Migration Guide
From KNX IP BAOS 770 to KNX IP BAOS 771/772

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Introduction

The KNX IP BAOS 771 is the next generation version of the KNX IP BAOS 770. Client applications developed for the KNX IP BAOS 770 have to be adapted to work with the KNX IP BAOS 771. The reason for this is the change of the KNX IP BAOS Binary Protocol. The KNX IP BAOS 770 supports the protocol Version 1.x, the KNX IP BAOS 771 the version 2.x.

kdrive BAOS SDK

If you are using the kdrive BAOS SDK (Software Development Kit), you have to get the latest version of it at www.weinzierl.de. The kdrive BAOS SDK identifies the used KNX IP BAOS and selects the proper protocol version automatically.

Binary Protocol (TCP/IP and UDP/IP)

The binary protocol of the KNX IP BAOS has been reorganized to fulfill future requirements. The following things have been changed:
- Changed: All length / count information extended from one byte to two bytes (more than 255 objects can be addressed)
- Added: ServerItem.Ind (currently only used for bus status change)
- Added: GetDatapointDescription: Datapoint type (DPT) added to the response
- Changed: GetDescriptionString: Dynamically length for each string used
- Added: GetDatapointValue: Filter
- Changed: GetDatapointValue: Datapoint state and datapoint length separated
- Changed: DatapointValue.Ind: Datapoint state and datapoint length separated
- Changed: SetDatapointValue: Datapoint command and datapoint length separated

For users of the binary protocol via UDP/IP:
The version in the KNXnet/IP header has been changed to 0x20.

For users of the binary protocol via TCP/IP:
A connection header has been added. This is the same connection header as for the use via UDP/IP.

How to detect the protocol version?
If you want to use KNX IP BAOS device with the protocol version 1.x and KNX IP BAOS devices with the protocol version 2.x, you have to detect which version is used by the device:
- Search for devices with the KNXnet/IP Search request
- In the corresponding answer of the KNX IP BAOS the object server version is returned