

## PROFINET: Changeover from ASi gateways type K20 to KE5



### Introduction

#### Changeover from ASi gateways with PROFINET interface type K20 to the new VBG-EP1-KE5-D\*

With these instructions, you can easily switch from previously used K20 gateways to the new KE5 gateways. The following advantages result from a change:

- Extensive web server for easy configuration and diagnostics
- Easy commissioning via your mobile device
- REST API interface enabling the implementation of IIoT solutions
- Multiprotocol functionality supports PROFINET and EtherNet/IP
- Quick setup via push button

### Switch connections

#### Ethernet



#### Change Ethernet

- Remove the Ethernet connections from the K20 sockets PROFINET 1 and PROFINET 2
- Insert the Ethernet connectors into the sockets X1 and X2 at the VBG-EP1-KE5-D\*.

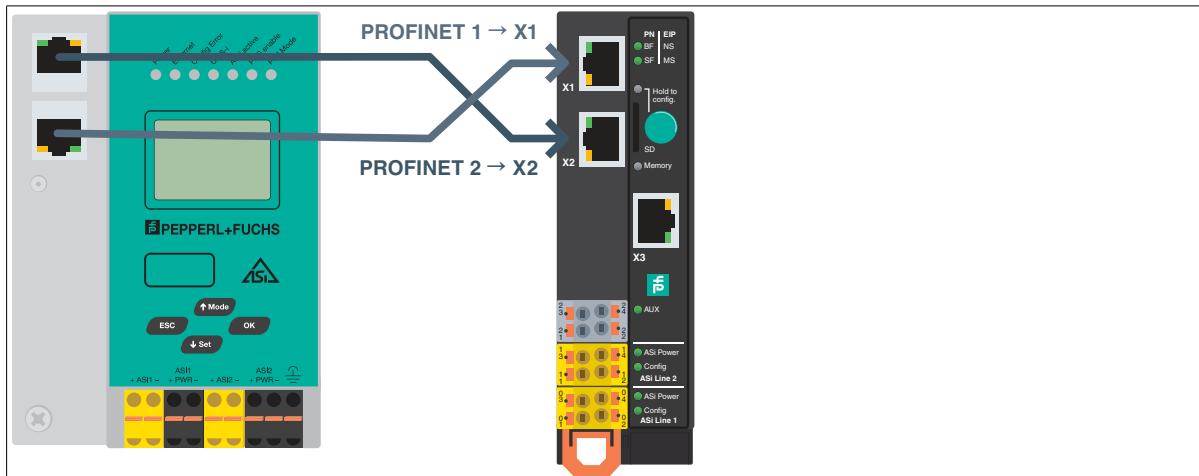


Figure 1

# Brief Instructions

## PROFINET: Changeover from ASi gateways type K20 to KE5

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### ASi Power Supply

#### Note

If you are using a K20 gateway with integrated data decoupling so far, you need a special ASi power supply for the supply of the KE5 gateway.



### Change power supply to VBG-EP1-KE5-D

1. Take the power supply connections out of the K20 sockets ASi PWR+/-.
2. Plug the connections of the power supply into the sockets 03 and 01 on the VBG-EP1-KE5-D.

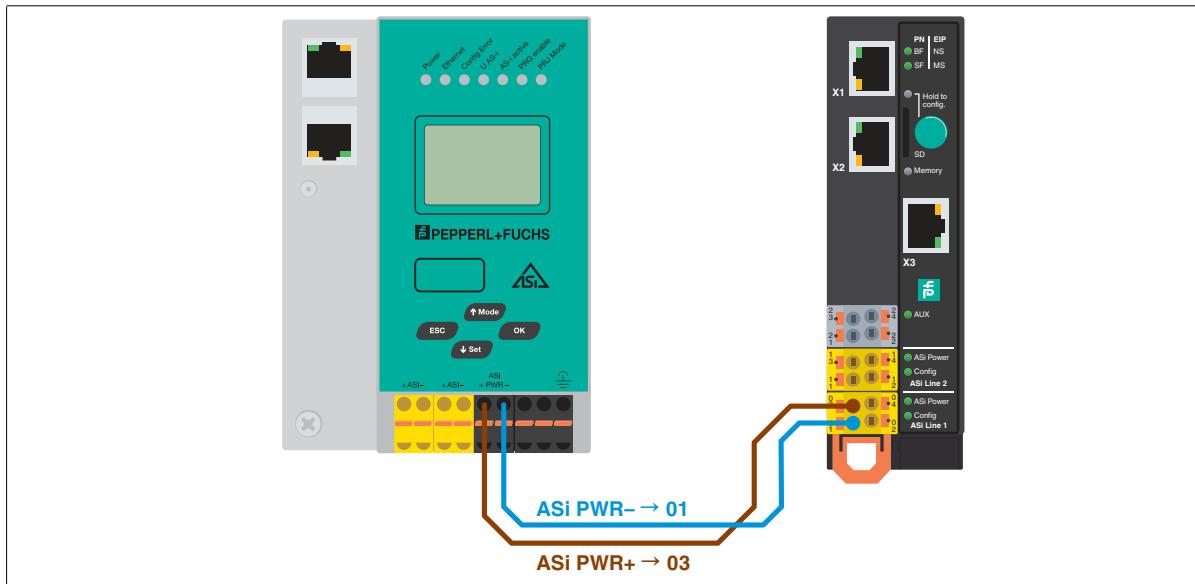


Figure 2



### Change power supply to VBG-EP1-KE5-DMD

1. Take the power supply connections out of the K20 sockets ASi1 PWR+/- and ASi2 PWR+/-.
2. Plug the connections of the power supply into the sockets 03 and 01 for ASi network 1 and 13 and 11 for ASi network 2.

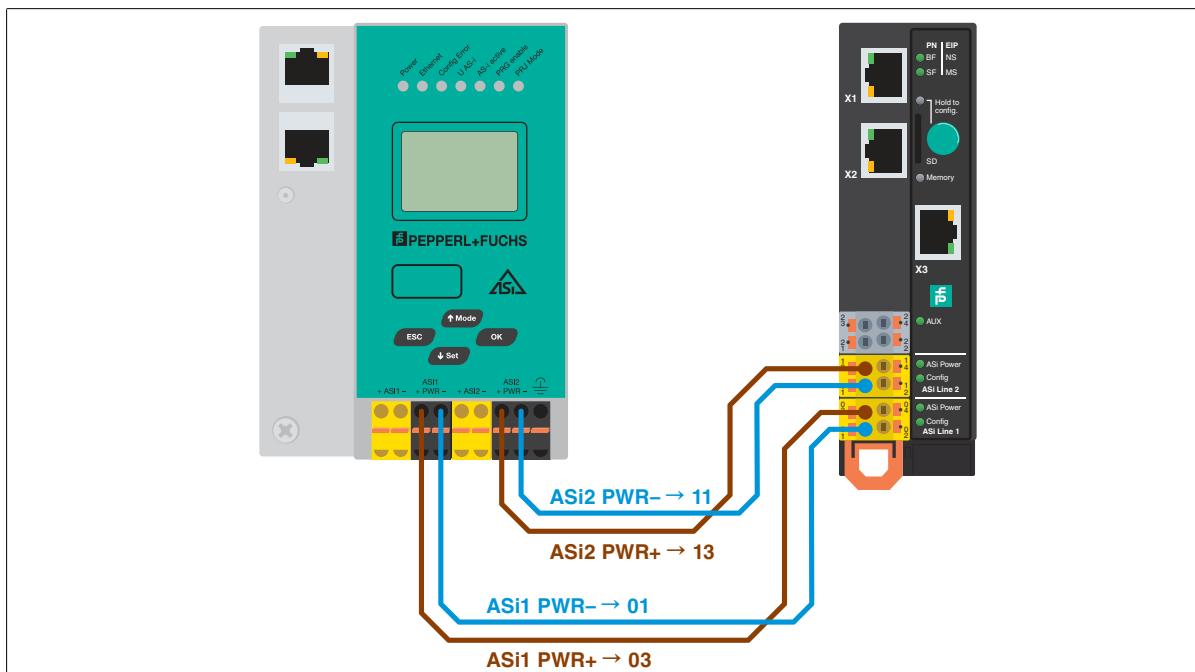


Figure 3

### ASi Network



#### Change ASi network to VBG-EP1-KE5-D

1. Take the connectors of the ASi network out of the K20 sockets ASi +/-.
2. Plug the connectors for the ASi network into the sockets 04 and 02.

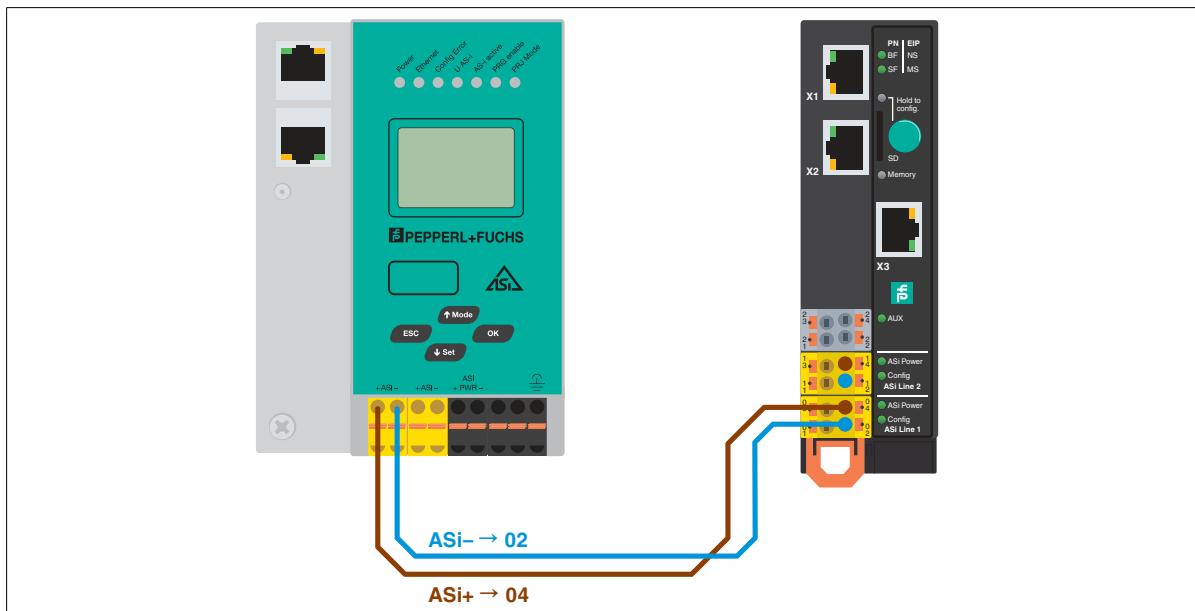


Figure 4



#### Change ASi network to VBG-EP1-KE5-DMD

1. Take the connectors of the ASi network 1 and 2 out of the K20 sockets ASi1 +/- and ASi2 +/-.
2. Plug the connectors for ASi network 1 into the sockets 04 and 02 for ASi network 2 into the sockets 14 and 12.

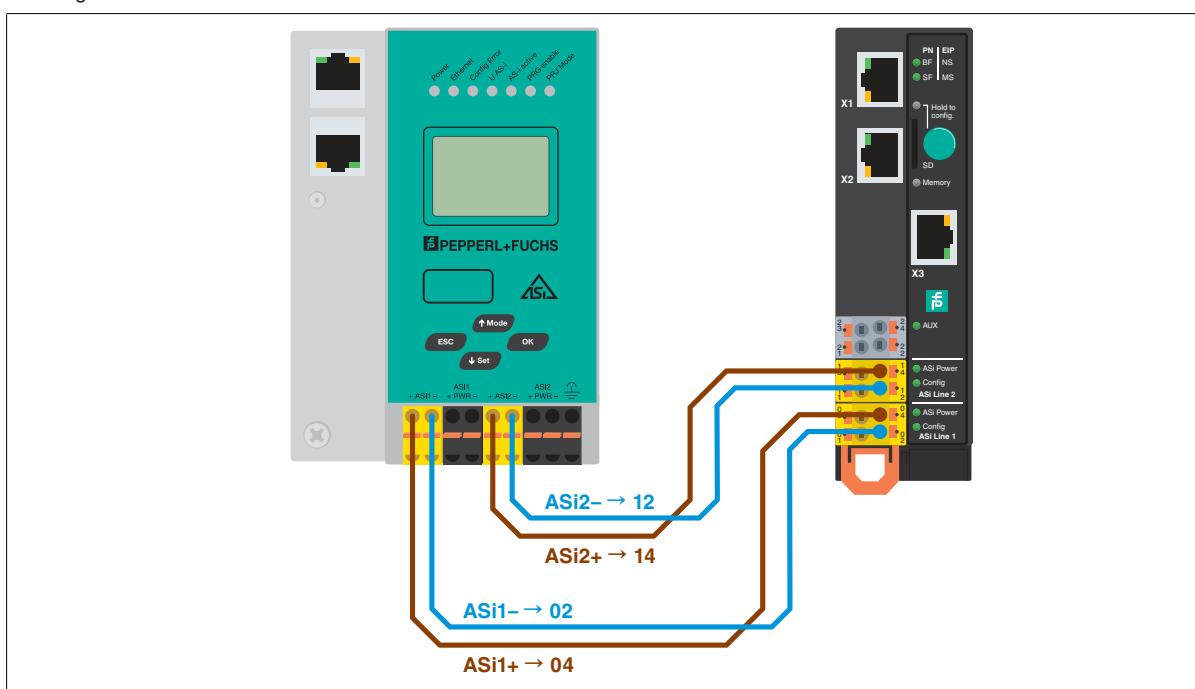


Figure 5

# Brief Instructions

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## Transfer Configuration



### Store ASi configuration on KE5 gateway

1. Connect the VBG-EP1-KE5-D\*, see chapter .
2. Press and hold the pushbutton for 5 seconds.
  - ↳ The ASi 1 LEDs flash yellow.
  - ↳ The configuration of the ASi network 1 can be saved.
3. Press and hold the pushbutton for 5 seconds.
  - ↳ The Memory LED flashes green
  - ↳ The configuration of ASi network 1 is stored.



#### Note

Switching between ASi network 1 and 2 at VBG-EP1-KE5-DMD

4. Press the pushbutton briefly.
  - ↳ The ASi 2 LEDs flash yellow.
  - ↳ The configuration of the ASi network 2 can be saved.
5. Press and hold the pushbutton for 5 seconds.
  - ↳ The Memory LED flashes green
  - ↳ The configuration of ASi network 2 is stored.



#### Note

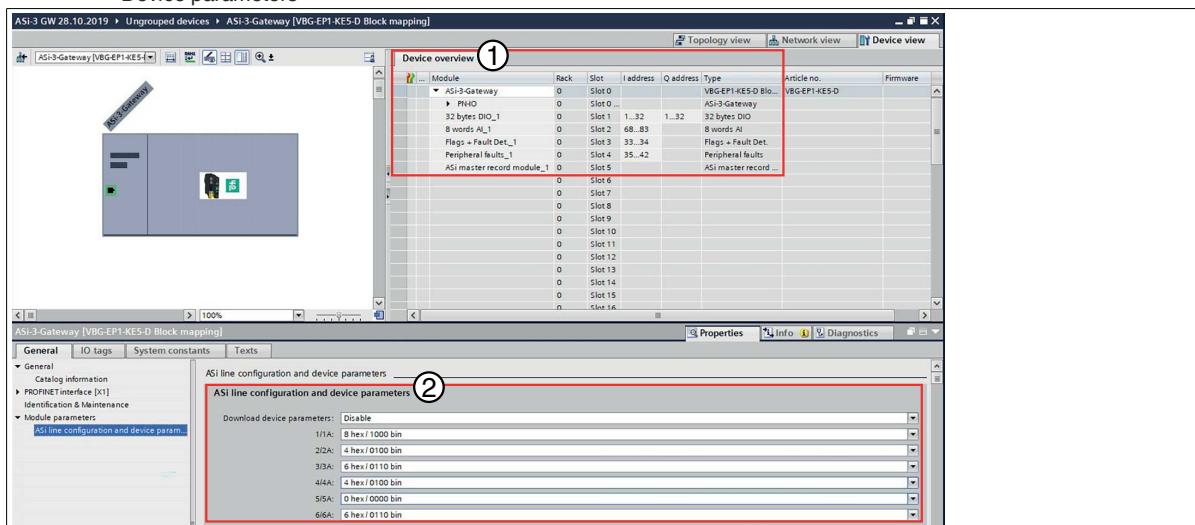
The device reboots automatically after saving the configuration.

## PROFINET Integration

### Save the configuration of the K20 gateway

Before you add the KE5 gateway to your PROFINET project, save the relevant configurations of the K20 gateway, e.g. by taking a screenshot:

- Station name
- Data image
- Device parameters



1. Data image
2. Device parameters



### Import GSD file

1. Download the matching GSD file for your device from our website.  
VBG-EP1-KE5-D  
VBG-EP1-KE5-DMD
2. Install the GSD file in the TIA Portal via "Options/Manage general station description files (GSD)"



## Add VBG-EP1-KE5-D\* to the PROFINET controller

1. Remove the K20 gateway from the network.
2. Add the new KE5 gateway to the PROFINET controller.

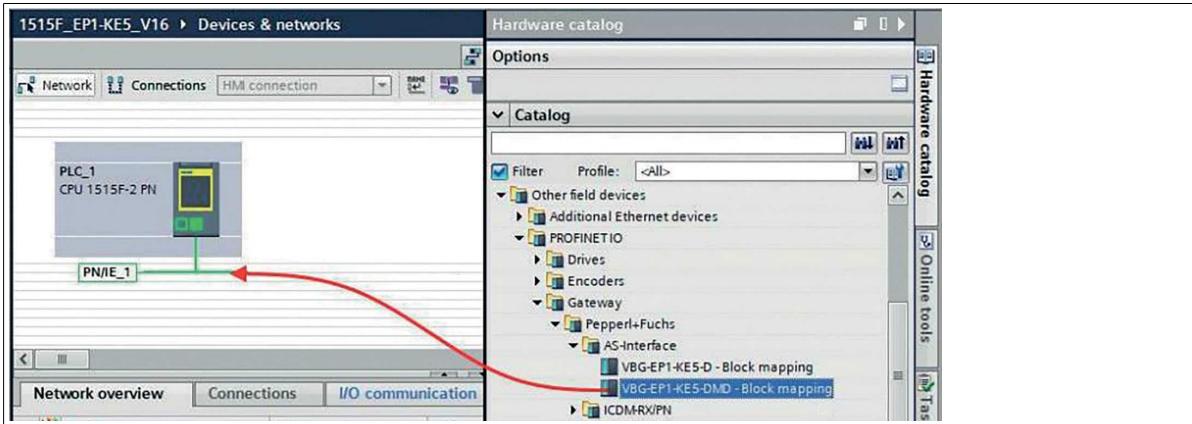


Figure 6



## Assign PROFINET station name

1. Assign the station name of the K20 gateway to the VBG-EP1-KE5-D\*.



## Configuration of the data image and device parameters

1. Enable "Download device parameters" and adjust the ASi device parameters to match those of the previously used K20 gateway.

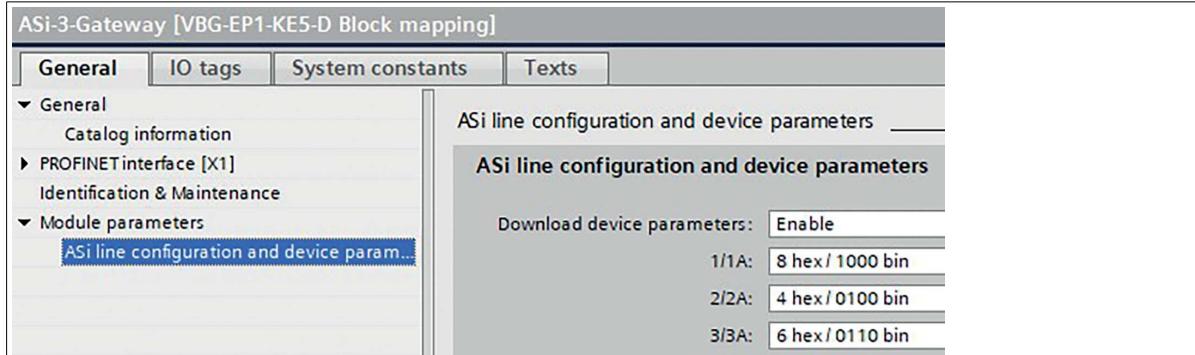


Figure 7

2. Add the data image from the K20 gateway to the new VBG-EP1-KE5-D\*.

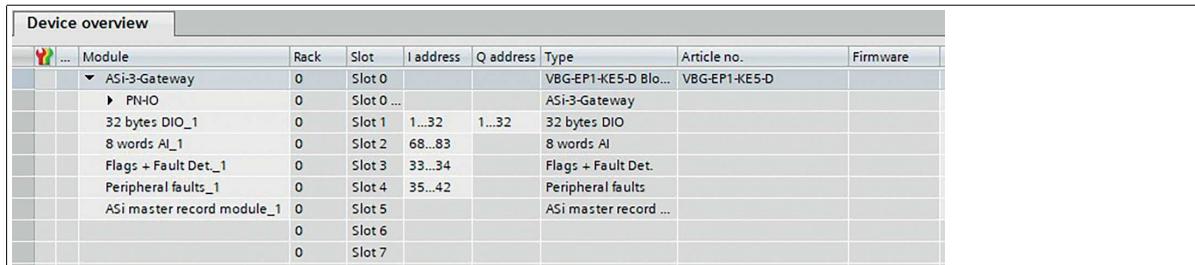


Figure 8



### Note

If you want to use analog devices after adding the data image, you need to adjust the device parameters of the respective address to the previously used settings.



## Go Online

1. Press "Go Online" in the TIA Portal and you are done.  
→ Now you can benefit from all the advantages of the new KE5 ASi gateway.