

Topic:

Islandization with small firewalls

IT security for machines, devices and systems



Whether it's a machine tool, X-ray machine or lift controller: many of these devices are network capable but based on antiquated and/or non-patchable operating systems. This makes them an easy target, representing a risk not only in themselves but also for other network devices. Micro firewalls isolate and segment these systems. They control, monitor and log communication using IP- and port-based rules to close many security gaps. Remote access, such as when service is needed, is option via a VPN which is enabled by the user as required.

Tutorials

Isolating a CNC milling machine in the network

- Closing security gaps using new network segments
- Detailed application example

Important firewall rules

- Standard firewall rules for assisting in the configuration of typical application cases

Access a Web-IO from a smartphone using a VPN tunnel

- Connecting a smartphone with a Web-IO
- Protected connection through a WireGuard VPN connection

WireGuard VPN tunnel between 2 networks

- Connection between two PCs in different network segments
- Step-by-step manual for configuration

More on the topic

Firewalls, segmentation and islandization

- Monitor firewalls, control and log communication between subnets
- Packet filters block malware

Find security gaps in the network with nmap

- Identify open ports to eliminate possible weak points
- Analysis of terminal devices, operating systems etc.

VPN scenarios

- Host-to-Island
- Island-to-Host
- Island-to-Island

Products

#55411



Microwall Bridge

Firewalling
via bridge

#55211



Microwall VPN

with integrated
WireGuard VPN server

#55212



Microwall IO

with innovative I/O control for VPN
access

#55312



Fixed Defined Firewall

Network one-way street

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