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Control and Connectivity System overview

Operation Concept and Control Devices

Option Box

KNX

Internet based connectivity

- ComfoConnect LAN C
- ComfoAir Q App
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- ComfoSystems Webportal – Customers

Control and Connectivity Compatibility Overview

Zehnder ComfoConnect KNX C

- KNX connectivity for ComfoAir Q
- Same box and design as the ComfoConnect LAN C
- Dimensions: 120 x 76 x 24 mm
- Powered by ComfoNet.



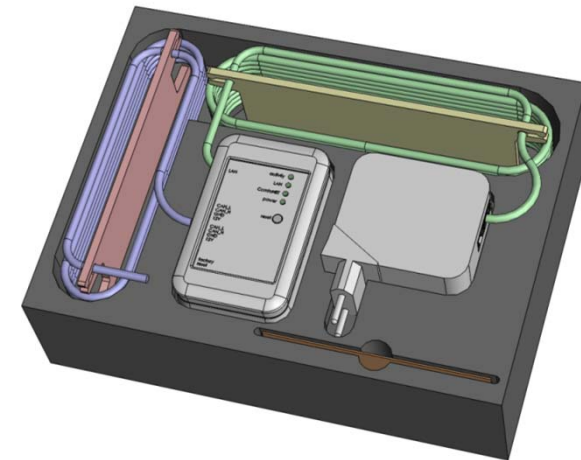
Zehnder ComfoConnect LAN C

- The gateway-only package for local and remote use of the Zehnder control App for ComfoAir Q
- Dimensions: 120 x 76 x 24 mm,
- No cables included
- Powered by ComfoNet,
- Typical use: fixed installation together with a ComfoAir Q installation in a house/dwelling.



Zehnder ComfoConnect LAN KIT C

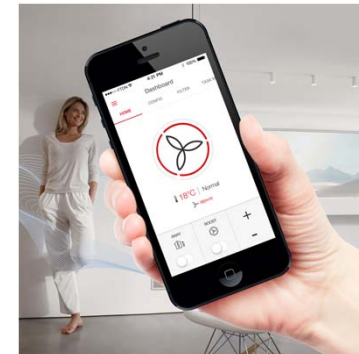
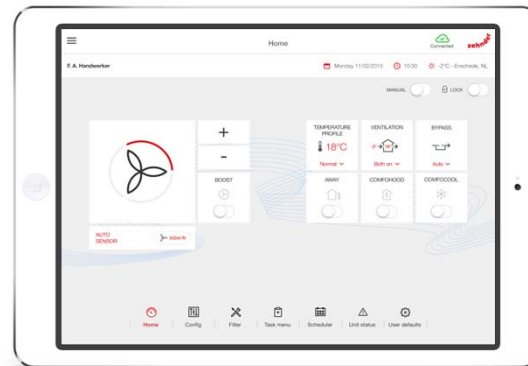
- All-in-one toolbox for installation and service of ComfoAir Q, like:
 - Commissioning,
 - Reading out and writing installer settings,
 - ComfoAir Q firmware update,
- With the ComfoConnect LAN KIT C the installer/service person can use all app functions independent from locally available/unavailable gateways and/or LAN/Wifi networks.
- Delivery includes everything needed except the phone/tablet: a ComfoNet cable, a LAN cable, a ComfoConnect LAN C gateway and a Wifi-router.
- Dimensions: 336 x 300 x 148mm,
- Weight 2,350 kg



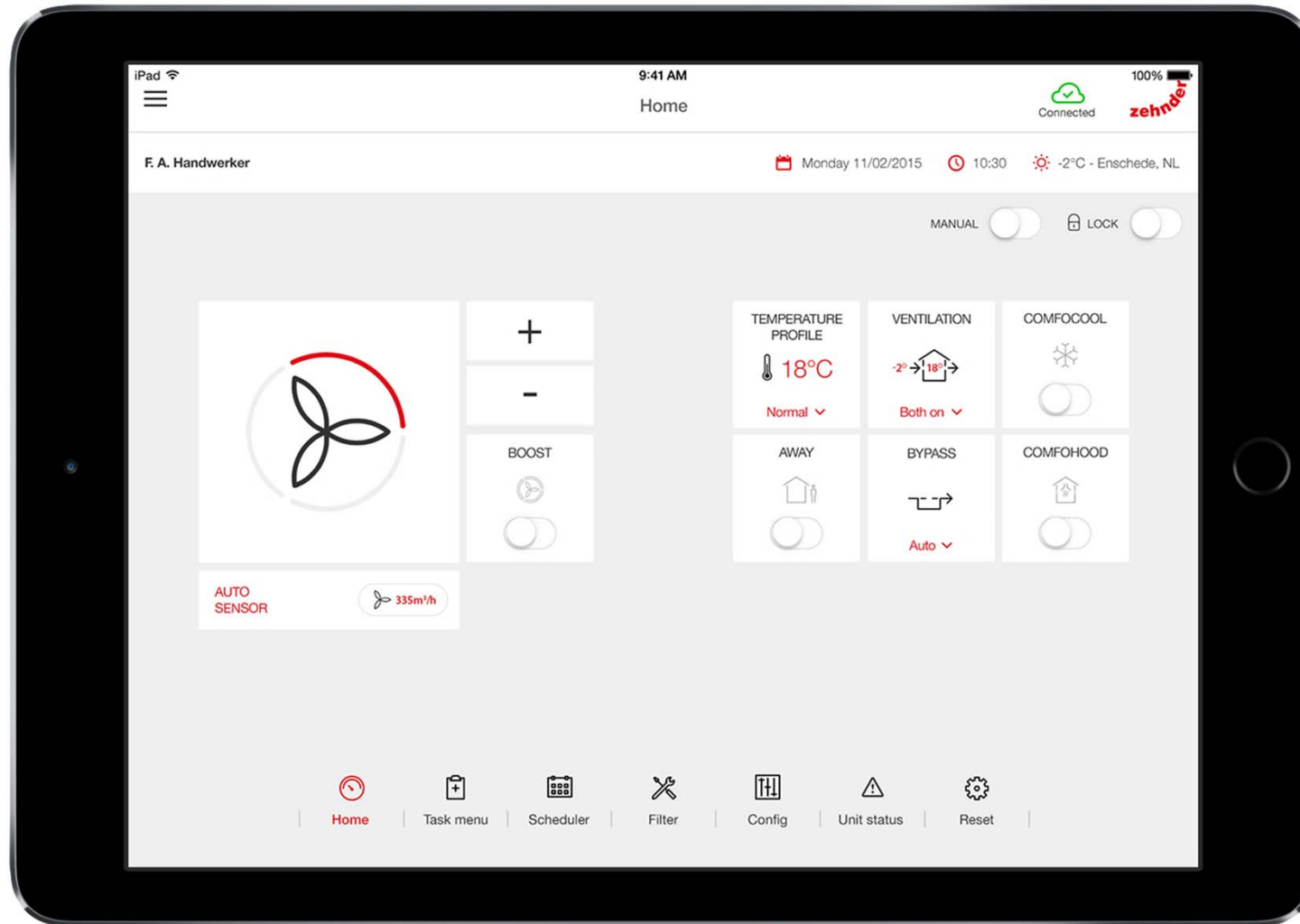
Zehnder Control App

- Operate your ComfoAir Q at home or on the road with the Zehnder Control App
- All ventilation system functions can be accessed right down to the last detail.
- In-App commissioning wizard
- ComfoAir Q software update via the App
- Read out, save and send unit data (documentation, service)
- No password or subscription required for end-user.
- Data protection is foreseen by encryption and blocking outside access.

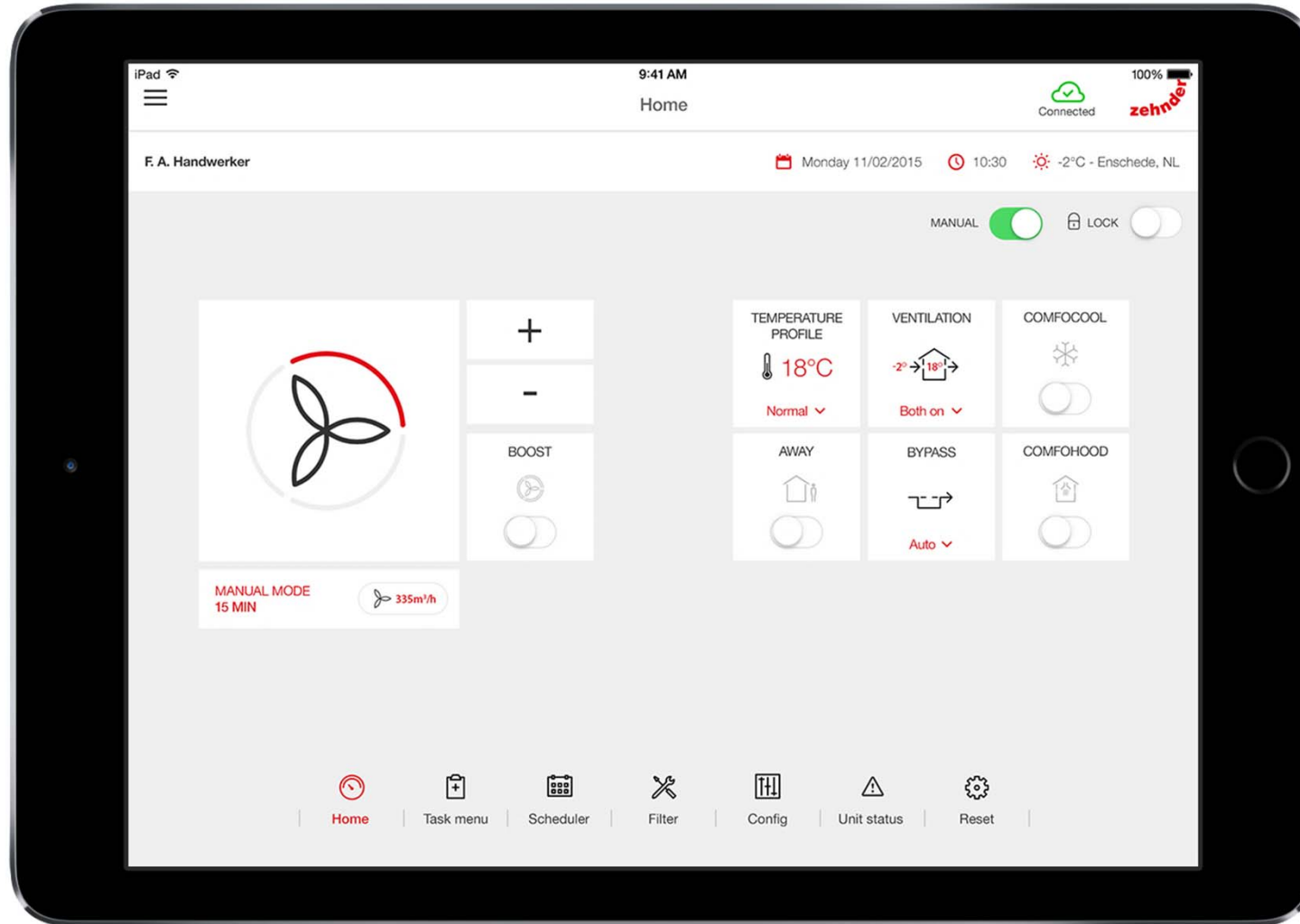
Overview of scenarios



Zehnder Control App – Screen 1 Ipad



Zehnder Control App – Screen 2 Ipad



Zehnder Control App – Status screens on iPhone

Unit status

E TASKS SCHEDULER CONFIGURATION **UNIT STATUS**

Unit	
HRU Type	ComfoAirQ 450
Firmware	R.0.20.5
Serial Number	012345678901234567890123...
Temperature & Humidity	
Extract Air	22.8 °C / 43%
Exhaust Air	23.1 °C / 38%
Outdoor Air	22.9 °C / 47%
Supply Air	23.1 °C / 38%
Bypass	
Bypass state	-
Frost Protection	
Unbalance	-
Pre-heater	Not installed

Unit status

E TASKS SCHEDULER CONFIGURATION **UNIT STATUS**

Fans	
Supply fan speed	649 rpm
Supply fan duty cycle	12%
Supply fan flow	66 m ³ /h
Exhaust fan speed	616 rpm
Exhaust fan duty cycle	13%
Exhaust fan flow	64 m ³ /h
Power Consumption	
Current Ventilation	3 W
Current Preheater	- W
Total YTOD	0 kWh
Total from start	1 kWh
Avoided Heating	
Avoided Actual	- kWh

Zehnder Web Portal


- Complements the app: easy access to the ComfoAir Q system via browser
- Remote access and control, even without a smartphone or tablet
- Remote diagnostics
- Secure, password-protected connection with varying access rights
- Management of multiple units
- Database for operation and fault history

The screenshot displays the Zehnder Web Portal interface. At the top, there is a table with columns: Name, Address, Zipcode, City, Last modified, and Errors. Below this is a search bar labeled 'Search list'. A second table lists units with columns: Gateway, Address, Zipcode, City, Model, Last modified, and Errors. The bottom section shows a detailed view of a 'Comfo Air NEO 350' unit, including its serial number, firmware version, and a notification about a new firmware update. Action buttons for 'Connect to unit', 'View logfiles (1)', and 'Commissioning report' are visible.

Name	Address	Zipcode	City	Last modified	Errors
Z. Ehnder	Streetwise 1	777 HJ	Zwolle	11/10/2014 09:05:17	1

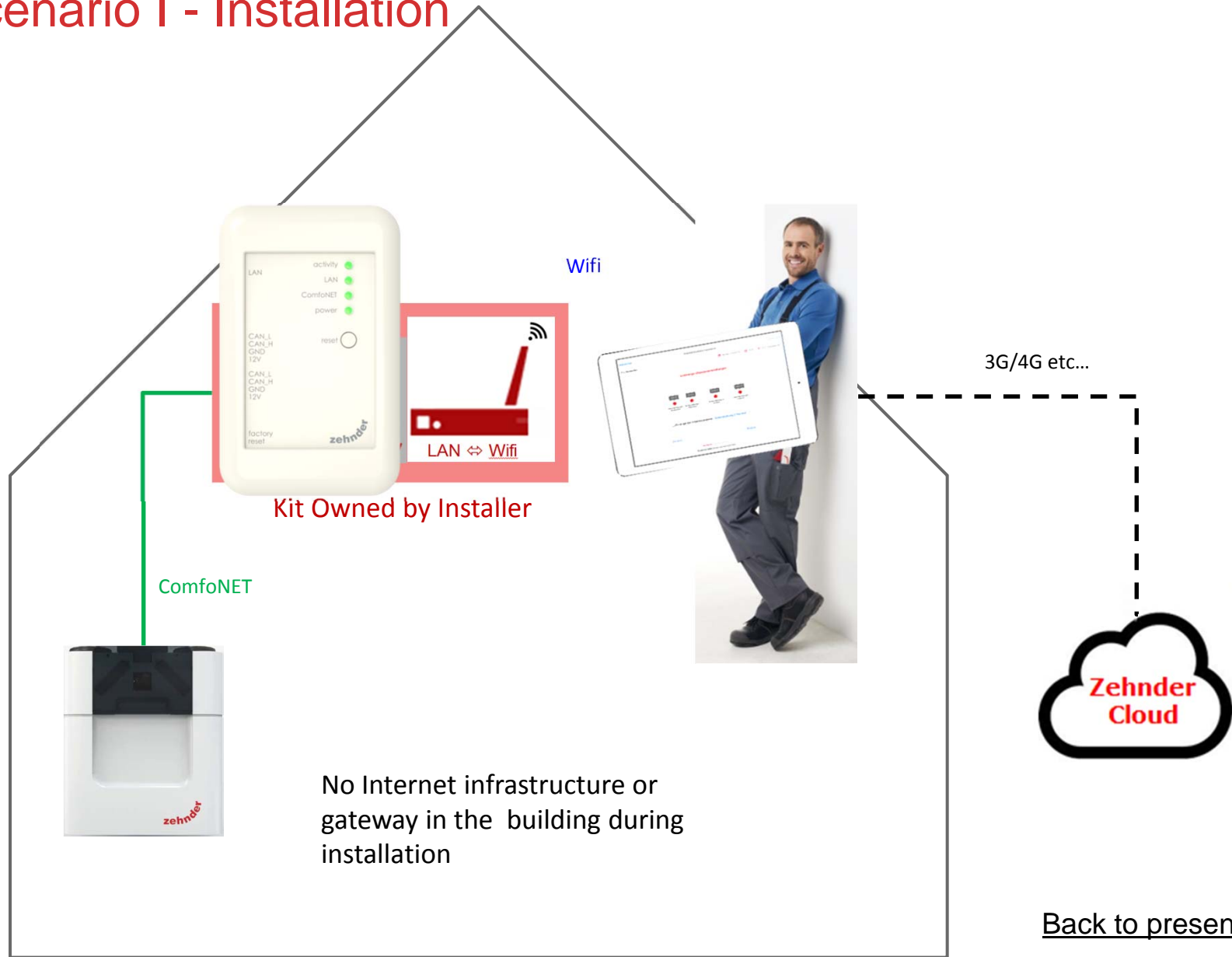
Search list

Gateway	Address	Zipcode	City	Model	Last modified	Errors
NL239	Address 1	777 HJ	Zwolle	350	11/10/2014 09:05:17	0
NL239	Address 1	777 HJ	Zwolle	350	11/10/2014 09:05:17	1

 Comfo Air NEO 350
Serial NL239813
Operates on firmware v1.00
New firmware update available for this unit!

Connect to unit
View logfiles (1)
Commissioning report

Scenario I - Installation



Kit Owned by Installer

ComfoNET

Wifi

3G/4G etc...

Zehnder Cloud

No Internet infrastructure or gateway in the building during installation

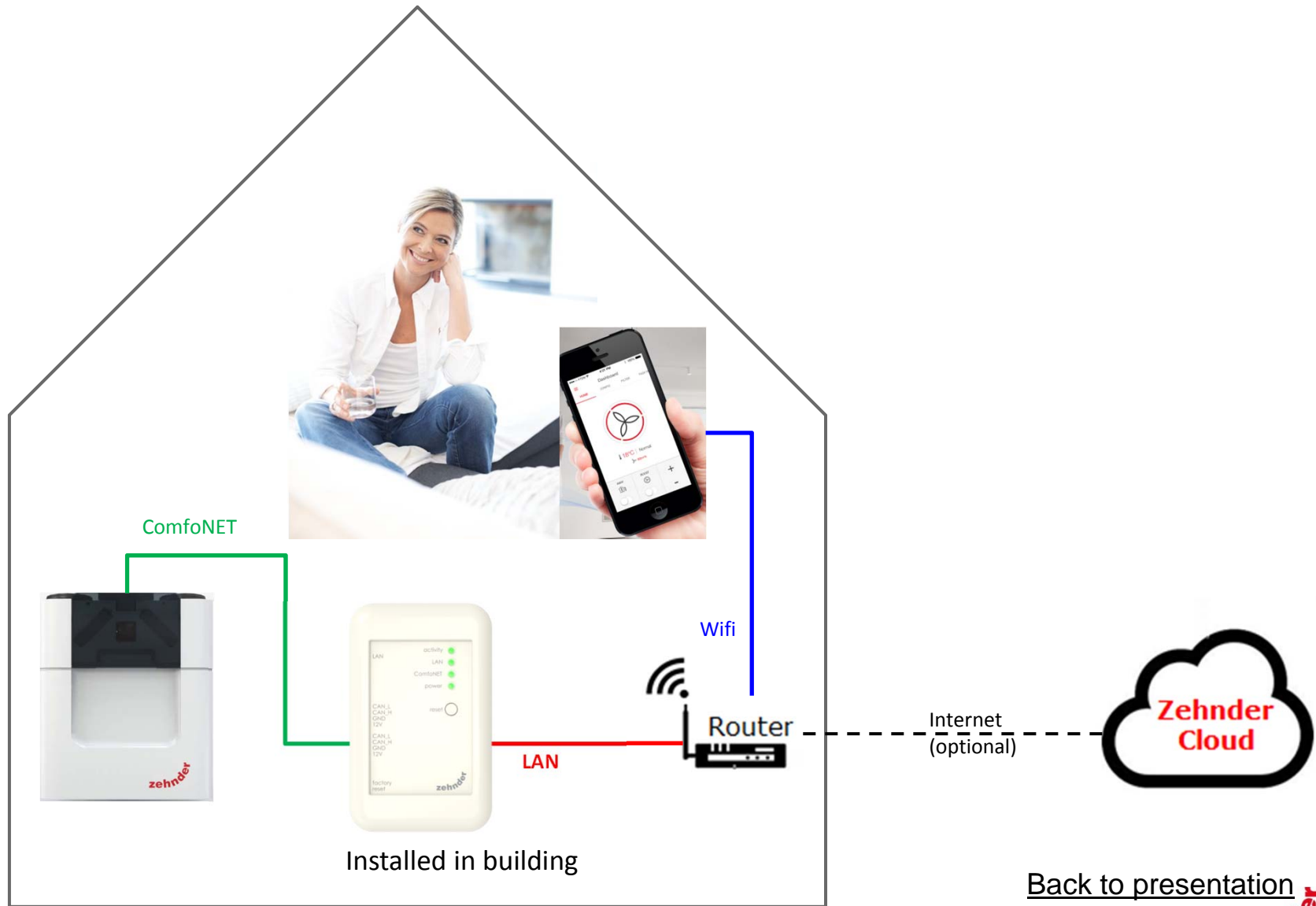
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Scenario S – Service and Maintenance



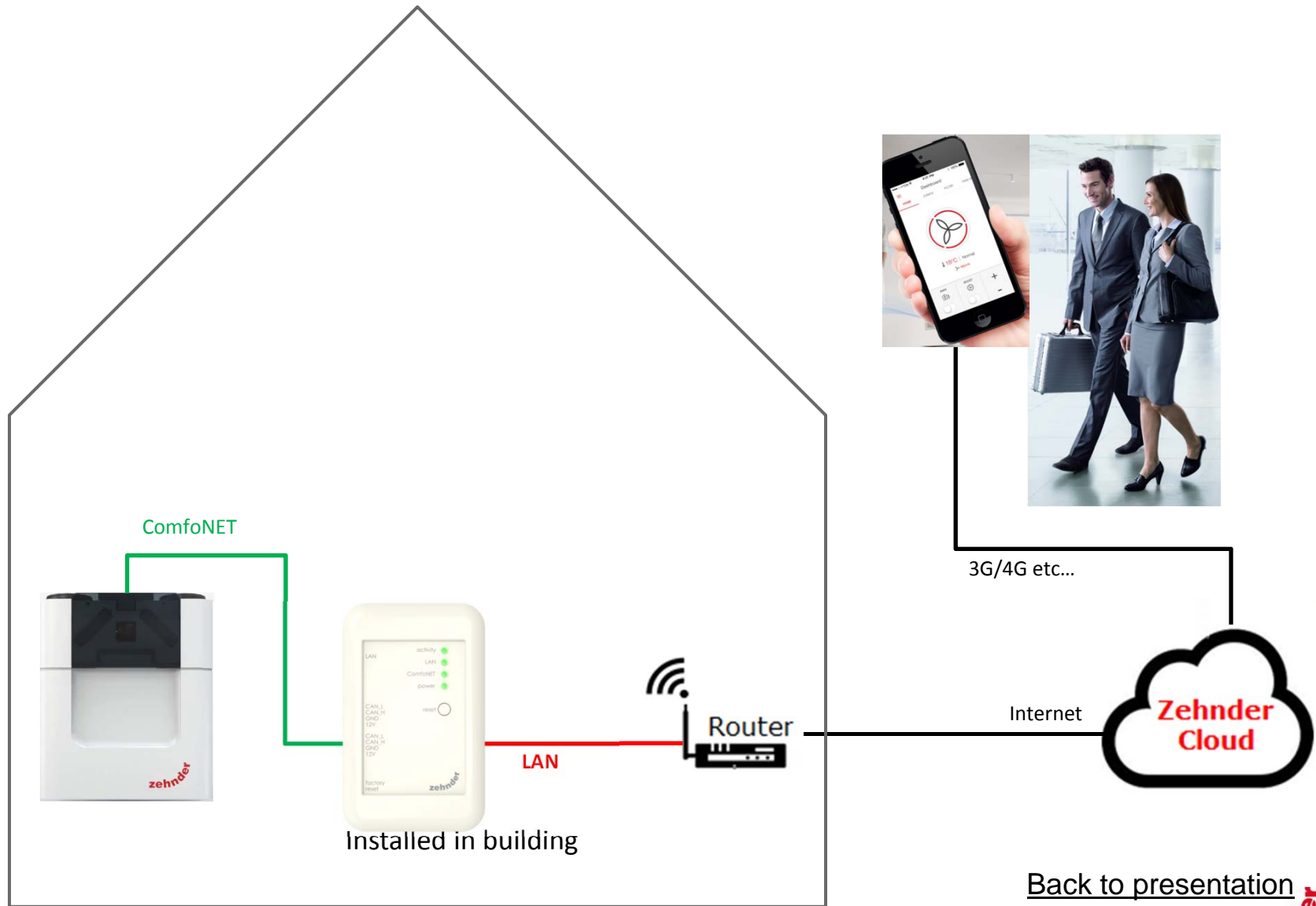
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Scenario H – at home

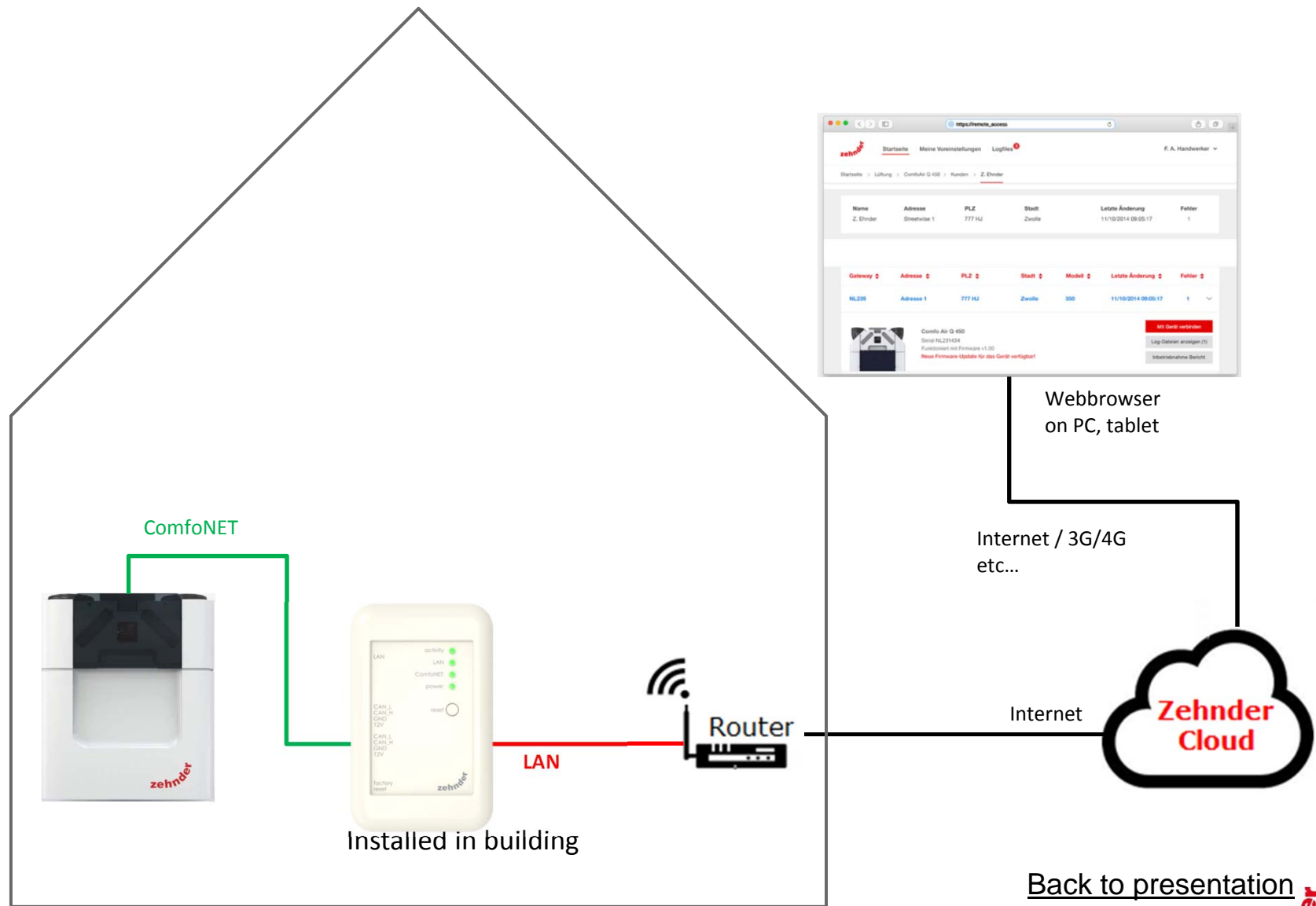


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Scenario O – Out of home



Scenario R – Remote Service by portal



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Back-up: possible developments in the future

Wish list / possible next steps

- Add target group housing corporations / woningbouwcorporaties
- Add data collections functions / bid data: how is our product actually being used?
- Add CRM functions: offer filters, service, extensions and replacement of units at the right time to the right customers
- Integration with Zmart eValve app
- Open our system to allow customer programming i.e. by “if this than that – IFTTT”
- Possible integration in google or apple homeautomation systems (NEST, Apple Homekit,) or others.