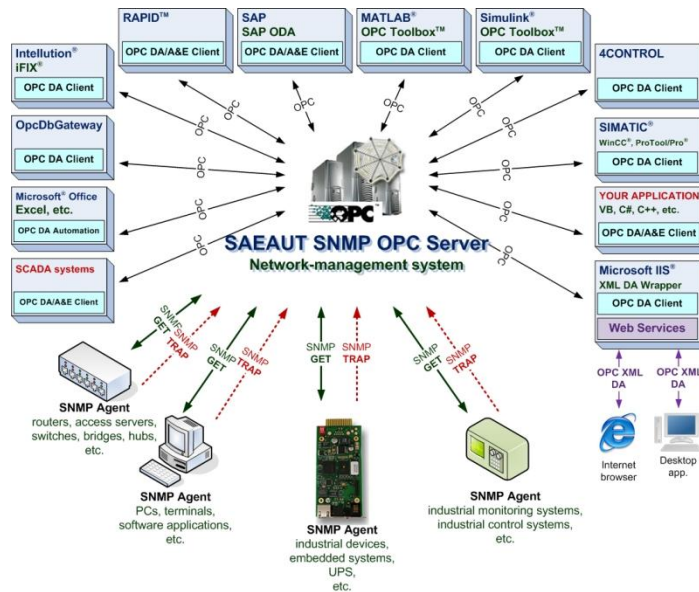# SAEAUT SNMP OPC Server

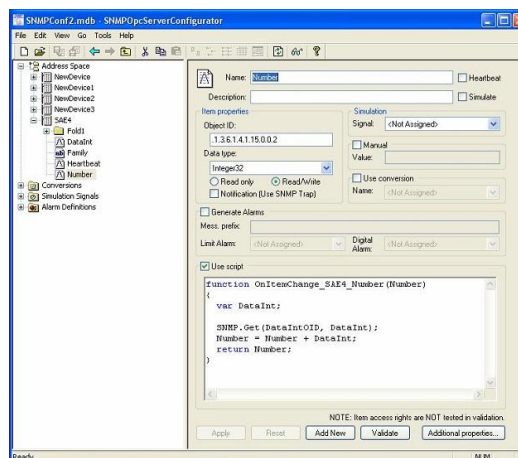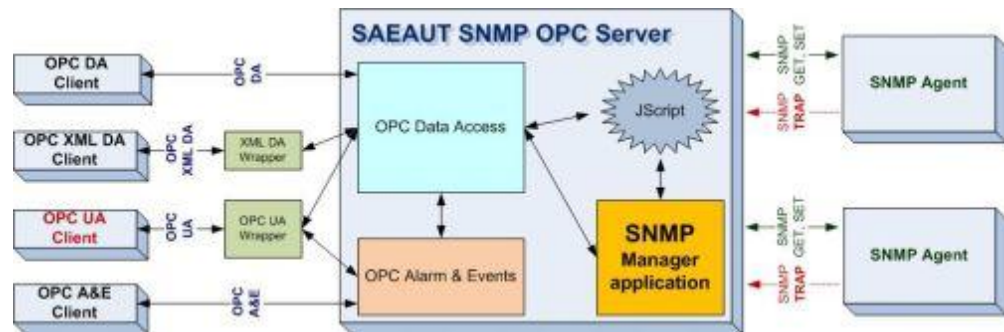## Exploitation of SAEAUT SNMP OPC Server

The common way for managing industrial and network devices is to run SNMP manager on a workstation while SNMP agents run on devices themselves.
In order to be able to integrate the network management into various HMI and SCADA systems with implemented OPC clients, it is very useful to incorporate SNMP manager into OPC server application.

Devices without SNMP agent can be watched using ICMP PING.

- **Monitoring**
- **Control**
- **Connecting different devices with programs using OPC Clients**

Development and support:
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Versions

SAEAUT SNMP OPC Server	Basic	Enhanced	Professional
Configurator	✔	✔	✔
Built-in monitoring client in configurator	✔	✔	✔
Max. number of connected devices	15	unlimited	unlimited
MIB Browser (On-line)	✔ (without the option to add new items)	✔ (full-featured)	✔ (full-featured)
MIB Browser (Off-line)	✖	✖	✔
Import from CSV files - reading OID and other information from CSV files	✔	✔	✔
Alarm management	✔	✔	✔
SNMP GET operation can be called from the configurator	✔	✔	✔
SNMP SET operation can be called from the configurator	✔	✔	✔
JScripts	✖	✔	✔
IP Scanner	✖	✔	✔
Events logging	✖	✔	✔
Find tool	✔	✔	✔
XML DA wrapper	✔	✔	✔
SAEAUT SNMP OPC Agent	✖	✔	✔
SAEAUT SNMP OPC Client	✖	✔	✔
OPC Client applications source code	✔	✔	✔

The SAEAUT SNMP OPC Server features

- from **SNMP** point of view, it acts as a **Network Management System**
- implemented protocols **SNMPv2c** and **SNMPv1**
- implemented specifications **OPC DA (Data Access) 3.0, 2.05, 1.0**, **OPC AE (Alarms and Events) 1.10**
- the installation package contains **OPC UA 1.01 wrapper** which brings the possibility to access all data from SAEAUT SNMP OPC server even via the latest OPC standard called **Unified Architecture (UA)**
- the installation package contains **OPC XML DA 1.01 wrapper** which enables communication with SAEAUT SNMP OPC server through **Web Services**
- manages and monitors unlimited number of devices with SNMP agents
- the installation package contains a simple example of running **DEMO** configuration
- ability to define tags by using the **object identification (OID)** from **MIB file** e.g.: .1.3.6.1.4.1.2681.1.2.102
- supports standard SNMP commands **GET** and **SET**
- built-in **MIB Browser (on-line)** sends requests to SNMP manageable devices to get SNMP variables which correspond to objects in MIB database, providing the user with object IDs, data types and values
- Import OID and other information from CSV files
- built-in **MIB Browser (off-line)** for bwowsing SNMP variables from MIB files, provided with SNMP device
- ability to manipulate the acquired data by using **JScripts** which can be configured directly in the SNMP OPC server *
- IP Scanner module for scanning of computer network in a given IP range, in order to find connected SNMP devices *
- allows to receive **SNMP TRAP**, notification message from SNMP Agents
- logging of server events *
- configuration can be done in an **user friendly configuration software**
- allows to obtain information about manageable and unmanageable network devices through standard **Ping** command
- provides the Heartbeat functionality for monitoring of devices which does not include SNMP Agents. This function presents a response time of device as a special OPC variable
- Find tool, which allows you to search for a text within current configuration and immediately browse the occurences in user friendly views
- contains examples of OPC clients together with source codes in C# .NET, VB. NET, VB6