



Integrate ProLink CMS & SmartCheck to OPTIME

ProLink & SmartCheck goes OPTIME!

We pioneer motion

In 3 steps to the connection - *See following slides for details*

once

Decide on a connection solution – align with your IT: enable an existing network or set up a separate network solution

1

Send us your OPTIME organization ID and the serial numbers of the SmartCheck and ProLink systems you want to connect.

- Device serial number (starts with f4:3d:80:...) is printed to the devices or can be found from the Schaeffler SmartWeb

2

You will get a SCOF file from Schaeffler IoT delivery Team.

Upload a configuration file (SCOF - Schaeffler Cloud Onboarding File) to the device via Schaeffler SmartWeb

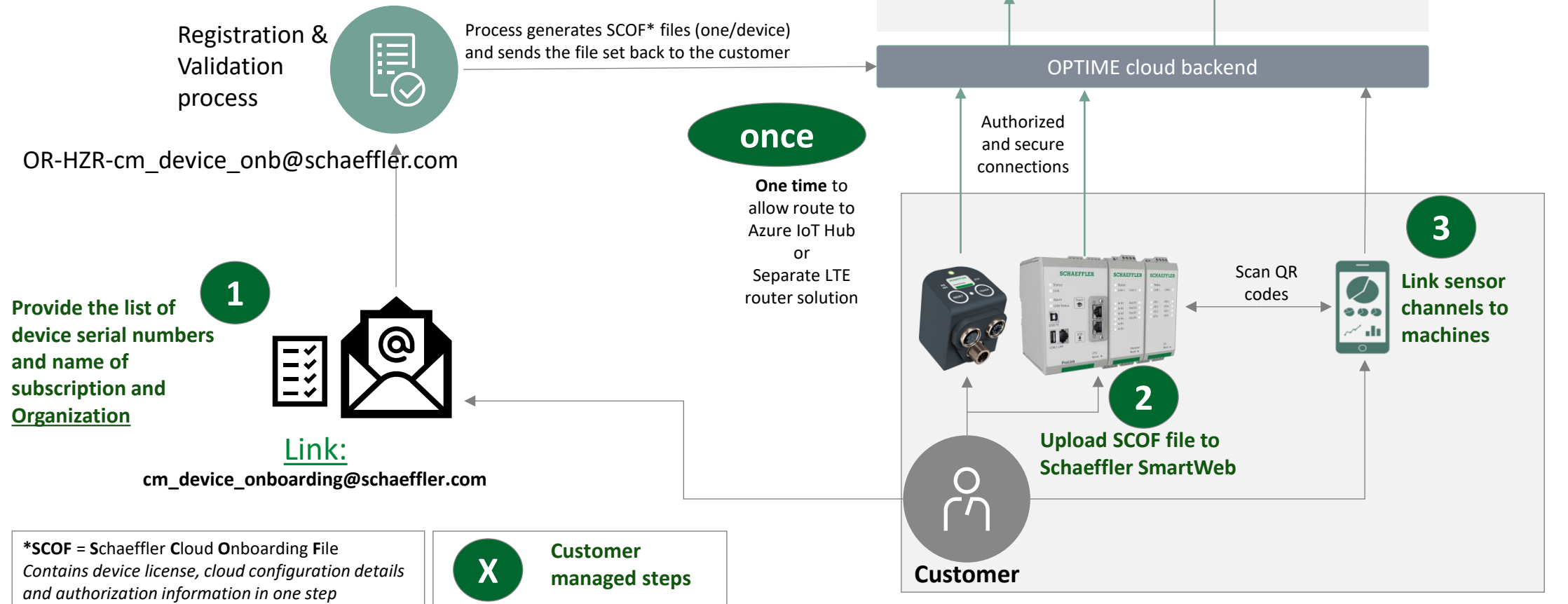
3

Use the OPTIME mobile app with the QR codes in SmartWeb to map the new devices or sensors into your OPTIME asset structure

Customer one-pager: Onboarding procedure end-to-end

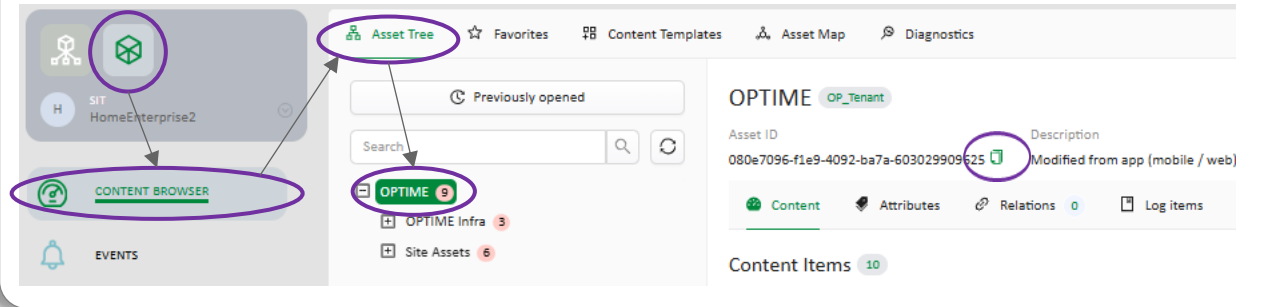
Precondition: Schaeffler OPTIME organisation and service contract is in place

No Schaeffler OPTIME organisation yet? Please contact us at optime@schaeffler.com

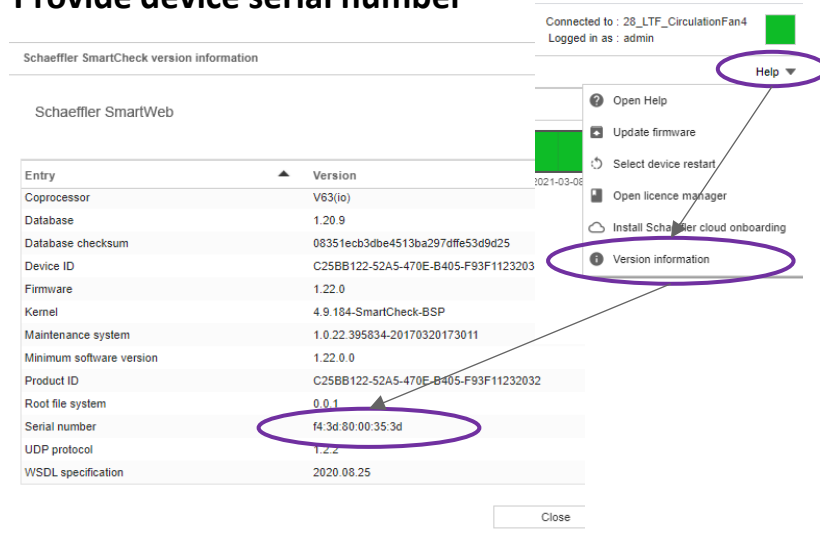


Details on step 1: Provide the list of device serial numbers and Organization ID

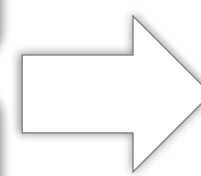
OPTIME: Provide organization ID



SmartWeb software of SmartCheck/ProLink: Provide device serial number

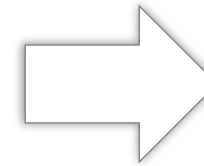


Device serial number (starts with f4:3d:80:...) is also printed on the device label.



Link:

cm_device_onboarding@schaeffler.com

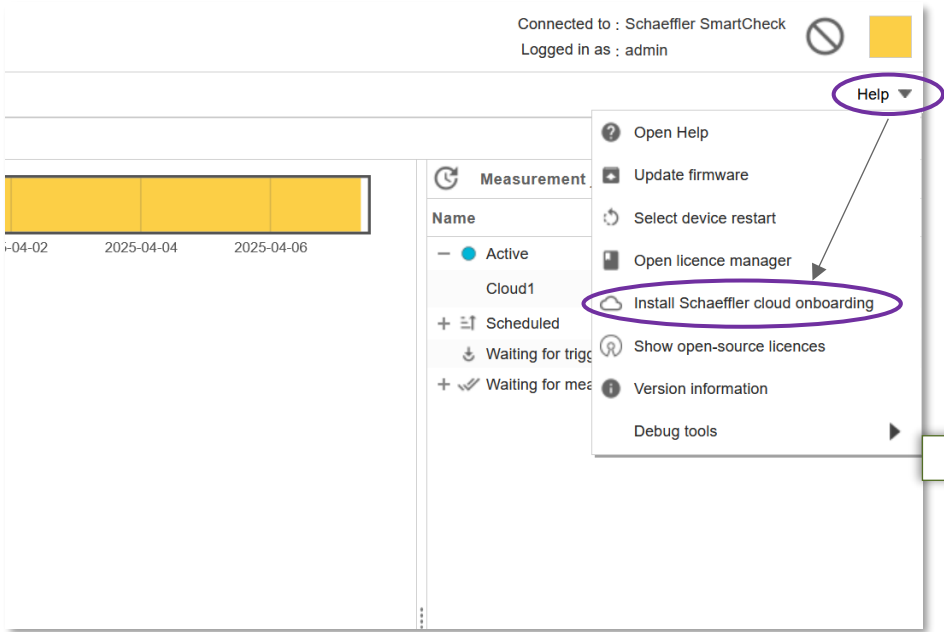


Process generates SCOF* files (one/device) and sends the file set back to the customer

***SCOF = Schaeffler Cloud Onboarding File**
Contains device license, cloud configuration details and authorization information in one step

Details on step 2: Upload SCOF file to Schaeffler SmartWeb

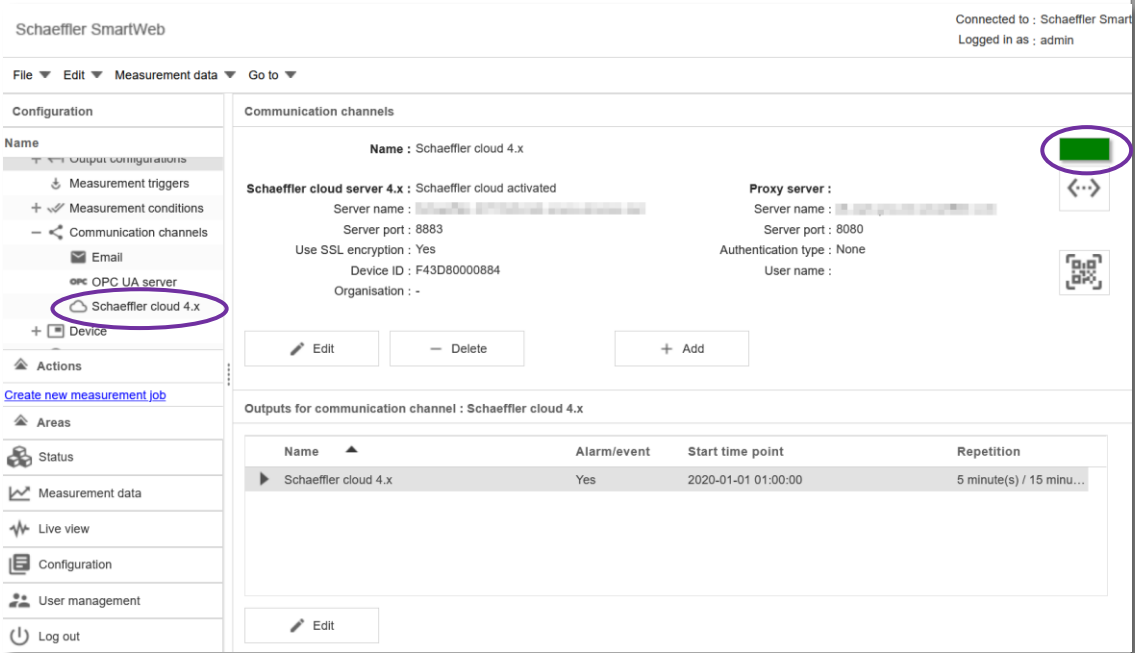
SmartWeb software of SmartCheck or ProLink:
Select Help → Install Schaeffler cloud onboarding
Upload the SCOF file to SmartWeb



This installs the new communication channel Schaeffler cloud 4.x and for each vibration channel a Schaeffler cloud services measurement job, which is added to the outputs for the communication channel.

A green status is shown, when the connection is up and running.

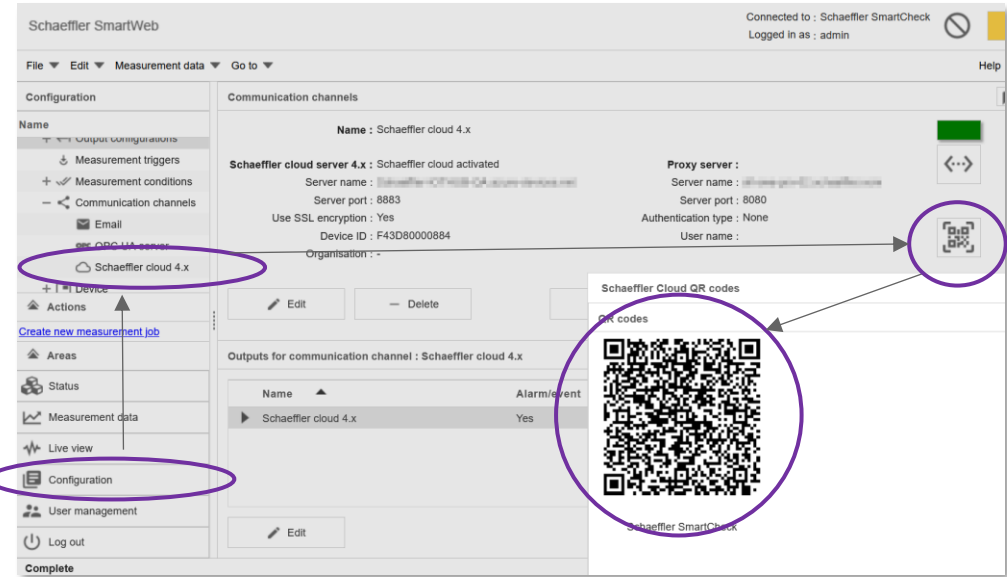
Depending on the network, in which the ProLink or SmartCheck is installed, a proxy server should be configured.



Details on step 3: Link sensor channels to machines

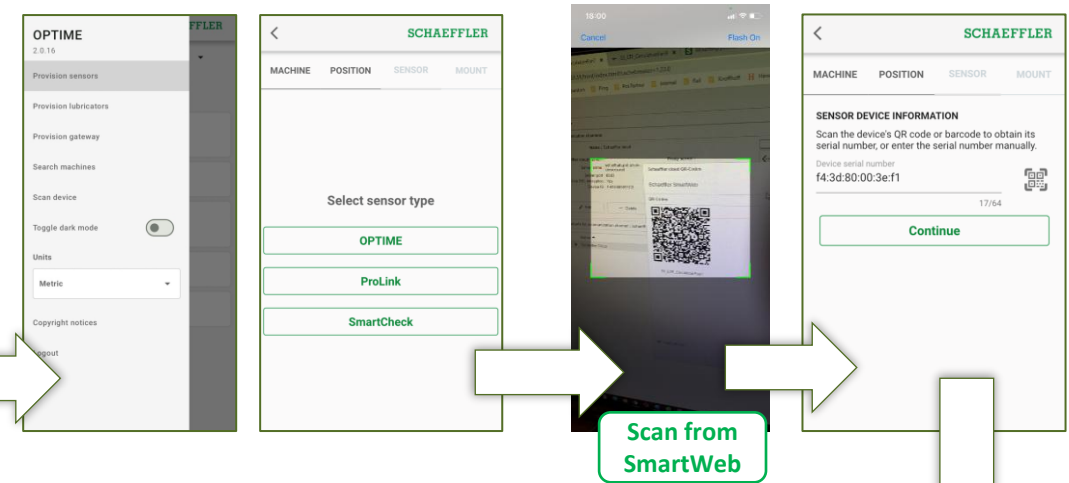
3

SmartWeb software of SmartCheck or ProLink: **After upload Schaeffler Cloud job and communication channel are visible**

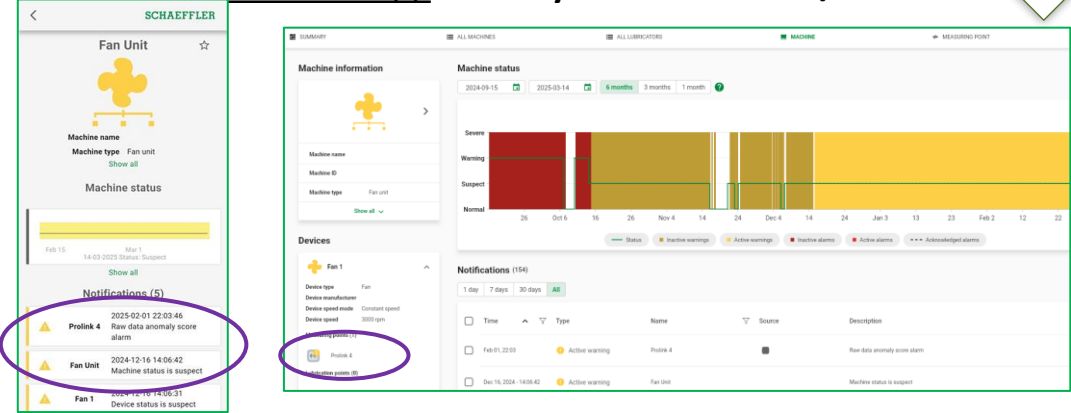


In case of ProLink, a QR code is displayed for each vibration channel
In case of SmartCheck, only one QR code

OPTIME mobile app: **Onboard channels to OPTIME organization**



OPTIME dashboard and app: **Check your new sensors/data**



Decide what KPIs and time signals should be transferred

Click to: communication channels.

- ➔ Schaeffler cloud 4.x
- ➔ Edit (on bottom left)

Here you can decide what measurement job should be transferred

Time intervall is defined as default:

- Every 4 hours one set KPI
- Every 24 hours one time signal

What measurement jobs will be transferred?:

- Base configuration
- Fan
- Gear stage
- Machine essentials
- Pump
- Roller bearing

Configuration

Name

- Configuration
- Input configurations
- Measurement jobs
- Output configurations
- Measurement triggers
- Measurement conditions
- Communication channels
- EtherNet/IP
- OPC UA server
- Schaeffler cloud 4.x
- Device
- Bearings
- Bearing manufacturer

Edit outputs

Steps

1: Select data

2: Configure message trigger

Name : Schaeffler cloud 4.x

Transfer interval : 4 hour(s)

Measurement jobs	Transfer	Time signals
Base configuration (F4:3D:80:12:01:61) (Vibration sensor 1)	☒	☒
Base configuration (F4:3D:80:12:01:61) (Vibration sensor 2)	☒	☒
Base configuration (F4:3D:80:12:01:61) (Vibration sensor 3)	☒	☒
Base configuration (F4:3D:80:12:01:61) (Vibration sensor 4)	☒	☒
Fan	☒	☒
Gear stage	☒	☒
Machine analysis essentials	☒	☒
Pump	☒	☒
Roller Bearing	☒	☒
Schaeffler cloud (F4:3D:80:12:01:61) (Vibration sensor 1)	☒	☒
Schaeffler cloud (F4:3D:80:12:01:61) (Vibration sensor 2)	☒	☒
Schaeffler cloud (F4:3D:80:12:01:61) (Vibration sensor 3)	☒	☒
Schaeffler cloud (F4:3D:80:12:01:61) (Vibration sensor 4)	☒	☒

Description

Select the data to be sent with the cloud message here.

Settings

Back Next Finish Cancel

Outputs for communication channel : Schaeffler cloud 4.x

Name

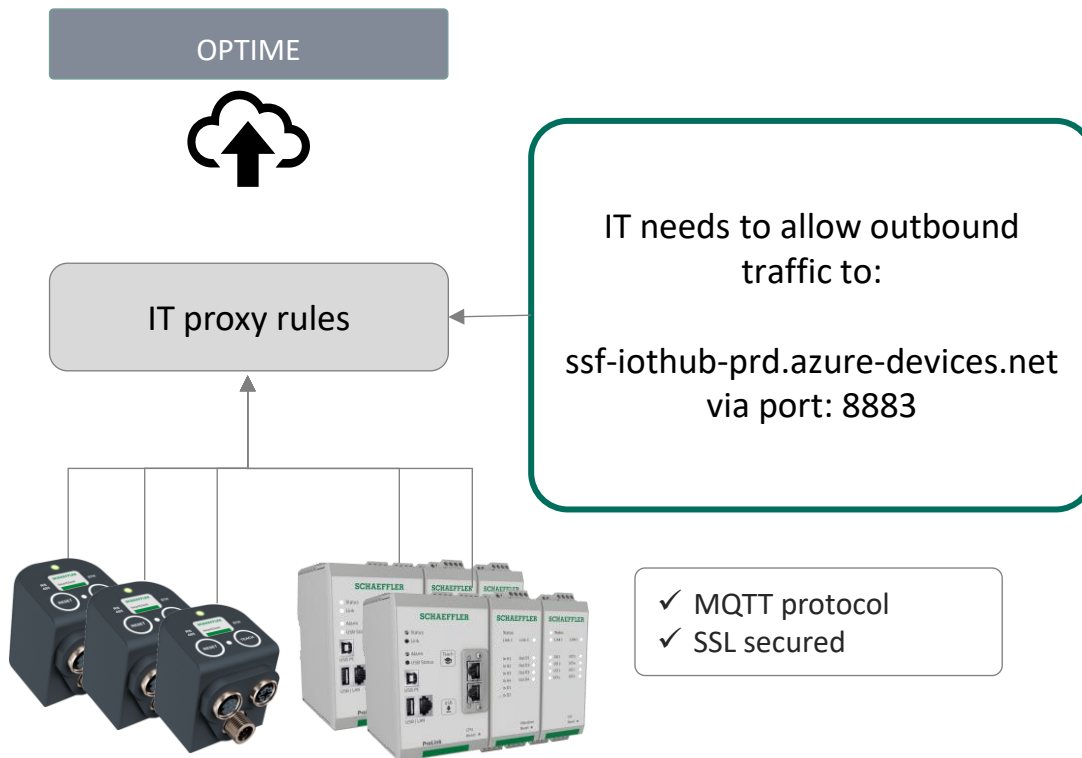
Schaeffler cloud 4.x

Edit

Details on step **once** Proxy setup or Separate LTE router solution

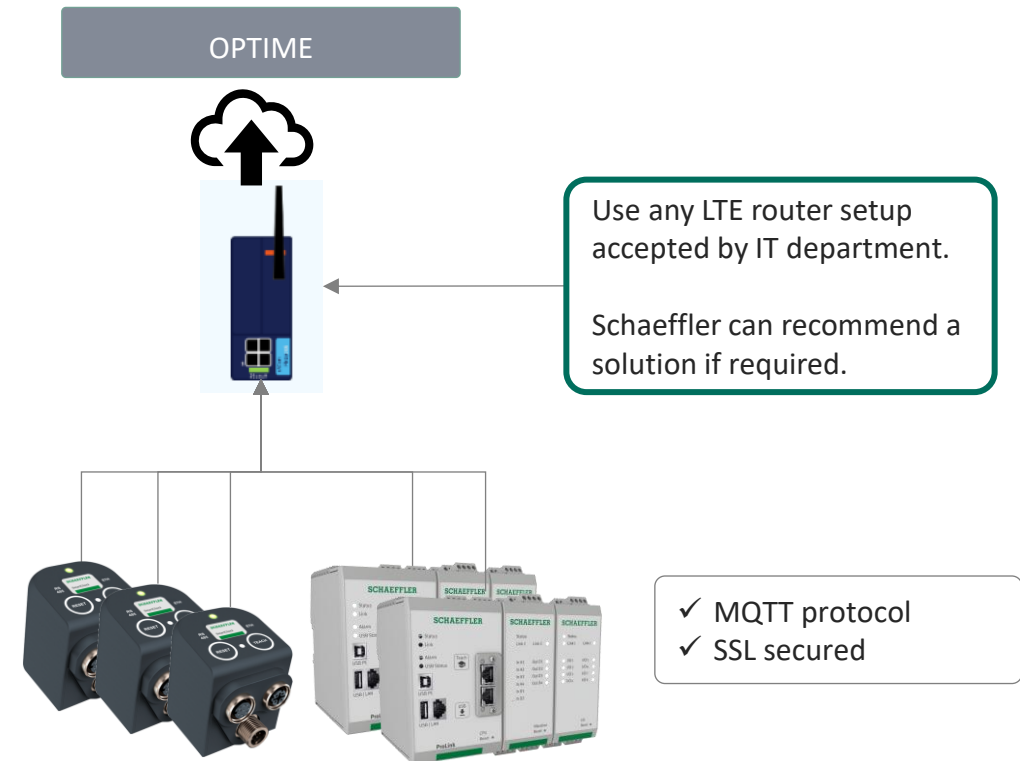
Proxy setup in customer IT solution:

- IT can fully control traffic by proxy based limited permissions
- Reuse existing IT infrastructure
- Only encrypted outbound traffic!



Separate LTE router solution:

- Separate network / LTE router setup
- No interference in the existing IT infrastructure
- Only encrypted outbound traffic!



⚠ For LTE router setup only:

To complete the connection, go to Schaeffler SmartWeb → Edit → Edit network settings and add IP address, DNS server and host name following the guide of your router.