TopTronic® Supervisor

Presentation and advantages

Hoval Bulgaria

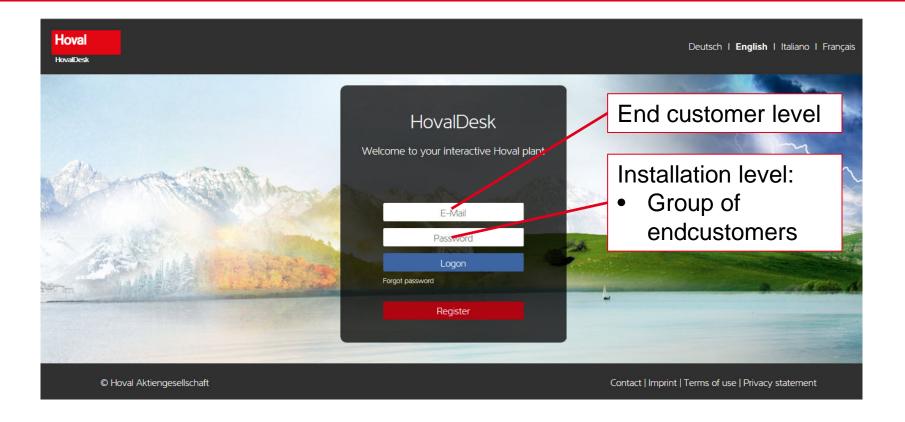


TopTronic® online

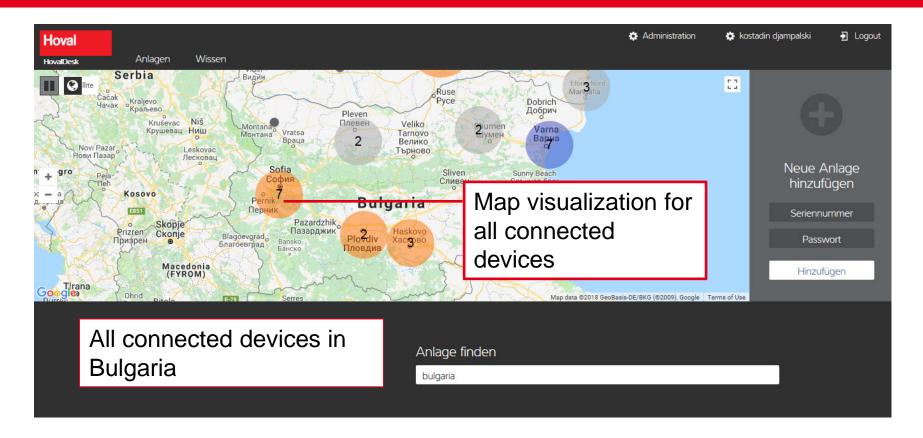
and his big brother

TopTronic[®] Supervisor

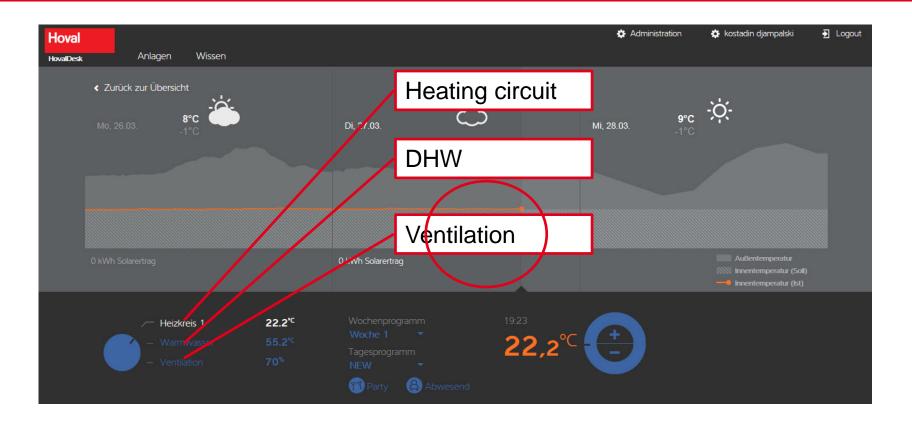
TopTronic®E online, www.hovaldesk.com



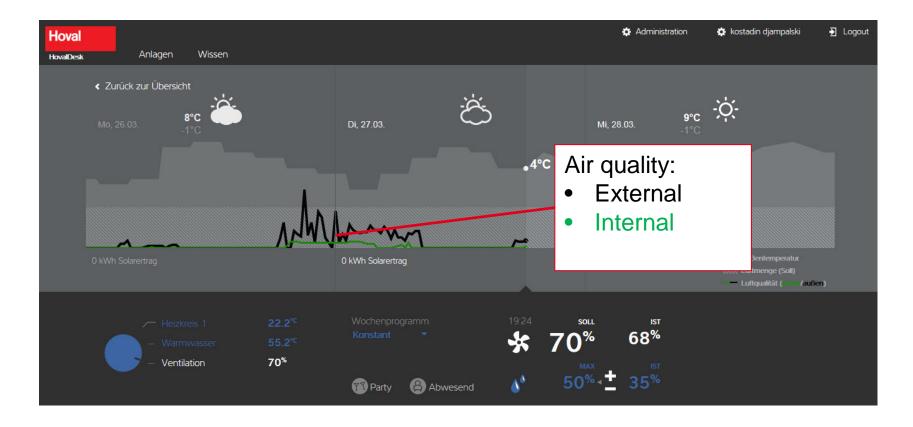
TopTronic®E online, overview



TopTronic®E, end user view

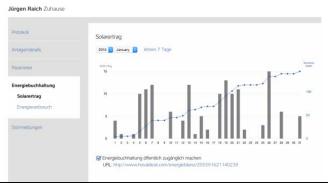


TopTronic®E, end user view, ventilation - HomeVent



TopTronic®E online, www.hovaldesk.com





- Access to current user or group of users
- Real time and historical information about system performance
- Quick access to all heating and DHW circuits with the most important functions
- Quick access to ventilation functions
- Simple graphical processing of the room/DHW temperature curve influenced by weather – comparison with energy yield/consumption
- Error messages
- Solar filed earned kW, diagram
- Online check and adjustment of the parameter settings, level 5 (OEM)

If the end user in not connected to Internet, FM don't have access to his equipment!!!

Reqular needs and requests

Sample: Residential complex





Customer needs:

- ✓ Energy management for complete residential park
- ✓ Gas & Water & Heat consumption monitoring
- ✓ Data storage at Facility managers FM computer
- ✓ Wired optical communication between houses and FM office
- ✓ Billing for Gas & Water & Heat consumption
- ✓ Notifications for Regular maintenance & Alarm
- ✓ Log files with the most important parameters of the system
- ✓ Accounts for FM (different levels)
- ✓ Alarm notification for Gas Magnetic valve We can receive potential free contact in order to provide the alarm notification
- ✓ Access for the end users true TTSupervisor NO!!

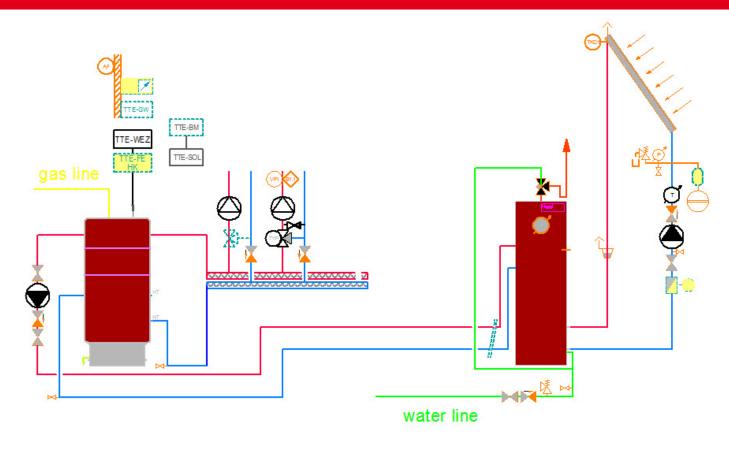


TopTronic Supervisor –

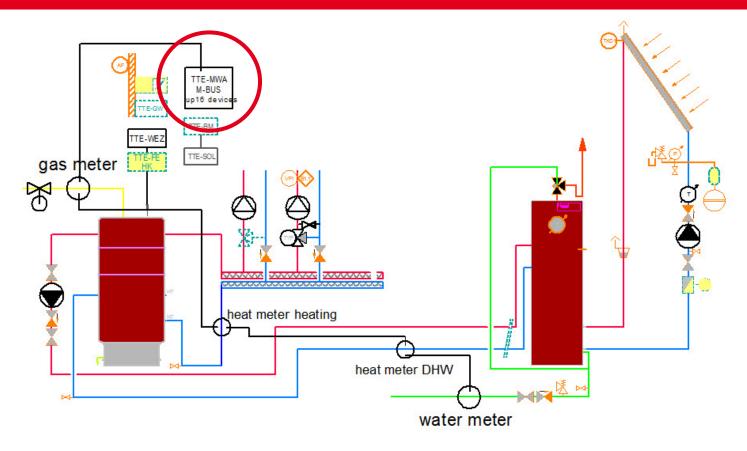
Energy Manager

Warning:
It is not for end customer usage
It is only for FM company!!!

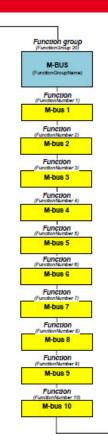
First step – Installation with TopTronic®E



Second step - Integration of external measure devices



TTE MWA module for external measure devices



Function (FunctionNumber 11)

M-bus 11

Function (FunctionNumber 12)

M-bus 12

Function

unction Number

M-bus 13

Function FunctionNumber 14 M-bus 14

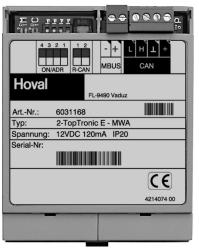
Function

unctionNumber 15

M-bus 15

Function Number 160

M-bus 16



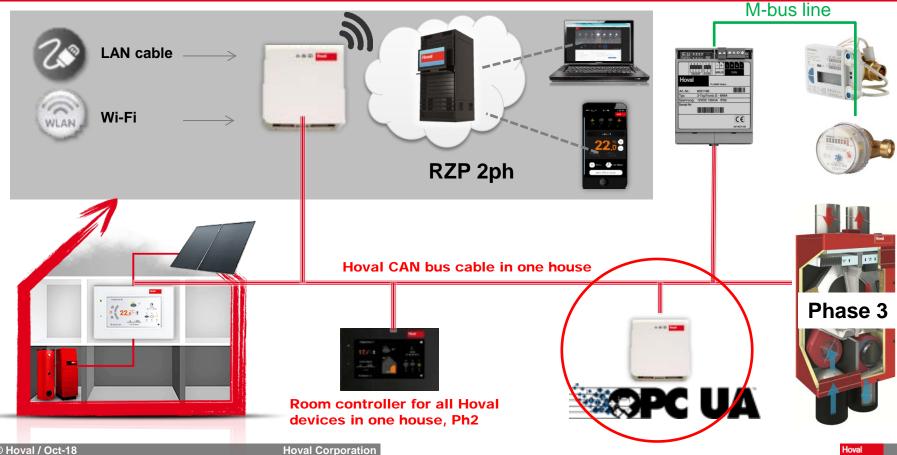






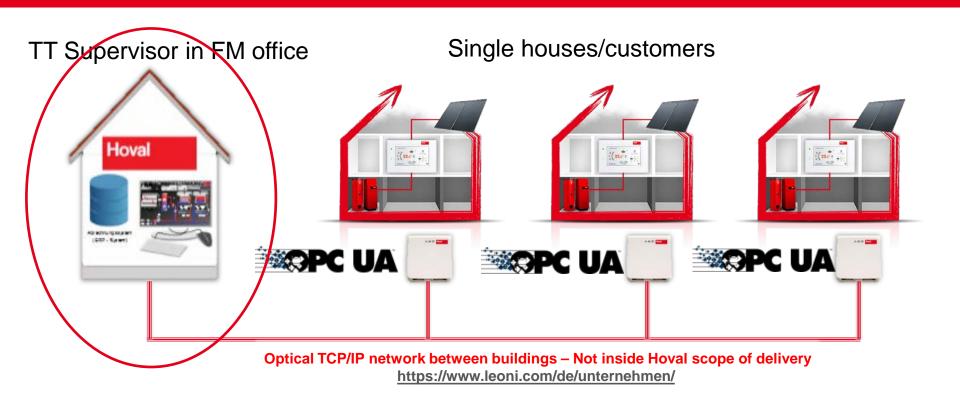


Step 3 - Transformation from TopTronic®E to TopTronic®Supervisor



© Hoval / Oct-18

TTSupervisor - System overview



TopTronic®Supervisor project overview

Main screen – PROJECT VIEW



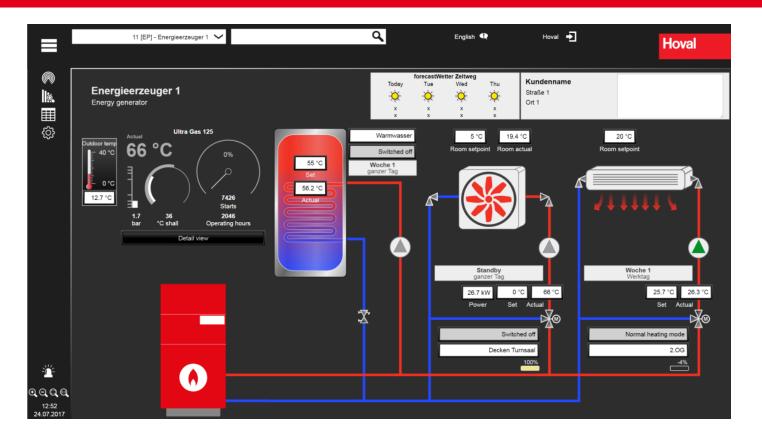
Google maps or personal master plan

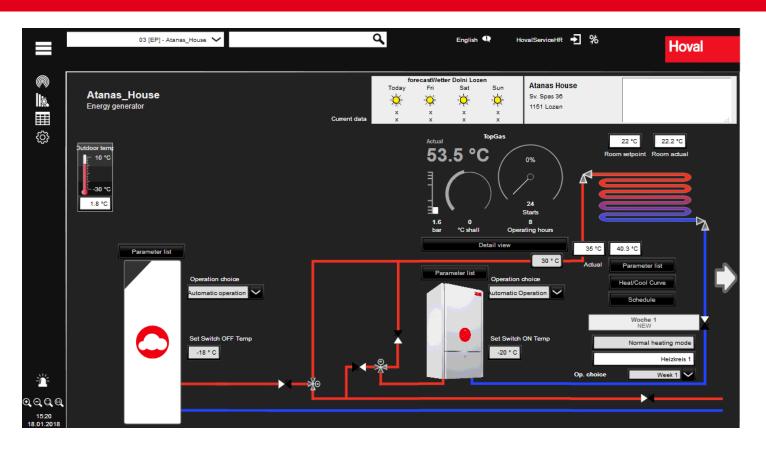
House 1

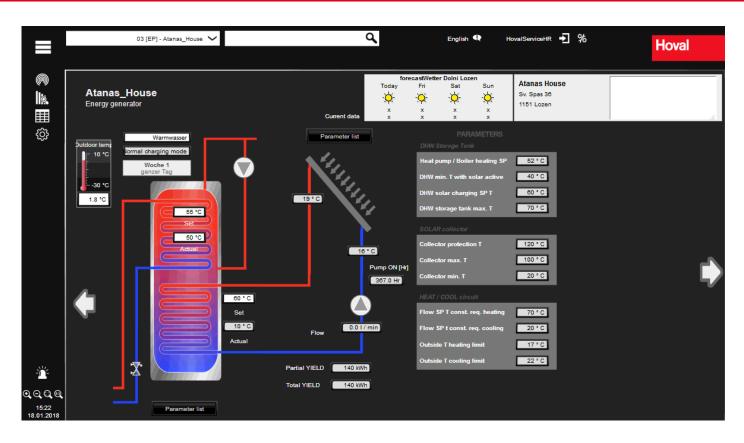


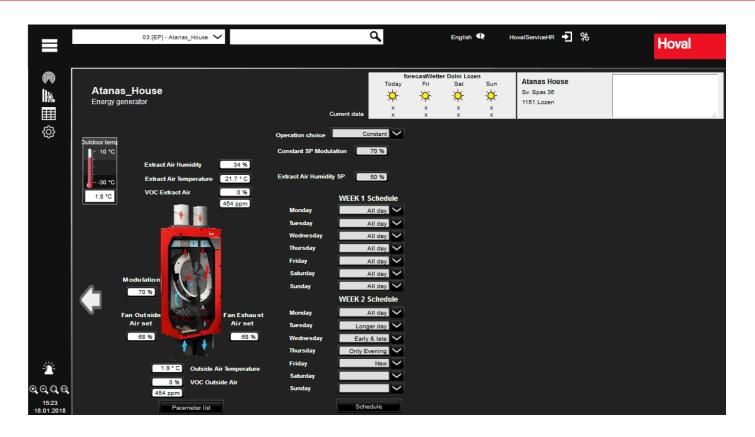
House ...n



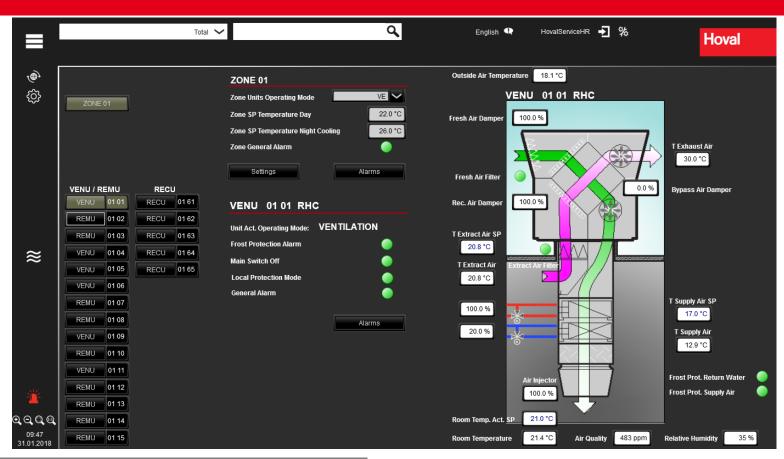




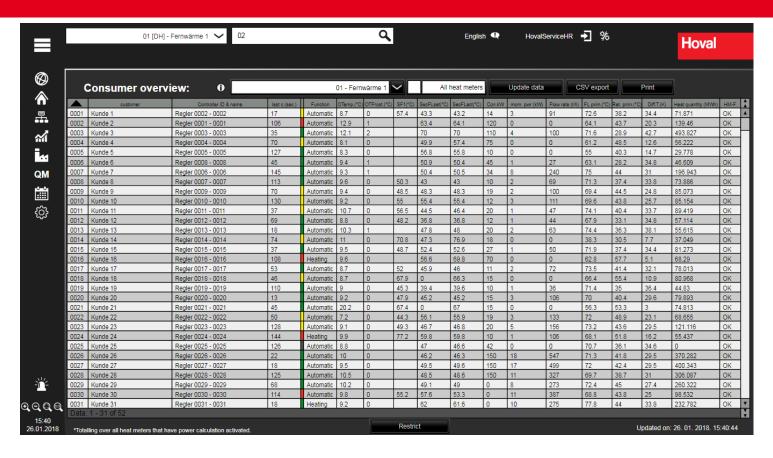




TopTronic® Supervisor for industrial projects is also available



Billing for Gas & Water & Heat consumption

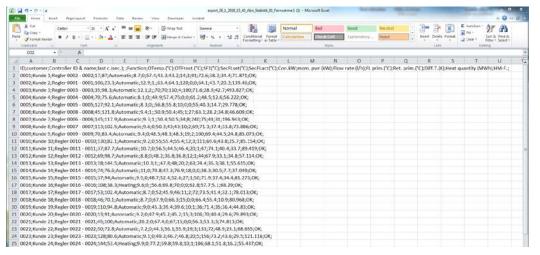


Billing for Gas and Water consumption

Export to CSV file

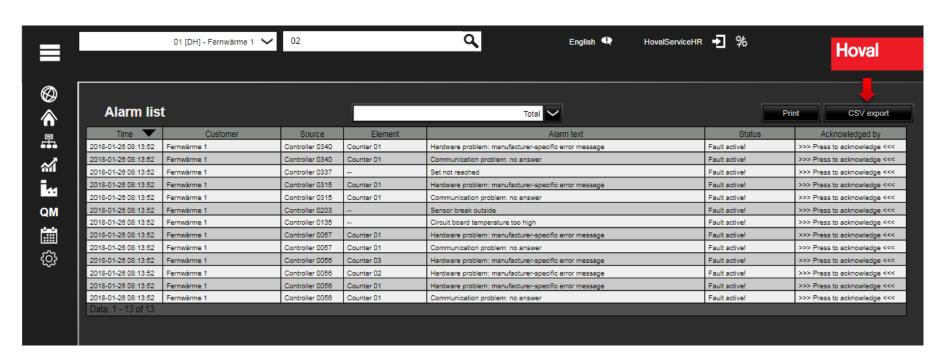




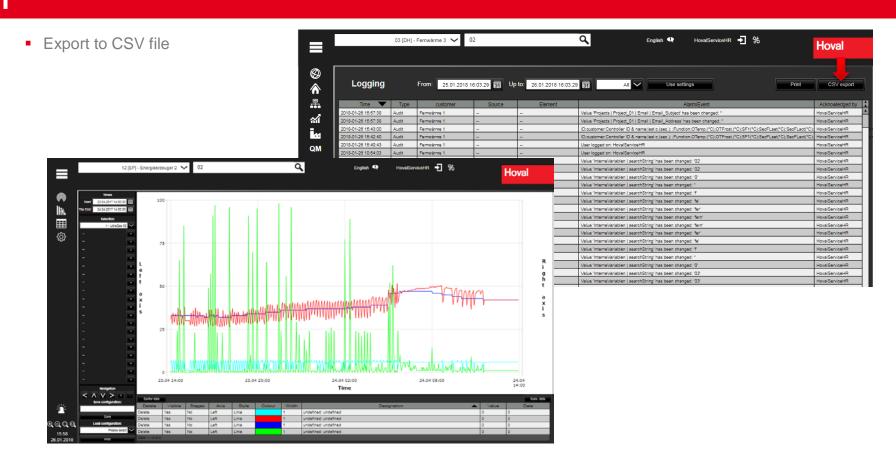


Alarm notification

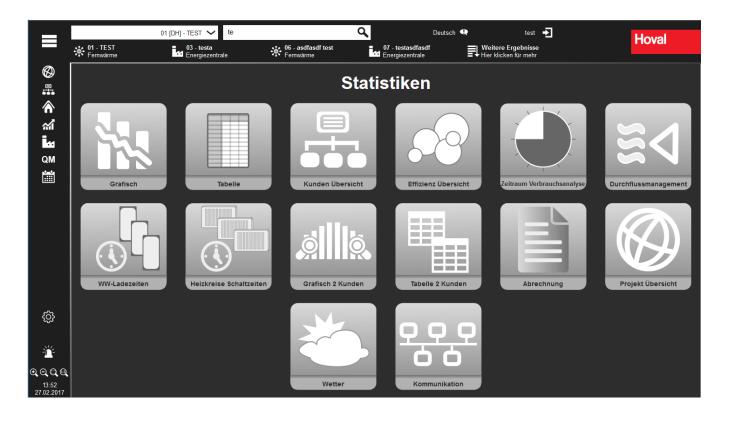
Export to CSV file



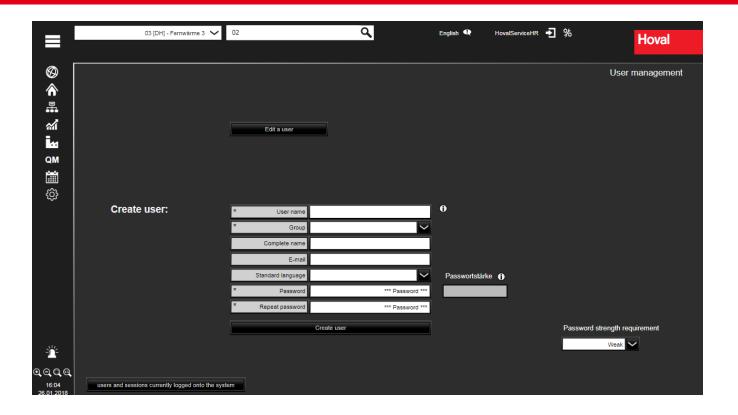
History Log files



Changes to TopTronic® supervisor 4.0



User management



Why TopTronic® Supervisor

- 100% Hoval tool/instrument, suitable specially for Hoval equipment
- Energy management and consumption optimization of for HVAC systems
- Easy implementation and installation
- Offline remote control of HVAC system (via VPN)
- System visualizations, graphical overview of trends in order to optimize system
- Alarm overview + notifications
- History log file, statistics of the most important parameters of the system
- Data export (.csv) for billing creation (from other ERP systems, or personal software)
- All data are stored on FM computer
- Data communication is encrypted
- User account management for different user levels in the system, no limit
- Single project/house record of service/maintenance activities, for easy follow up the service actions

One small step further, gives you a lot of opportunities.....

Questions and Answers

Questions and Answers

QUESTIONS	ANSWERS
Can we control Pumps, 3-way valves and dampers	Yes, TopTronic E is controlling pumps and three way valves. I am not sure which kind of dampers you want to control!
Can we have a room control? Underfloor, Radiators, Fan coils	We can control just heating circuit. If one heating circuit is responsible for one room then we can do it. If heating circuit is responsible for more room than we can't separate those rooms. All room will work parallel
Can we request data for specific period for specific parameters (for example: data from watermeter and heatmeter for last 30 days or from 01.05.2018-30.05.208)	Yes ,you can select specific period for data!
Can we connect electrometer (electricity meter)	We can connect all kind of Mbus meters, but you need to send us type of Electric meter in order to check with R&D is this meter compatible with our system
Can we do some summary statistics / resume	We are investigating this possibility!
can we customize some buttons on the screens	Yes we can!
do we have deferent level access and can we customize levels?	Yes!
Can we see who has changed the parameters, witch user?	Yes!
Can we connect cooling meter or heating/cooling meter?	Yes!

Additional questions

- Additional questions
- Q: Parameters of the PC
- Q: Technical request for wired optical network.

A: Optical network is not our part!

Customer can contact company

you can find on a link below!

https://www.leoni.com/de/unternehmen/

A: Dell Precision 5820 Tower

Intel Xeon W-2104 3.2GHz, 4C, 8.25M Cache, No Turbo, No HT, (120W) DDR4-2400

Precision 5820 Tower 425W Chassis

16GB (2x8GB) 2666MHz DDR4 RDIMM ECC

Internal PCIe SSD (Dell Ultra-Speed Drive)

2.5" 500GB 7200rpm SATA Hard Drive

2 x M.2 1TB PCIe NVMe Class 50 Solid State Drive

Integrated Intel AHCI SATA chipset controller (8x 6.0Gb/s), SW RAID 0,1,5,10

No Optical

NVIDIA NVS 315, 1GB, DMS59 (DMS59 to DVI-I adapter)

Dell Ultra-Speed Drive Duo PCIe SSD x8 Card

Dell Wired Mouse MS116 Black

Dell Multimedia Keyboard - Slovenian (QWERTZ) - Black

Boot drive or storage volume is greater than 2TB (select when 3TB/4TB HDD is ordered)

Windows 10 Pro for Workstation (up to 4 Cores) Multi - English, Arabic, French,

Russian, Turkish

Windows 10 Pro OS Recovery 64bit - DVD

Microsoft Office 30 Day Trial - Excludes Office License

McAfee Security Center 30 day trial, Digital Delivery

3Yr Basic Warranty - Next Business Day

What you can count on.

As a specialist in heating and air-conditioning technology, Hoval is your experienced partner for system solutions. Hoval ties together the various technologies and also integrates room ventilation into this system. You can be sure to save both energy and costs while protecting the environment.

Hoval is one of the leading international companies for indoor climate solutions. More than 70 years of experience continuously motivates us to design innovative system solutions. We export complete systems for heating, cooling and ventilation to more than 50 countries.

Responsibility for energy and environment.

