

## What is SAEAUT SCADA

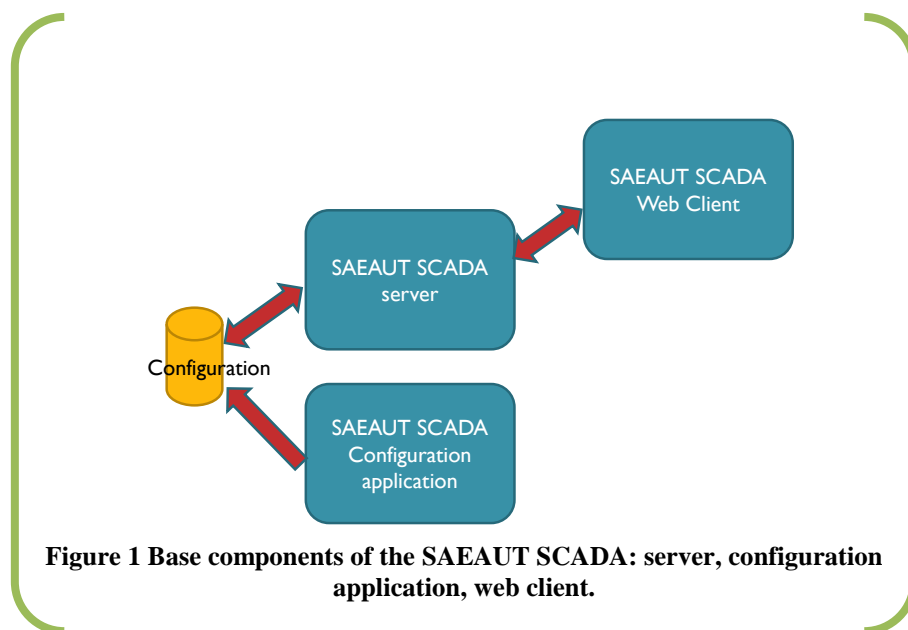
### *SCADA*

stands for Supervisory Control And Data Acquisition.

### *SAEAUT SCADA*

is product package providing basic functionality consisting of a SCADA server, configuration application and SAEAUT SCADA Web Client.

SAEAUT SCADA can be understood even wider - virtually the entire portfolio of our software products can be used in a variety of specialized SCADA systems. Since we also provide custom software development, we can either develop missing elements or integrate software from other vendors for specific applications. For ease of reference in our product portfolio, we have created an [overview of the properties of components and software products that includes SAEAUT SCADA](#).



**Figure 1 Base components of the SAEAUT SCADA: server, configuration application, web client.**

## Interconnection of SAEAUT SCADA components

SAEAUT SCADA is designed so that it can be used just as easily using our various software products as well as products of other vendors. It is primarily due to the way the individual components communicate with each other within SAEAUT SCADA system. The basic principle is the use of OPC standards ensuring interoperability and communication.

SAEAUT SCADA server contains OPC DA client that allows you to communicate with external devices which have available communication drivers implemented as OPC DA servers:

- An example of that is our SAEAUT SNMP OPC Server that communicates with various external devices such as I / O modules, UPS, IT equipment such as switches, routers. It enables to monitor the system on that SCADA server is running,
- another example of that is other vendor's product KNX OPC DA server allowing different devices to communicate with building automation system.

**SAEAUT SCADA server** also contains OPC DA server which allows you to not only communicate with **SCADA SAEAUT Web client** containing OPC DA client but also with different visualization systems (HMI) other suppliers. This solution also allows you to choose whether you want to place a SCADA client (HMI) on the same computer as is SCADA server or another in the same domain. Using OPC XML DA and OPC UA wrappers you can communicate with SCADA client SAEAUT SCADA server via Internet / Intranet. Such an example the client may be our product SAEAUT WebExplorer incorporating XML DA client.

SAEAUT SCADA server can use different database systems from the cheapest to the most expensive and most powerful. It is only necessary to have installed the corresponding database communication driver. The database may in fact serve as a communication interface between the two applications. E.g. our product SAEAUT SMS Service to send information to enable an alarm is connected to the SCADA server over shared database that stores incoming and outgoing SMS. Through a shared database can SAEAUT SCADA also connect with different applications of an ERP system.

Another communication interface is DDE. It allows:

- Usage for communication with external devices over DDE servers
- Implementing of visualization in MS Excel.

Perhaps the most universal is the DLL interface. Many manufacturers deliver with their electronic modules various DLL or ActiveX through which they can connect to SAEAUT SCADA server. DLL interface allows you also to implement a variety of complex algorithms as a DLL and integrate them into SAEAUT SCADA.

## Configuring SAEAUT SCADA

SAEAUT SCADA Configurator allows you to configure:

- interconnection of data sources and targets, eg. ensure that data from the SNMP OPC server to monitor over the SAEAUT SCADA web client
- SCADA systems standard features as creating historical trends and storing them in databases, alarms, reports,
- processing of data from external sources with configurable commands.

Usually it is necessary to configure the processing of data from many different data points / variables / items. To reduce labour intensity and error is important to automate this activity. This is ensured by mapping data sources to internal variables in SAEAUT SCADA server and also mapping of internal variables to OPC variables through the SCADA server communi-

ates with SCADA clients. Mapping functionality is provided for external OPC and DDE servers and also to tables of process databases.

Configurator can also be used to debug configuration and also as a desktop SCADA client. Implementing of graphical visualization configuration is just running.

## **The functionality of the product portfolio**

In a [review of the properties of components and software products](#) that includes SAEAUT SCADA lists various components of sold products as well as features that provide.

For most products there is division on the configuration application with a user interface and runtime application without user interface. This approach is used for example in SAEAUT SMS Service, which contains (1) a specific application configuration using e.g. for configuration of parameters and recipients within SMS communications, and (2) the runtime application that can operate through shared database as part of SAEAUT SCADA server.

Several products that are listed in the report may of course be used separately - outside SAEAUT SCADA e.g. [SAEAUT SMS Server](#) or [SAEAUT UNIVERSAL OPC Server](#).

## **Ordering of components SAEAUT SCADA**

Integrators companies can create own SCADA systems using our products. In case that a product has own [order number in the table](#) it is possible to download and pay it over Internet software portals as ShareIt or RegNow. In the event that reported product features are marked with a "v" - optional, please contact us and we will send you an offer according to your specific requirements.

## **Summary**

SAEAUT SCADA provides all the important features that a SCADA system has to contain - sufficient variability and openness to third-party products. This document is intended to serve as a brief explanation of the properties [of tabular overview of components and software products that includes SAEAUT SCADA](#).

For details on each our products, which are part SAEAUT SCADA visit the related product Web sites for example <http://www.saeautom.sk/en/products/opcdbgateway/>,