the basic statistical reports on system availability over a given time period.

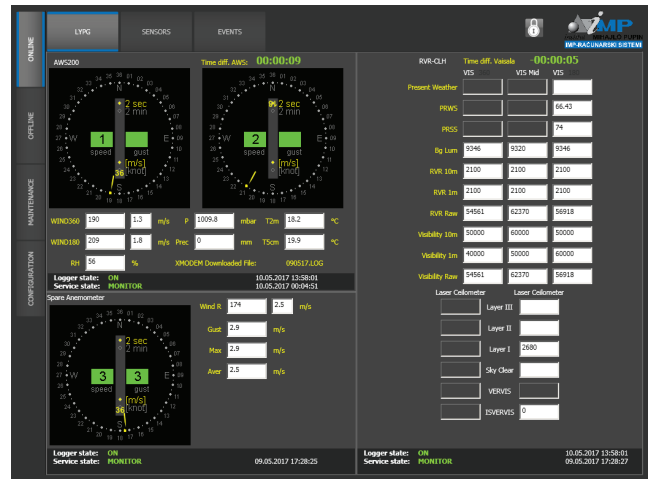
SRCAWS key features:

- local and remote alarm when sensor or device changes its operation status;
- immediately detects and indicates the following operation status
 - o regular measurement values;
 - o any break in sensor operation;
 - o sensor out of range measurement;
 - o irregularity reported by meteorological stations;
- records each sensor status;
- performs statistical evaluation of sensor status;
- 24/7 operation;
- openness for different hardware manufacturers and various generations of measuring equipment (support for different meteorological stations such as VAISALA MIDAS IV and MICROSTEP AWS200, others on request);
- comprehensive event and error logging system.

The SRCAWS system architecture (SOA - service oriented architecture) enables two configurations of the software, the first configuration is designed for local airport installations while the second configuration is designed for SMATSA headquarters.

The airport installation includes:

- device communication services;
- database access service;
- user application;

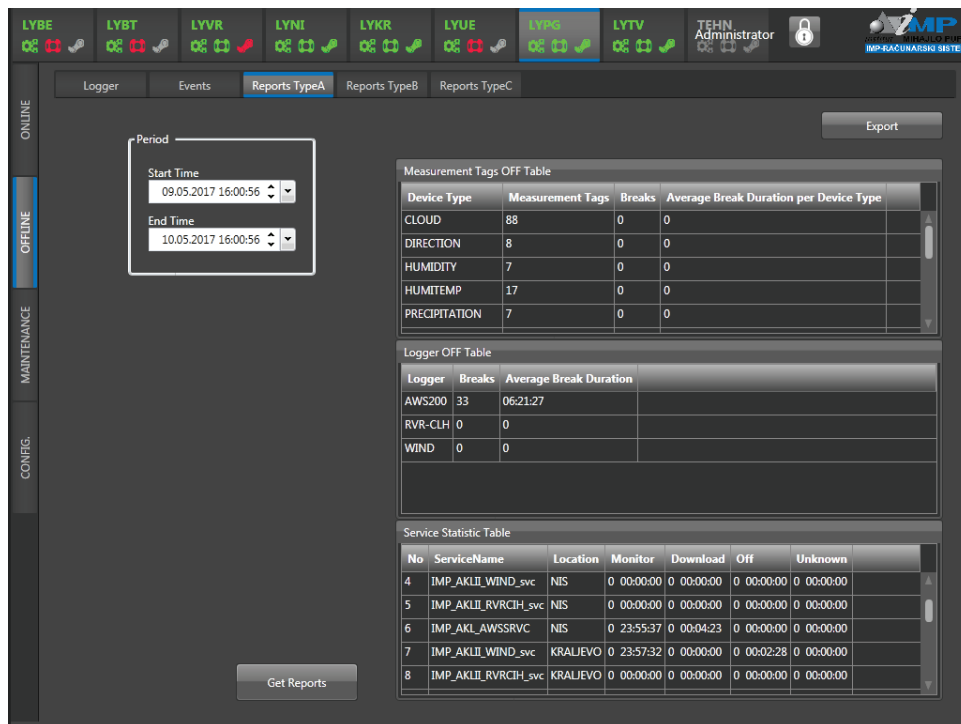


User application at the airport

- communication service for synchronization with headquarters' communication service;
- local database.

The installation in the regional flight control consists of:

- database access service;
- user application;
- headquarters communication service for synchronization with airports' communication services;
- central database.



Basic statistical report on system availability