

## All Topics

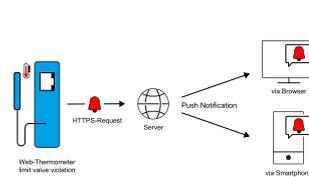
Here you will find our topic-specific contributions

Success stories



### Sending push notifications

Web Thermometer sends notifications to a cell phone

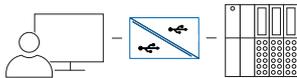


The W&T Web Thermometers can report limit violations and other system events over the network using various ways and means. A HTTPS call is used to cause nfy.sh to send a push notification over the server to the smart phone or web app.

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### Galvanic isolation for USB devices

USB Isolators protect from faults and destruction

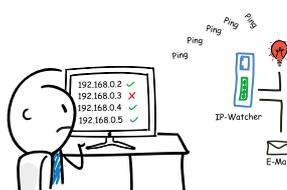


USB almost always provides a directly leading connection between USB host (PC) and USB terminal device. But it's not only in industrial applications that this brings with various problems that USB isolators can solve...

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### Autonomous network monitoring with the IP Watcher

Check IP addresses for status and issue an alarm when there is no response



In these times of Industry 4.0 and IoT, knowing the status of network components is more critical than ever. The IP Watcher immediately detects and reports failures of devices and infrastructure...

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### Control time switch with online calendar

Synchronizing time switches with iCal

There are numerous situations in which network time switches are useful - from switching lights to releasing doors and gates, switching alarms, break bells or church bells, to controlling watering and climate control systems and other building technology...

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## Do it Yourself

### Security for machines and systems



The Microwall Bridge quickly and simply secures sensitive machines, systems and other devices. It segments your network based on your individual communication rules.

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## Switching by phone call

### Thanks to VoIP and SIP

Open gates or doors remotely? Trigger alarms by switching signal lamps, horns, bells or sirens? Control outdoor lighting? All it takes is a phone call - Switching with the SIP Ring Switch.

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## Secure free spaces

### IT security for operative technologies

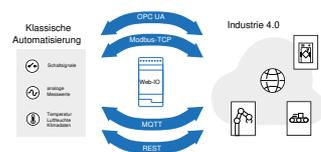
Automation technology in industry generally means combining components from different manufacturers into a common system. Standardized, TCP/IP-Ethernet based network protocols have been relied on since even before the Industry 4.0 initiative.

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## Automation with standard protocols

### Integrating signals with Modbus-TCP, OPC UA/DA, REST or MQTT



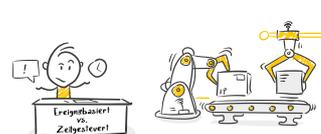
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## Cycle time and event-controlled automation environments

### IEC 61131 and IEC 61499 compared



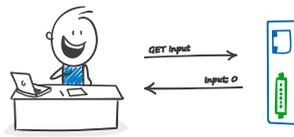
The function blocks familiar from IEC 61131 were expanded with additional in- and outputs for event signaling and invoke each other...

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## Programming Web-IO applications

## Monitoring, processing and setting IO signals in your own application.



Anyone looking to handle smaller or larger automation tasks using their own application will find the ideal foundation with our Web-IO products.

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## Incorporating serial devices into virtual systems

### Virtual COM ports in virtual machines



Virtualizing computer systems is sensible in many cases for reasons of both cost and security. But if the system is going to be used with serial devices...

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## Switching between locations

### Tunnel IO signals "Box-to-Box" through the network

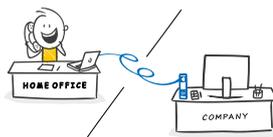


Switching signals are often not needed in the same place they are generated. Unfortunately it is not always easy to link switching signals over greater distances...

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## Use USB devices in your home office as well



The USB-Servers bring USB interfaces into the company network. Through use of a VPN this gives you access even from distant locations. This makes it possible to work from home in many cases where actual physical presence would be otherwise required...

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## MQTT – communication in the Internet of Things



The terminal devices involved in MQTT communication open a connection to a central messaging service, the broker. Here they can publish messages as a publisher or receive them as a subscriber...

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## Monitor and improve air quality

### to prevent aerosol infections



[We are available to you in person:](#)

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