

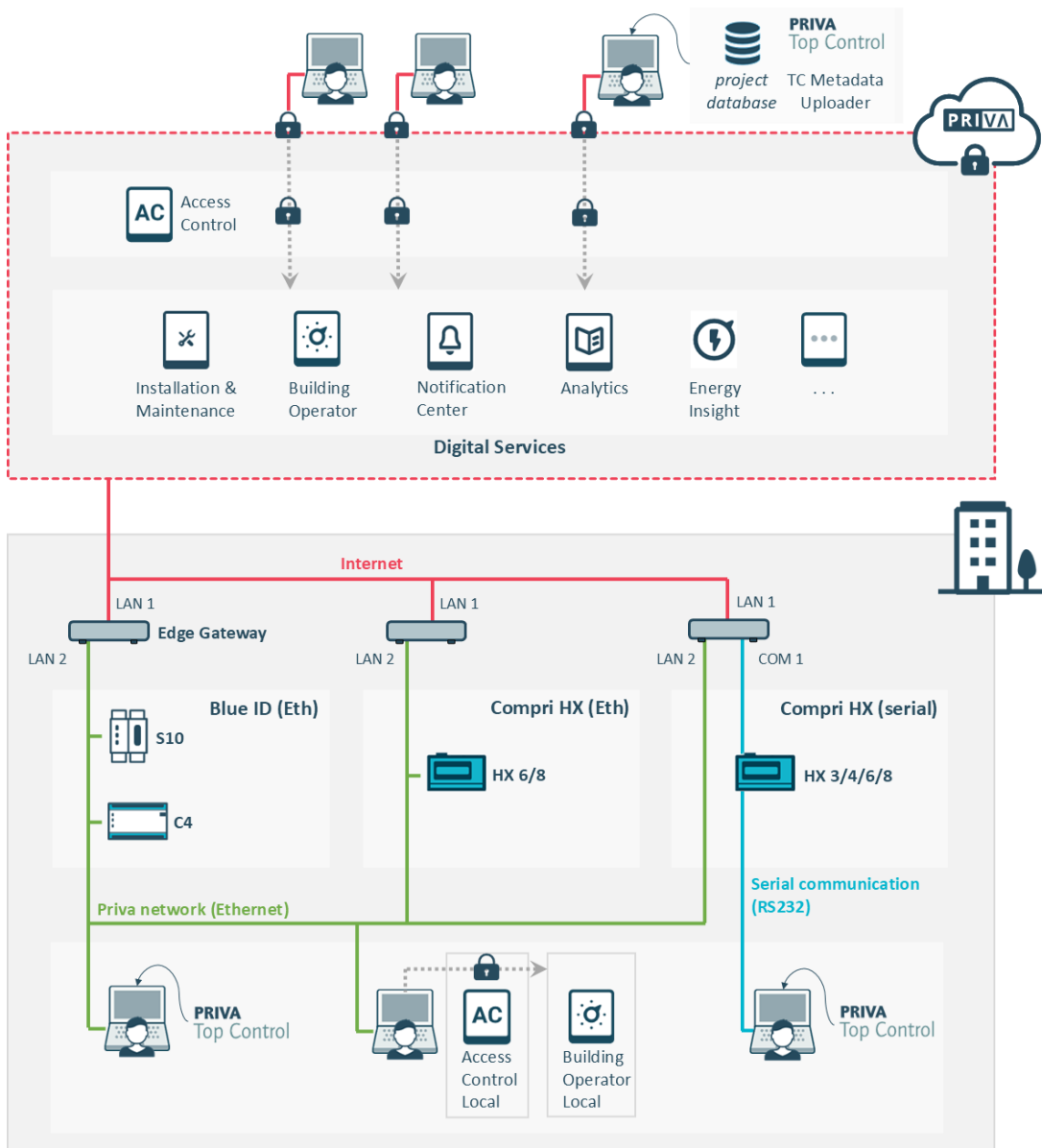
Priva Edge Gateway installation sheet

The Edge Gateway enables secure communication between the Priva hardware and the Priva Cloud for the use of Priva Digital Services. Install, register, and configure the Edge Gateway and upload the project's metadata to the cloud according to the steps in this document.

The following figure shows schematically how to connect the Edge Gateway. A distinction is made between a Blue ID Ethernet network, a Compri HX Ethernet network and a serial connection. For a serial connection, the black Edge Gateway is required (item number: 5200007). Compri HX 3 and 4 only support serial communication. Compri HX 6 and 8 support both communication via Ethernet and serial communication.

Each project requires a separate Edge Gateway. Also for a project that combines Blue ID and Compri HX hardware, two Edge Gateways are needed.

The illustration shows the recommended network configuration where the Priva network is separated from the Internet. If the networks are not separated, connect the network to LAN 2. Keep in mind that it poses security risks if the Priva network is not separated from the Internet.



The Priva Digital Services are supported for Priva Blue ID and Compri HX hardware. Compri TC hardware is not supported.

The Edge Gateway is supplied in two versions. This document is applicable for both versions.



Priva Edge Gateway

Article number: 5200007



Priva Edge Gateway NA347

Article number: 5200015

Step-by-step plan

1. [Install and connect Edge Gateway \(page 3\)](#)
2. [OPTIONALLY: Configure Edge Gateway locally \(page 6\)](#) *
* *You can skip this chapter if you have a separated network with DHCP on the local network (Internet).*
3. [Register Edge Gateway \(assign site\) \(page 7\)](#)
4. [Upload project metadata to the cloud \(page 7\)](#)
5. [Configure Edge Gateway \(page 7\)](#)
6. [Done! What's next? \(page 7\)](#)

Before you start

- Be sure that you have the following permissions in Access Control (via [My Priva](#)):

Access to the site (the project)
and for this site the following permissions:

Cloud Operator: ✓ Metadata Upload
Installation & Maintenance: ✓ Manage Devices
✓ Site Access

- Make sure you have configured and commissioned the TC 6 or TC 8 project as described in the [Priva Help Center](#).



Are you going to replace a gateway? Then you must first deregister the current gateway:

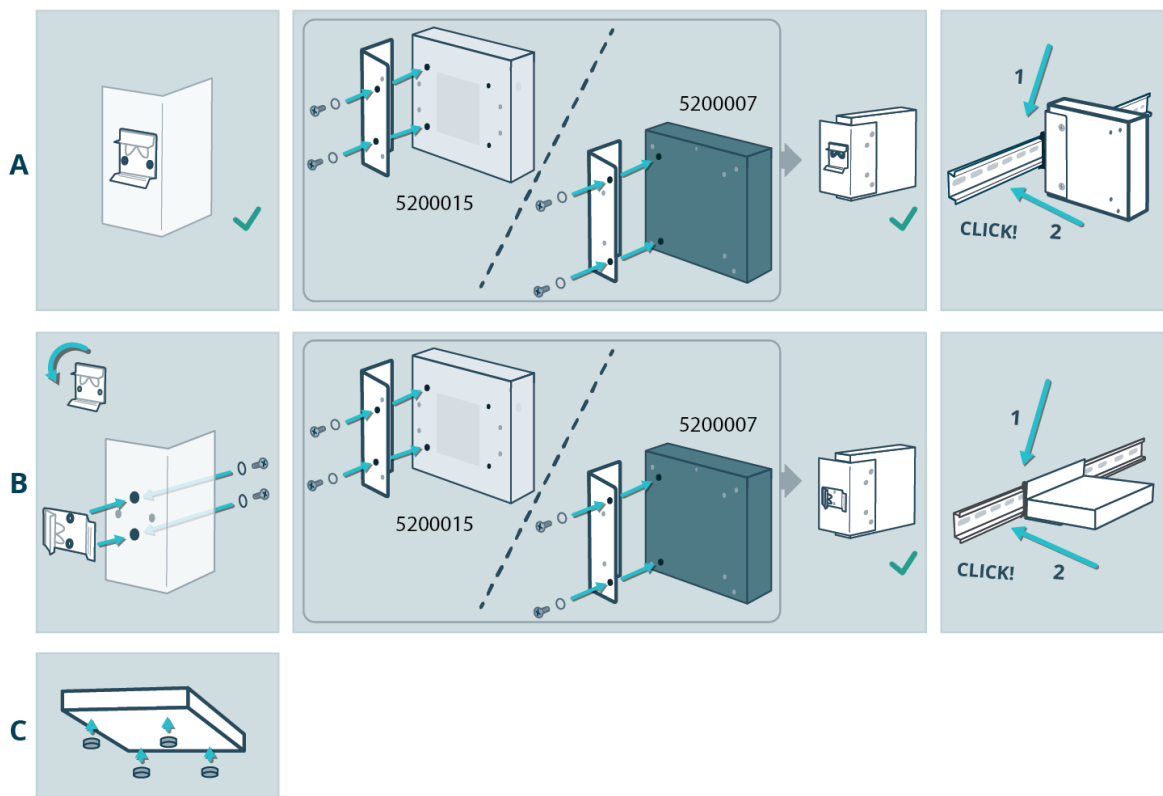
- Are you replacing a Cloud Connector?
Once you register the Edge Gateway in Installation & Maintenance (Chapter [Register Edge Gateway \(assign site\) \(page 7\)](#)), the Cloud Connector is detected and you can delete it. You can also deregister the Cloud Connector via the Cloud Connector Setup (via the Internet browser on the desktop).
- Are you replacing an Edge Gateway?
Deregister this gateway by deleting the device in Installation & Maintenance.

Install and connect Edge Gateway

- ! Is the Priva network not separated from the Internet? Be aware that this poses security risks. Do you have a separate network? Never connect the Priva network and the Internet to the same LAN port (according to the instructions in this chapter).

1. Mount / place the gateway:

- **A / B:** Vertically or horizontally on the DIN rail.
To attach the mounting plate, use the supplied screws (gateway 5200015) or the screws already in the corresponding holes (gateway 5200007).
Please note: If you do not use these screws, use screws with a maximum length of 8 mm to prevent damage to the printed circuit board.
- **C:** On the rubber feet.

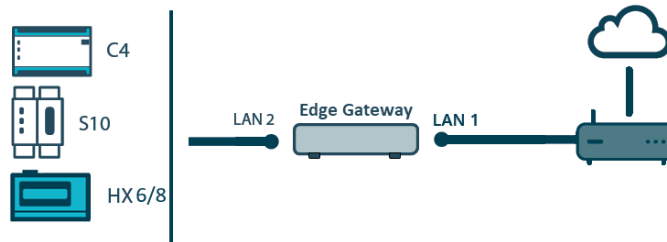


2. Connect the power supply:

- Connect the 12 VDC power supply to the gateway.
- If the gateway does not switch on automatically (see power LED), press the power on/off button.

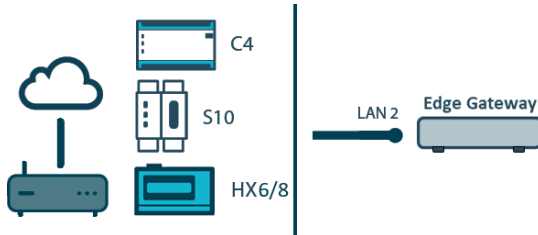
3. Connecting the Internet and the Priva network:

- Separate Ethernet network:



- Connect LAN 1 to the Internet.
- Connect LAN 2 to the Priva network.

- Non-separated Ethernet network:



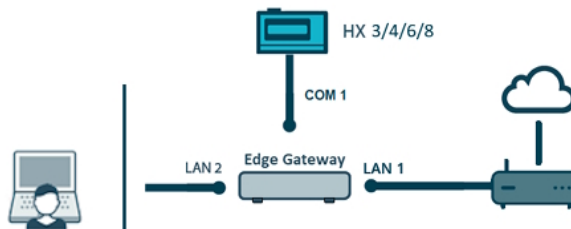
- Connect LAN 2 to the Priva network which also has Internet.

- Serial:

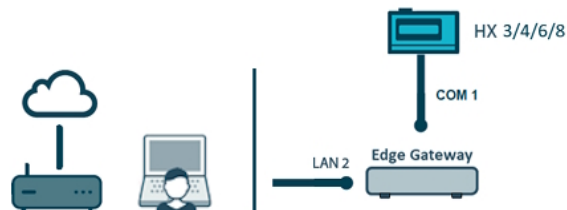
For a serial connection, the black Edge Gateway is required (item number: 5200007).

- Connect LAN 1 or 2 to the Internet, depending on whether you place the operating PC in the Internet network or in a separate network. Please note that the operating PC in the Internet network poses security risks, and with the PC in a separated network, Building Operator Local Fallback and Historian will not work if only LAN 1 is used.

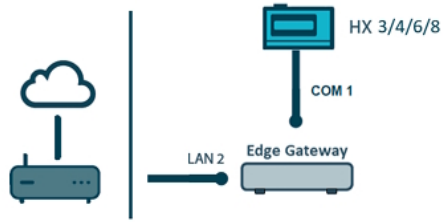
- Operating PC in separate network:
Connect LAN 1 to the Internet.
Connect LAN 2 to the operating PC.



- Operating PC in the Internet network:
Connect LAN 2 to the Internet and the operating PC.



- No operating PC connected:
Connect LAN 2 to the Internet.



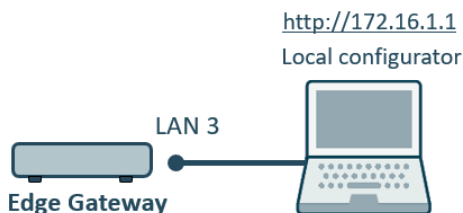
- b. Connect COM 1 to the Compri HX (Network manager). To do this, use the Compri HX - PC (9P) cable (item number: 160178).
4. Check that the LEDs of the LAN ports are lit:
 - The right LED indicates whether the gateway is properly connected to the Priva network and should be solid green or orange.
 - The left LED indicates whether there is network activity and should flash orange.



OPTIONALLY: Configure Edge Gateway locally



You can skip this chapter if you have a separated network with DHCP on the local network (Internet). Because you can create the IP settings for this network configuration in Installation & Maintenance.



To configure the gateway locally, connect your computer to the service port (LAN 3) of the gateway.

Access the local configuration application:

1. Configure your computer's Ethernet port to:
IP address: 172.16.1.*** (where *** must be a free number between 2 and 254)
Subnet mask: 255.255.0.0
2. Connect the Ethernet port of your computer to LAN 3 (service port) of the gateway.
3. Open a browser on your computer and go to <http://172.16.1.1>
4. Sign in using:
Username: Supervisor
Password: 1234
Note: the username 'Supervisor' is capitalised.
The user administration of the local configuration application opens.
5. Create one or more users.
6. Sign out.
7. Sign in with one of the user accounts you just created.
The local configuration application opens.

Configure the gateway in the local configuration application:

1. Configure the IP settings for LAN 1 and LAN 2.
Refer to table [IP settings \(page 8\)](#) for explanatory notes.
2. If you have a local time server, enter the IP address of this server. By default, the public NTP server is set to 0.pool.ntp.org.
3. If you access the Internet via a mobile connection (such as 4G or 5G) or via VPN, change the MTU setting from 1500 to 1370.



It is already possible to configure proxy settings. However, these settings are not yet operational.

Register Edge Gateway (assign site)



Registering the gateway means assigning it to a site.

Register the gateway in Installation & Maintenance:

1. Scan the QR code found on the gateway (or go to the URL below the QR code) and follow the steps in Installation & Maintenance to register the gateway.
Wait for the gateway to be in 'Online' status in Installation & Maintenance.

Upload project metadata to the cloud

Upload the metadata of the Top Control project to the cloud:

1. Follow the steps in the article [Upload metadata to the cloud](#) on the Priva Help Center.

Configure Edge Gateway



If you have configured locally using the service port (LAN 3), you have already carried out the steps marked with an asterisk (*) in the local configuration application.

Configure the gateway in Installation & Maintenance:

1. * Configure the IP settings for LAN 2.
Refer to table [IP settings \(page 8\)](#) for explanatory notes.
2. Set the time zone.
3. * If you have a local time server, enter the IP address of this server. By default, the public NTP server is set to 0.pool.ntp.org.
4. * If you access the Internet via a mobile connection (such as 4G or 5G) or via VPN, change the MTU setting from 1500 to 1370 via the local configuration application (see Chapter [OPTIONALLY: Configure Edge Gateway locally \(page 6\)](#)).
5. Configure the Top Control project:
 - Enter supervisor login details of the project (username, password).
 - Priva Blue ID: Enter the IP address of the primary controller.
(For Compri HX, connected via ethernet to the Edge Gateway, the connection is not set in Installation & Maintenance but via the TC Metadata Uploader. Enter the controller number of the Network manager.)

Done! What's next?

The Edge Gateway is now ready for use! The Priva Digital Services can now be used.

Give users access to the Digital Services in Access Control:

Using Access Control, you grant users rights to use the Digital Services for the site at which this Edge Gateway is installed.

Stay up-to-date:

- Keep the gateway up-to-date in Installation & Maintenance.
You can do this manually when an update is available, or you can enable automatic module updates via the *Settings* tab.
- When changes are made in the Top Control project, upload the metadata again using the TC Metadata Uploader.

More information is available in the [Priva Help Center](#).

IP settings

For the 6 possible network configurations (A to F), the table shows which IP settings must be filled in or left blank. B, C, D and F can only be configured locally via the service port (LAN 3). If the data are not known to you, request them from the IT department.

IP settings

	A		B		C	D	E	F
Communication Priva hardware	Ethernet (separate network)				Ethernet (non-separated network)		Serial	
DHCP on local network (Internet)?	√		-		√	-	√	-
IP setting	LAN 1	LAN 2	LAN 1	LAN 2	LAN 2	LAN 2	LAN 1/2	LAN 1/2
Connected network	Internet	Priva	Internet	Priva	Internet & Priva	Internet & Priva	Internet	Internet
DHCP	On	Off	Off	Off	On	Off	On	Off
IP address	- ³	m ¹	m ¹	m ¹	- ³	m ¹	- ³	m ¹
Subnet mask	- ³	m	m	m	- ³	m	- ³	m
Default gateway ⁴	- ³	-	m	-	- ³	m	- ³	m
DNS	- ³	-	m	-	- ³	m	- ³	m
DNS 2, DNS 3, ...	- ³	-	o ²	-	- ³	o ²	- ³	o ²

m: mandatory field | o: optional field | -: do not fill in field or no field available

¹ IP address requirements:

- The IP address must be available.
- Configure the IP addresses of LAN 1 and LAN 2 so that the three LAN ports are in different IP address ranges. LAN 3 has the fixed IP address 172.16.1.1.
- Configure the IP address of the Priva network in the range containing the IP address of the primary controller (only for Priva Blue ID).
- Do not use IP address range 172.23.105.0/24. This because this range is already used internally in the Edge Gateway.

² Ask the IT department if this field needs to be filled in.

³ These settings are obtained via DHCP and should therefore not be entered manually.

⁴  Never enter the default gateways of both LAN ports (LAN 1 & LAN 2).