

a bridge between worlds

NETXKNX OPC Server 3.5 First Steps



NETX KNX OPC Server 3,5











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Der NETxKNX[®] OPC Server 3.5

The system allows the control and - in connection with an applicable OPC client - the visualization of KNX installiert. It builds a connection between the world of KNX and other systems.

The experience and the know-how out of the large projects were used during developing the large amount of small systems. So the system has been realized in a very reliable, open and user friendly way.



Before installation

System requirements

The following operating systems are supported:

OPC Server Direct(KNX):

Microsoft Windows XP Professional 32 bit Microsoft Windows Vista 32 bit | 64bit Microsoft Windows 7 32 bit | 64bit

OPC Server UnifiedDriver:

Microsoft Windows XP Professional 32 bit Microsoft Windows 7 32 bit | 64bit Microsoft Windows 8 64 bit

Microsoft Windows 2008 Server 32 bit | 64bit Microsoft Windows 2012 Server 64 bit

Hardware requirements:

Minimum

PC mit INTEL oder AMD Prozessor 512 MB RAM Ethernet-card 10/100 MBit Screen with 800x600 resolution

Optimal

PC mit INTEL oder AMD Prozessor 2048 MB RAM or more Ethernet-card 1000 MBit Screen with 1280x1024 resolution

Multicore processors are recommended.

NET**x** Automation Software GmbH Firmenbuch Nr: FN258390k Maria Theresia Straße 41 | TOP 10 4600 Wels | Austria T +43 7242 252 900 F +43 7242 252 900 - 21 office@netxautomation.com www.netxautomation.com



Support and contact

Support requests to:

support@NETxAutomation.com

Product information and price lists:

info@NETxAutomation.com



Installation

For proper installation on your PC, please venity that our user has administrative rights, and that no tool (e.g.: an anti-virus program) blocks an entry in the registry.

After opening the application (.exe file), the following window appears:

| NETxKNX OPC Server 3.5 - | UnifiedDriver - InstallShield Wizard | × |
|--------------------------|--|---|
| | | |
| | Welcome to the InstallShield Wizard for NETxKNX OPC Server 3.5 - UnifiedDrive The InstallShield® Wizard will install NETxKNX OPC Server 3.5 - UnifiedDriver on your computer. To continue, click Next. | 1 |
| InstallShield | < Back Next > Cancel | |

Click on the button "Next".

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If you agree with the license agreement, select the option "Accept" and click "Next".

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Enter your user name and your company name and click the button "next"

| NETxKNX OPC Server 3.5 - | UnifiedDriver - InstallShield Wizard | × |
|--|--|---|
| Customer Information Please enter your information. | | |
| | Please enter your name and the name of the company for which you work. | |
| | User Name: | |
| | Name | |
| | Company Name: | |
| | Company | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| InstallShield | < <u>B</u> ack <u>N</u> ext > Cancel | |

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| NETxKNX OPC Server 3.5 - | UnifiedDriver - InstallShield Wizard | X |
|---|---|---|
| Setup Type Select the setup type to install. | | |
| | Please select a setup type. • Complete • All program features will be installed. (Requires the most disk space.) • Custom • Custom • Select which program features you want installed. Recommended for advanced users. | |
| InstallShield | < <u>B</u> ack <u>N</u> ext > Cancel | |

Here you can choose between a complete installation and a custom installation. For beginners we recommend a complete installation. Click on the button "Next".

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| NETxKNX OPC Server 3.5 - UnifiedDriv | er - InstallShield Wizard | |
|--|---|-----------------|
| Choose Destination Location Select folder where setup will install files. | | |
| | Install NETxKNX OPC Server 3.5 - UnifiedDriver to: C:\\NETxAutomation\NETxKNX.OPC.3.5.UD | <u> C</u> hange |
| InstallShield | < <u>B</u> ack <u>Next></u> | Cancel |

Here you can set the installation directory. Then click "Next".

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| NETxKNX OPC Server 3.5 - Uni | fiedDriver - InstallShield Wizard | × |
|---|--|----|
| Ready to Install the Program The wizard is ready to begin installa | tion. | |
| | Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit t wizard. | he |
| InstallShield | < <u>B</u> ack [Install] Cancel | |

The program is now ready for installation. Click on the button "Install".





The installation is now running.

During installation process this window appears.



| NETxKNX OPC Server 3.5 - Unit | fiedDriver - InstallShield Wizard |
|-------------------------------|---|
| | |
| | InstallShield Wizard Complete |
| | The InstallShield Wizard has successfully installed NETxKNX OPC Server 3.5 - UnifiedDriver. Click Finish to exit the wizard. |
| InstallShield | < <u>B</u> ack Finish Cancel |

When this window appears, the program is installed. Click the button "Finish" to complete the installation.

After installation, this icon will appear on your desktop.



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Working with NETxKNX[®] OPC Server 3.5

The OPC Studio

After clicking on the icon at the desktop, the user interface of $NETxKNX^{^{(\!\!R\!)}}$ OPC Server - the OPC Studio is opend.

Here you can work with the OPC server in a pleasant working environment.

| NETWORK OPC Studio *** | DEMO *** - <oni< th=""><th>INE: 'Default'> - [Sys</th><th>tem Messages]</th><th></th><th></th><th></th></oni<> | INE: 'Default'> - [Sys | tem Messages] | | | |
|--|---|------------------------|----------------------------------|-------------------|--|---------------------------------------|
| Workspace Edit Server Fil | e Tools Windows | Info | | | | . Ø |
| 0 4 K | <u>5</u> | 5 Þ | Image: 1 | P | | |
| Save Al Print: To Ex | al Prom Excel Co | onnection Ref 1 | invision Stubdown Tree | Search | | |
| Send Internal (ms) 250 Telegrans Received ; 0 Telegrans Sent ; 8 | Lest Cell Se | | | | | NETXKNX |
| | - A M | 😲 System Messag | 945 - | | | 1 |
| Gateway Monitor | | Drag a column heade | er here to group by that column. | | | Telegram Monitor |
| - ON (Oh 2min) Direct(K | 99 | | | 1.000 | 14.1111 | Fiber (unite) |
| | | Type | Date/Time | Nodule | Message | Dir Type Da Ga De So Description Valu |
| | | 0.00 | 24(11)09 14:10:51 | MONITOR | he todax GPC server connected. | There are no items to them. |
| | | O INU | 24/11/09 14:10:52.808 | SERVER | | |
| | | Con Con | 2401100914:10:52.808 | SERVER | | |
| | | 0 INFO | 24(11)09 14(10)52.808 | SERVER. | 3144(1 **** | |
| | | CO INTO | 24(11)09 14:10:52:000 | SERVER | | |
| | | a sero | 24911909141101521008 | SERVER | APT AND APT FALLER & POPPETING & COMPANY AND ADDRESS AND ADDRESS ADDRES | |
| | | A WARKING | 24/11/09/14/10/52 549 | SERVER | No. 100000 OPC-SPECIES POSSIBLE STATUTE, INTERESTINGTION OF STREAM, WATERING THE OPERATING) | |
| | | A WARNENC | 240100014:10:52.948 | CEDUCO | The Table and the Local designer status. | |
| | | AWARALS | 240100914:10:52:540 | SERVICE | Contribute in Laterial model: you days left | |
| | | Control Internet | 24/11/09 14:10:52:948 | SERVER. | for a stand | |
| | | CO INTO | 24/11/09 14:10:52:540 | CEDIED ENTRE | perved stated | |
| | | Gineo | 24011/09 14:10:52 048 | CEDURD FLUCTURE | Construction of the second s | |
| | | Anto | 24/11/20 14:10:02:040 | CEDICO ENVIRE | Control management concerns | |
| | | Anto | 24011/09 14:10:52 940 | CEDUED EXCILE | optim or comparation pp = antiti | |
| | | Anto | 2471120 14.10.52 049 | SERVICE ENVIRE | Control Contro | |
| | | Anto | 24(11)09 14:10:52 940 | CEDUED ENCINE | Option OF C-september Sector 20 CT | |
| | | Aman | 2421120 14:10:22 049 | SERVER ENVIRE | option or unighted to the testing of the second sec | |
| | | Ann | 24/11/09 14:10:52 548 | STRUED ENGINE | option or service interest = 100 | |
| | | (B) INFO | 24711/09 14:10:52 948 | SERVER ENGINE | option matching of a second seco | |
| | _1 X | (Anno | 24(11)09 14:10:52 540 | STRUED FINCING | optors an activation of the second seco | |
| Cell Monitor | | O DED | 2401109 14:10:52 548 | SERVER ENGINE | open statement contention fattered (and = 10 | |
| 00 (00 / 000) | Leng I | BIND | 24/11/09 14:10:52 940 | STRATE FIGHT | Option MM: ServerPhysicalAddreck = 0.0.257 | |
| and site site and | 1001 | 0190 | 24(11)09 14:10:52.948 | SERVER ENGINE | Octors 315 Endel Constanting = FA SE | |
| | | A WARNING | 24/11/09 14:10:52.940 | SERVER ENGINE | Physical Devices Check is not supported by Direct/07003 Driver. | |
| | | A WARNING | 24/11/09 14:10:52 948 | SERVER ENGINE | Server k Server (kished | |
| | | G1970 | 24/11/09 14:10:52.948 | SERVER ENGINE | Option FALCON.ConfirmedConnection = FALSE | |
| | | 61.00 | 24/11/09 14:10:52.948 | IFALCON | Drasabael. | |
| | | (BINE) | 24/11/09 14:10:52.948 | SERVER_ENGINE | Option 'SYS MarSteeOfTelegramLogFile' = '10' | |
| | | (BIND) | 24/11/09 14:10:52.940 | SERVER_ENGINE | Option SYS.UseTelegramDataFile' = VALSE | |
| | | () INFO | 24/11/09 14:10:52.948 | SERVER_ENGINE | Option 'SYS.GenerateRandom/alues' = 'FALSE' | |
| | | 0140 | 24/11/09 14:10:52.948 | GATEWAY_MANAGER | Send Interval set to : 250 ms | |
| | | 0 1940 | 24/11/09 14:10:52.948 | SERVER_ENGINE | Option SYS_SendVetualTelegrams' = FALSE' | |
| | | O IND. | 24/11/09 14:10:52.970 | TELEGRAM_MANAGER | Number of NETIXI78C Group Addresses: 30 | |
| | | 01NFD | 24/11/09 14:10:52.978 | TELEGRAM, MANAGER | Telegram Definitions loaded. | |
| | | 01910 | 24/11/09 14:10:52.978 | SERVER_ENGINE | Option VM8L SetLinkOnReceive" = "FALSE" | |
| | | 0190 | 24/11/09 14:10:52.978 | SERVER_ENGINE | Option MRI: SetLinkOnSend - FALSE | |
| | | O INFO | 24/11/09 14:10:52.970 | EVENTOR | Timer Event Definitions loaded. | |
| | | 0140 | 24/11/09 14:10:52.978 | EVENTOR | Cyclic Event Definitions loaded. | |
| | | 01970 | 24/11/09 14:10:52.978 | EVENTOR | Event Definitions loaded. | |
| | | 0 1910 | 24/11/09 14:10:52.978 | EVENTOR | Generate managed cyclically data refresh events. | |
| | | () ENTO | 24/11/09 14:10:52.970 | DEVICE MANAGER | Device Manager deactivated | |
| | | INFO INFO | 24/11/09 14:10:52.978 | SERVER_ENGINE | Option TMesh ConnectionTimeout = 1000" | |

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The Direct(KNX) version

The Direct(KNX) version the NETxKNX[®] OPC Server supports all KNX Interfaces: USB, RS232, KNXnet/IP tunneling and routing.

The connection to the OPC server is configurable by using the Falcon driver. This version supports only one gateway for connection to the KNX network.



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The Falcon driver

The Direct(KNX) version includes the Falcon driver of the KNX Association. Using the configuration dialogue of the Falcon drive the connection is configured to the KNX network.

After starting the OPC server in the OPC studio for the first time, the following message will appear, which states that the OPC server has been started for the first time and a connection configuration has to be done:

| NETxKN | IX OPC Server Connection |
|--------|--|
| ♪ | It is first time, that the OPC server is started. At first, the OPC Connection must be configured \ldots |
| | ок |

Click the button "OK".

You will now see the following system information, which states that the OPC server must use NETxKNX 3.5 Falcon configuration:



Click on "OK" again.

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| ETS Connection Manager | |
|---|---|
| NETxKNX OPC Server 3.5 Serial PEI16 - COM1 Serial PEI16 - COM2 USB New Delete | Properties Name: NET xKNX OPC Server 3.5 Type: RS.232 Standard Standard connection Communication parameters COM Port: COM1 |
| | OK Cancel |

The Falcon Connection Manager will be opened:

Here the setting for the connection to the KNX network has to be done. In each case the connection must be set as NETxKNX OPC Server 3.5 Server. The type depends on the interface to the KNX network.



| ETS Connection Manager | |
|---|---|
| Configured Connections NETxKNX OPC Server 3.5 Serial PEI16 - COM1 Serial PEI16 - COM2 USB | Properties Name: NETxKNX OPC Server 3.5 Type: KNXnet/IP Standard connection Communication parameters KNXnet/IP device: Rescan '(P)' indicates programming mode active ABB IP-Router IPR/S (192.168.1.7) MAC addr.: 00:0C:DE:00:01:23 Name: ABB IP-Router IPR/S IP address: 192.168.1.7 Port: 3671 NAT mode |
| New Delete | KNXnet/IP Diagnostic Wizard |
| | OK Cancel |

In this example a KNXnet/IP router is used:

Normally, the program recognizes the connected router and interfaces they can be selected by the dropdown menu.

If this is not the case, you can assign a name and enter the IP address of the gateway manually.

Then you can click "OK".



The server has to be restarted.

| NETxKN | X OPC Falcon Connection | X |
|--------|---------------------------------|-------|
| (į) | Restart OPC server to apply cha | nges. |
| | ОК | |

Click the button "Start" in the menu bar.



To change the connection later (for example: if the gateway has been replaced), you can click on the button "Connection" and call the Falcon Connection Manager again.



The gateway appears now in the Gateway Monitor on the left side at the OPC Studio.

| Gateway Monitor | |
|--------------------------|--|
| | |
| ON (Oh Omin) BROADCAST | |
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The Unified Driver version

In the Unified Driver version the OPC Server supports all KNXnet/IP interfaces and routers. It can manage up to 1,000 of them simultaneously. The connection to KNX is configured in the OPC studio using the Gateway Definition File.



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The Gateway Definitions File

When using the Unified Driver version, the correct gateway connection to the KNX network, has to be set in the Gateway Definitions File first.

You can open this file in the studio by clicking on the menu "File" "Gateway Definitions" and "Open".

This tab will appear:

| 😲 System Messages 🛛 🚐 Gateway Definitions | | | | | | |
|--|--|----------------|-------|-------|----------|-------------|
| | IP Address | Туре | Port | Name | Locality | Description |
| 1 Syntax of the Gateway Definition Table ver. 3.5: | | | | | | |
| 2 | IP Address;Port;Type;Name;Locality;Description | | | | | |
| 3 | | | | | | |
| 4 | 192.168.1.1;IGS;52000;GATE 1;Room 51;pre-defined Gateway 1 | | | | | |
| 5 | 192.168.1.7;NETIP;3671;Gate2 | | | | | |
| 6 | 192.168.1.8;N | ETIP;3671;Gate | :3 | | | |
| 7 | 192.168.1.13 | NETIP | 3671 | Gate4 | | |
| 8 | 192.168.1.2;El | BNODE;1634;0 | ∋ate4 | | | |
| | | | | | | |

Here you can type in the IP address, of the port and any additional information of the gateway.

If this is completed, save the file with "File" "Gateway Definitions" "Save" and close it with "File " "Gateway Definitions" "Close".

Now your gateway is defined and after rebooting the server, it appears in the Gateway monitor.

| Gatew | ay Monitor |
|-------|------------------------|
| | 0h 0min) 192.168.1.13 |
| ON (| 0h 0min) BROADCAST |
| | |
| | |
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The .esf File

Using ETS, you can assign to each data point (e.g. lights, switches, ...) in the KNX network to a KNX group address, that adress the data point and the data point is addressed.

Using the OPC export at the ETS an .esf file will be generated. This file can be importes into the OPC Server which allows the acces to these data points.



This file can be imported to the OPC Server very easily.



To do so, click in the OPC studio in the menu "Server" and then "Import ETS[©] Project". This screen will be opened:

| 👫 NET×KNX ET | S Converter 3.5 | | × |
|--------------|--|--|------|
| ETS Exp | orted OPC File | Test.ESF | |
| Tra | nslation File | nxaConvTrans.ctf | - 18 |
| | | | _ |
| Def | ault Gateway: | BROADCAST | - 1 |
| Outpu | ut Address Type: | 3-Level EIB Group Address | • |
| Create: | Telegram Definitions | File nxaTelegramDefinitions.35.dat | - 1 |
| Options: | New (all old del Append (new d Update (new d | finitions will be deleted) lefinitions will be attached only) efinitions will be inserted and old definitions will be updated) | |
| Create: | Link Definitions Fi | nyal ink/Definitions 35 dat | |
| | New (all old defir Append (new definition) | nitions will be deleted) finitions will be attached only) | |
| 🔽 Create: | ETS Group Names | File nxaGroupAliases.35.dat | - 1 |
| | New (all old defin Append (new definition) | itions will be deleted) finitions will be attached only) | |
| | | Convert Close | |
| ver: 4.0.600 | | www.NETxAutomation.com | |

In order to import the file, the path of the saved .esf files has to be specified. Click on "OPC ETS Exported File ..." and select the .esf file.

During the import definition file is created, which uses the OPC Server for sending telegrams. The OPC server automatically accesses to the Telegram definition file. Further adjustments can be made too.

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<u>Direct(KNX)</u>: In this version, the **Default Gateway** is always BROADCAST, as only one gateway can be used. Broadcast means that all gateways will be addressed.

<u>UnifiedDriver:</u> You can select a **Default Gateway** that will be accessed standard, by typing in the IP address of that gateway.

The **Output Address Type** indicates whether the KNX group address, are using the two level or three level addressing schema.



After choosing the file you can click on "Convert".

| NET×KNX ET | S Converter 3.5 | | × |
|------------------|--|--|---|
| ETS Exp | orted OPC File | Test.ESF | |
| Translation File | | nxaConvTrans.ctf | |
| Def | ault Gateway: | BROADCAST | _ |
| Outpu | ut Address Type: | 3-Level EIB Group Address | • |
| Create: | Telegram Definitions | File nxaTelegramDefinitions.35.dat | |
| Options: | New (all old de C Append (new old) | finitions will be deleted) definitions will be attached only) | |
| | O Update (new d | lefinitions will be inserted and old definitions will be updated) | _ |
| 🔽 Create: | Link Definitions F | ile nxaLinkDefinitions.35.dat | |
| | New (all old defin Append (new de | n <mark>itions will be deleted)</mark> finitions will be attached only) | |
| Create: | ETS Group Names | File nxaGroupAliases.35.dat | |
| | New (all old define C Append (new define define define C Append (new define define define C Append (new define def | n <mark>itions will be deleted)</mark> finitions will be attached only) | |
| | | Convert | |
| ver: 4.0.600 | | www.NETxAutomation.com | |

The file was imported successfully and now work can be continued.

If the .esf File has to be updated, you can choose of three different ways to do that:

- 1) a **new** one should be created, then all old definitions will be deleted
- 2) **merge** the definitions, then the new definitions will be inserted and the old definitions will remain
- 3) **update** the definitions, then new definitions will be inserted and the old ones will be updated

In addition to the "Telegram Definitions" file, the "Link Definitions" file and the "Group Names" file can be generated. The "Link Definitions" contain the linking information at group address. The "Group Names" contain the names of the KNX group address that have been assigned within the ETS

You can click on the corresponding option.



The OPC tree

To list up all OPC items (data points), you can show the OPC tree can be used. This works via the icon bar, where you can click on the icont "OPC Tree". The OPC Studio shows now a logically structured tree contain, with the individual data points.



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In order to show properties of the OPC items (value, quality, description, ...), you can click with the right mouse button on each item and choose "Show Properties". It appears another window that shows the properties of the OPC item.

| 😲 System Messages 🏄 OPC Items | | | <u> </u> |
|--|--------------------|--------------------------|-------------------------------|
| | 1 | 🧖 Switch Sensor A - P | ush button -short |
| | | 🛛 😼 \NET×KNX\192.168.1.1 | 3\05/0/003 |
| Aliases | | | last (|
| H BROADCAST | | Name | Value |
| E 192.168.1.13 | | Item Canonical DataType | BOOL |
| GATEWAY] = (True) | | Item Value | False |
| 🕀 👽 Devices | | Item Quality | GOOD |
| | | Item Timestamp | 11/24/2009 3:39:59 PM |
| | | Item Access Rights | READ and WRITE |
| | | Server Scan Rate | 10 |
| | | Item Unit | |
| - 80 0 | | Item Description | Switch Sensor A - Push button |
| 🔤 🐏 [001] - Dim Actuator excess temperatur | , | Logical Group Address | 05/0/003 |
| | peratur 📗 | Data Size | 1 |
| 🔀 [003] - Switch Sensor A - Push button - | short = (False) | Last Set | 11/24/2009 3:39:59 PM |
| 99 F0041 - Din Send Telegramm | (Falce) | Gateway IP Address | 192.168.1.13 |
| | | Item Type | 1 |
| | imming | Item Status | 1 |
| [006] - Din Add to monitor p | ess value | | |
| 🛛 👪 [007] - Din Show Properties 🛛 🛛 | brightness value = | | |
| | | | |
| 🛛 🛐 [009] - Dim Output A Error signal | | | |
| [010] - Dim Output A Status byte | | | |
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Import of a demo project

Each OPC server project is also referred as a Workspace. If, for example: a demo project has to be started, you must remember the following points.

A workspace consite the following directories:

- Config Files
- Data Files
- Event Files
- Log Files
- Prosed Files
- Log Files

In these folder, the entire OPC server configuration is sotred. Each workspace is saved in a parent folder e.g.: "Home Demo OPC". This must be copied in the Workspace folder in the installation directory of the OPC server.

Direct(KNX):

Adresse 🛅 C:\Programme\NETxAutomation\NETxKNX.OPC.3.5.KNX\Workspaces

UnifiedDriver:

Adresse 🛅 C:\Programme\NETxAutomation\NETxKNX.OPC.3.5.UD\Workspaces

¥

¥



If this is done the OPC Studio can be opened. If you now click in the menu bar on "Workspace" and "Open Workspace ...", the following window will appear:

| 👪 Open Workspace | |
|------------------|-----------|
| | |
| Default | |
| Demo Home OPC | |
| Demo_large_OPC | |
| | |
| | OK Cancel |

Now you can select the particular workspace by clicking on the symbol and confirm with the "OK" button.



The simulation mode

For testing or demonstration purposes, the OPC Server can also be started in a simulation mode. In this mode no data from the KNX bus will be sent or received, and Random data is generated. The simulation mode can be started with the button "Simulation" in the menu bar.

) Simulation

After clicking it, this message will appear:

| NETxKN | X OPC System |
|--------|--|
| ♪ | The OPC Server is starting in SIMULATION Mode - no data is sent to EIB/KNX System. |
| | ок |

Remarks

• The OPC Studio is only the user interface of the OPC Server. The OPC Server runs in the background, even if the OPC studio is closed. The server can only be stopped by clicking the button "Shutdown".



- If the OPC Server is Shutdown befor the OPC Studio is closed, the last workspace and the last mode of the OPC Server (normal or simulation) are loaded after the restart.
- By default, the server is registered as a service, but it can also be registered as a COMServer.



Important own notes

NET**x** Automation Software GmbH Firmenbuch Nr: FN258390k

Maria Theresia Straße 41 | TOP 10 4600 Wels | Austria T +43 7242 252 900 F +43 7242 252 900 - 21 office@netxautomation.com www.netxautomation.com