



SAE - Automation, s.r.o.

SAEAUT SNMP OPC Server, Version 2.05.05 Enhanced

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This file provides information about removed bugs, changes, file versions and location of installed files.

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1. INSTALLATION

Using setup program Setup.exe.

2. NEW FEATURES

Version 2.05.05 - **New!!!**

- The Find dialog box allows you to search for text within the current configuration and then interactively review matches. You can access the Find dialog box by choosing Find on the Edit menu, choosing the loupe icon on toolbar or through hot key Shift + F.
- The Find dialog box provides several standard search options to help you improve the accuracy of your search. It allows you to search entire configuration or only part of configuration.
- All Find results are always displayed in the Find Results tab, which is included in Output View.
- The Find Results tab allows you to review each individual search occurrences directly in the main Tree view and also the item details in Dialog view. To review individual search occurrences please Double Click on an item directly in Find Results.
- More about the Find dialog you can find in User's Guide. Please read more about this issue in User's Guide topics "Added the Find dialog box" and associated sub-topics.

Version 2.05.04

- The import of XML files is more optimized.

Version 2.05.03

- Installation package was enhanced about new important documents:
 - Installation & Activation of SNMP Service and SNMP Trap Service for SNMP applications from SAE – Automation, s.r.o.
 - Configuring OPC and DCOM for OPC server and client applications from SAE – Automation, s.r.o.
- User's Guide, Read Me and company web page updated section FAQ.

Version 2.05.02

- Checking the log file size.
- It is possible to set a maximal log file size through SNMP OPC Server Configurator.
- It is possible to set a maximal number of log files through SNMP OPC Server Configurator.

Version 2.05.01

- User's Guide was enhanced about topic "*The first start of SAEAUT SNMP OPC Server*".

Version 2.05.00

- Optimized startup time and decreased CPU load.
- Optimized a logging of messages.

Version 2.04.02

- Alarm definitions definable also for JScript items.
- Support for scanning of network for all accessible devices or for devices with given SNMP community - IP Scanner.
- Enhanced viewing of Log files.

Version 2.03.01

- Support for multi-selecting and multi-adding of MIB objects browsed by MIB Browser.

Version 2.03.00

- Support for browsing for MIB objects of chosen device and adding selected objects to configuration database - MIB Browser.

Version 2.02.00

- Script item user interface changed, adding of Data items into Script item is filtered by chosen Device.
- New user interface for editing of Global JScript variables, support for BOOL, LONG, ULONG, FLOAT, DOUBLE and STRING data types and arrays for all of them apart from STRING data type.

Version 2.01.02

- Global JScript variables implemented.

Version 2.02.00

- Global JScript variables support for BOOL, LONG, ULONG, FLOAT, DOUBLE and STRING data types and arrays for all of them apart from STRING data type.

3. CORRECTED ERRORS

Version 2.05.04 - *Fixed bugs*

- The import of XML files fails.

Version 2.05.03 - Fixed bugs

- The receiving traps which are different from SNMPv1 protocol resulted in the application crash.

Version 2.05.00 - Fixed bugs

- Logging of messages.
- Reading and writing of data items.

Version 2.04.02 - Fixed bugs

- Digital alarms supported.

Version 2.03.03 - Fixed bugs

- Support for Counter64 data type.

Version 2.01.02 - Fixed bugs

- Global JavaScript variables removable from user interface.

Version 2.00.01 - Fixed bugs

- The header and the body of the script in a Script or Data Item is correctly updated when user applies any changes on the name of the Item or device or any parent folder.
- In Data Item, user can first define using of the script and then apply the changes.
- User is not allowed to enter into controls more than database-defined length of specific field.
- Description field have been extended to be of the length of 255 characters.

4. FILELIST AND FILEINFORMATION

SAEAUT SNMP OPC Server

Name: SNMPruntime.exe

Version: 2.5.5.0

Location: ..\SAEAUT SNMP OPC Server\

Description: The main runtime module SAEAUT SNMP OPC Server application.

Name: SNMPCnf.exe

Version: 2.5.5.0

Location: ..\SAEAUT SNMP OPC Server\

Description: The module is used for creating configuration for SAEAUT SNMP OPC Server.

Name: SNMPOPCServer.chm

Location: ..\SAEAUT SNMP OPC Server\Help

Description: The User's Guide for SAEAUT SNMP OPC Server application.

Documents

Name: License.pdf

Location: ..\SAEAUT SNMP OPC Server\

Description: The software license agreement for end-user for software from company.

Name: Relnotes.pdf

Location: ..\SAEAUT SNMP OPC Server\

Description: This file provides information about removed bugs, changes, file versions and location of installed files.

Name: White Papers.pdf

Location: ..\SAEAUT SNMP OPC Server\Help

Description: List of White Papers related to SAEAUT SNMP OPC Server from SAE – Automation, s.r.o.

XML-DA interface

Name: SAEAutomation.SNMPopcServerDA.3.asmx
Location: ..\SAEAUT SNMP OPC Server\Web Service\
Description: The Web Service which extends the SAEAUT SNMP OPC Server application functionality about OPC XML DA interface. Please read more about this issue in User's Guide topics "XML DA Wrapper – Web services" and associated sub-topics.

Name: XMLDAWrapperSetup.msi
Location: ..\SAEAUT SNMP OPC Server\XML-DA Setup\
Description: The XML-DA Wrapper assembly which makes SAEAUT SNMP OPC Server available through Web Services. It needs the Internet Information Services (IIS). Please read more about this issue in User's Guide topics "XML DA Wrapper – Web services" and associated sub-topics.

Examples

Name: SAEConf.mdb
Location: ..\SAEAUT SNMP OPC Server\Examples\Configurations
Description: Example of simple project file.

5. FAQ

This section is regularly updated on the company web page, please the link:
<http://www.saeautom.sk/products/snmpopcserver/faq.htm>

1. What SNMP protocols are implemented in SAEAUT SNMP OPC Server?

- SNMPv2c.
- SNMPv1.

2. What OPC interfaces are implemented in SAEAUT SNMP OPC Server?

- OPC Data Access 3.0, 2.05 and 1.0.
- OPC Alarm and Events 1.0.
- OPC XML Data Access 1.01 (*Part of installation package is the OPC XML-DA Wrapper which provides an OPC XML-DA Web Service interface as a front-end to one or more OPC COM DA 2.x and 3.0 servers.*)

3. The first start of SAEAUT SNMP OPC Server.

Recommendation: Please read more about this issue in User's Guide topic "The first start of SAEAUT SNMP OPC Server application".

4. Writing the value on data item doesn't work. Why?

- Data item is read only: Check the rights of data items you are using. Open SAEAUT SNMP Server Configurator and choose data item. Change the rights to Read/Write.
- Community of the device is read only: Check the rights of the community you are using. When the device is PC, in administrative tools choose services and SNMP service. Open SNMP service Properties dialog and choose Security tab. Check Accepted community names and choose the community you are using. Change the rights to READ WRITE. You can add your own communities with desired rights and use them when configuring the device.

5. Which communication ports does the SAEAUT SNMP OPC Server use?

SNMP communication (between SNMP OPC Server and SNMP device):

- SNMP (UDP 161)
- SNMP Trap (UDP 162)

OPC communication (between SNMP OPC Server and OPC Client):

- OPC (TCP 135)

Heartbeat communication (between SNMP OPC Server and SNMP device):

- Heartbeat (**ICMP Echo** (ping) request; **ICMP Echo** (ping) reply). ICMP is Internet Control Message Protocol.

6. Which ports are used in the SNMP communication?

SNMP uses the default UDP port 161 for general SNMP messages and UDP port 162 for SNMP trap messages. If these ports are being used by another protocol or service, you can change the settings by modifying the local *Services* file on the agent. The *Services* file is located in `%SystemRoot%\System32\Drivers\Etc`

7. The SAEAUT SNMP OPC Server doesn't receive any traps? Why?

Please try to check the Windows Firewall whether the SNMP trap messages use allowed. The SNMP trap messages use default UDP port 162.

To enable SNMP trap messages in Windows Firewall, please do the following:

1. Click on the [Windows Start](#) ⇒ [Control Panel](#) ⇒ [Windows Firewall](#).
2. In the [Exceptions](#) tab click on [Add Port](#) and in the associated dialog fill out the fields as follows:
 - Name: [SNMP Trap](#)
 - Port number: [162](#)
 - Select the [UDP](#) radio button.

Note that: The SNMP trap messages may be received on another UDP port as well. Please see more in the next point: Which ports are used in the SNMP communication?

8. How to configure OPC and DCOM?

Please refer to the document [Configuring OPC and DCOM for OPC server and client applications from SAE – Automation, s.r.o.](#) that describes OPC and DCOM settings in detail - available in [Windows Start](#) ⇒ [SAEAUT SNMP OPC Server](#) ⇒ [Configuring OPC and DCOM](#).

9. How to make SAEAUT SNMP OPC Server data available via Internet/Intranet?

Recommendation: Please read more about this issue in User's Guide topics "[XML DA Wrapper – Web services](#)" and associated sub-topics.

10. How is it possible to verify that XML-DA wrapper has been installed correctly?

Recommendation: Please type the URL in the internet browser as follows: <http://localhost/XML-DA/SAEAutomation.SNMPopcServerDA.3.aspx>. If the XML-DA wrapper is working correctly you will see a web service test page which will inform you about all operations which are supported (it is a standard test page for all ASP.NET web services).

11. If the XML-DA wrapper is installed successfully and working, how should we get the related web services' WSDL?

Recommendation: If the web service test page is working, just click on "Service Description" link on the top of the screen to display web service's WSDL or visit the following link <http://localhost/XML-DA/SAEAutomation.SNMPopcServerDA.3.aspx?WSDL>.

12. In the User's Guide is mentioned 'Win XML-DA OPC Client', where can we get this software and what is this software for?

Recommendation: XML-DA OPC Client is a sample application only for the purpose of testing and demonstration how to access data through XML-DA interface.

Please contact us (sae-automation@saeautom.sk) and you may obtain the source code of this application on demand.

13. Why is it not possible to overwrite the data items browsed and added by MIB Browser?

SNMP variables browsed from device do not contain information about access rights of variable and by default all the items added to configurator by browsing have access rights set to read only to avoid misusing. Such variables are not possible to overwrite from the client and it is user's task to change access rights and all desired properties of the data item. Properties of data items including access rights are possible to

change from user interface of configurator. Please read more about this issue in User's Guide topic "Data Item".

14. In data item definition: Why does the data item validation fail?

Validation of data item can fail in following cases: device supposed to have SNMP agent with desired SNMP variable is not connected or is incorrectly defined. Check IP address and community of device. Or: desired SNMP variable is not a leaf variable of a MIB Tree. Only leaf variables are readable from the device and valid able. Check the Object ID of the SNMP variable. To be sure about Object ID, you can browse all the SNMP variables of the device from a specified default Object ID. If you do not wish to browse all the SNMP variables of the device, specify different default Object ID that is closely to the desired you are looking for. For example, if you are not sure about OID: .1.3.6.1.2.1.25.3.2.1.3, if it is a leaf node, put it into Default OID and press Get button for SNMP request. If it is a branch node, all the nodes below will be browsed and you can access wished Object ID. See MIB Browse help.

15. Why OPC client cannot read Script items or Data items that use scripting?

Reading of Script items or Data items that use scripting fails when any of the used scripts fails to be parsed. If any script fails to be parsed, no script is executed for any item. Check the scripts that you defined in the configurator, if there are no illegal characters or programming errors.

16. When does adding of MIB browser items into configurator throw an error?

If adding of browse items into configurator fails and throws an error, it is usually because items supposed to be browsed would not be unique in a project file. It happens when attempting to write to the project file that is not active. Make sure that the project file is set to active and try browsing again. Please read more about this issue in User's Guide topic "Make Active".

17. How to activate my product?

In order to activate your software product to full version you will need to enter a name and the license key. Please start the product you want to activate and click **Enter key** when asked about product registration. You will be presented with a dialog window that shows **hardware fingerprint**. Please e-mail us this fingerprint and tell us the **Name** under which you'd like to activate your product. Based on this information we will send you back the license key that can be used to activate your product.

6. KNOWN ISSUES

1. Reading the item values through XML-DA.

Recommendation: Please use for reading of items technique Subscription.

2. From the following link <http://localhost/XML-DA/SAEAutomation.SNMPopcServerDA.3.aspx> is not possible to get a web service test page. How can the problem be solved?

Recommendation A: Please make sure Microsoft .NET Framework 1.1 or higher is installed on your computer correctly (you can see if .NET Framework is installed via Administrative Tools panel). If so, try to reinstall .NET Framework. You can download it at:

<http://www.microsoft.com/downloads/details.aspx?FamilyID=262d25e3-f589-4842-8157-034d1e7cf3a3&displaylang=en>

Recommendation B: Make sure .asmx file extension is registered in IIS server.

Recommendation C: Make sure your link is written right.

7. SUPPORT

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8. CONTACTS

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