

## **NETx KNX OPC Server**

Standard OPC solution for KNX projects of different size

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# Functions

## Performance

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- Connection of the server to KNX network via KNXnet/IP tunnelling
- Increased data throughput using multiple KNXnet/IP routers or interfaces – parallel communication of the KNX OPC Server with divers KNXnet/IP devices
- No exceeding of the maximum bandwidth of the KNX TP1 medium through sending changes in data and network telegrams in specific time intervals to the KNXnet/IP devices
- High data throughput without overloading the network
- More than 100,000 group addresses in one project possible

## Scalability

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- Extension of the KNX group addresses by the IP address of the KNXnet/IP routers or interface
- Therefore, re-use of the group address space behind each KNXnet/IP router or interface possible
- Multiple KNX installations with separated ETS projects in one single NETx KNX OPC Server possible

## Adding functions

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- Implementation of extended functions using server tasks, response events and LUA scripts
- Custom Items in addition to physical data points possible
- Therefore, creating user-specific data structures possible

## Monitoring

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- Monitoring telegrams and data points within the NETx KNX OPC Studio
- Additionally, monitoring connection state of all KNXnet/IP routers or interfaces and the status of the server (online/simulation, main/backup, active/standby)
- State can be uses as OPC item
- Using this IOC items for e.g. visualization possible

## Management client connection

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- NETx KNX OPC Server has an OPC DA 2.0 interface
- Connection to any OPC clients possible
- Number of OPC clients not limited
- Proprietary VNET protocol is supported -> quick and easy connection between NETx KNX OPC Server and NETx Voyager

## Main/backup

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- Integration of main and backup server as hot-standby solution
- Real-time synchronization of the data points between main and backup server

- Automatic activation of the backup server at interruption of the communication with the main server
- Automatic data synchronization with the backup server when restoring the main server
- Automatic switch without interruption of the application (e.g. visualization)

# Versions

## Unified Driver

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- Driver: NETxAutomation (KNXnet/IP tunnelling)
- Connection to KNX network via KNXnet/IP router or interface
- Supported protocols: KNXnet/IP tunnelling, ABB IG/S, b.a.b.-tec (eibNode)
- Active monitoring of availability of physical devices

## Direct(KNX)

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- Falcon driver – KNX Association
- Connection to KNX network via USB, KNXnet/IP router or interface
- Falcon driver integrated
- For one KNX interface only
- Suitable for small KNX projects

# System requirements

## Hardware

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- PC - Intel or AMD - 1.8 GHz (multi-core recommended)
- RAM: 2048 MB
- Hard disk: 32 GB (64 GB recommended)
- Ethernet interface: 100 MBit/s
- Resolution: 1280 x 1024

## Supported operating systems

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- Windows 7 (32 bit | 64 bit)
- Windows 8 (64 bit) | Windows 8.1 (64 bit)
- Windows 10
- Windows Server 2008 R2 (32 bit | 64 bit)
- Windows Server 2012 | 2012 R2 (64 bit)

## Order information

Software		Product-ID
<b>Unified Driver</b>		
KNXnet/IP router or interface: 1		S03.03.5.20.01
KNXnet/IP router or interface: 3		S03.03.5.20.03
KNXnet/IP router or interface: 5		S03.03.5.20.05
KNXnet/IP router or interface: 10		S03.03.5.20.10
KNXnet/IP router or interface: 20		S03.03.5.20.20
KNXnet/IP router or interface: 32		S03.03.5.20.32
KNXnet/IP router or interface: >32		S03.03.5.20.xx
<b>Direct(KNX)</b>		
KNX interface: 1		S03.03.5.10.01
USB Dongle	Free USB Port necessary	H00.00.0.00.04

- All versions are available as Softlock (license code) or Hardlock (USB-Dongle).  
Hardlock version is recommended, as by changing the hardware or the operating system no re-licensing is necessary.

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