

W&I connects

Interfaces for TCP/IP, Ethernet, RS-232, RS-485, USB, 20mA,
glass and plastic fiber optic cable, http, SNMP, OPC, Modbus TCP, I/O digital, I/O analog, ISA, PCI

Background information:

Segmentation: Router- vs. Bridge Mode

Bridge: Microwall Bridge

The Microwall Bridge operates transparently as far as the IP ranges are concerned. This means the IP ranges (Net-IDs) of the surrounding network and the island side are identical. Nevertheless, cross-network connections are only possible after establishing express release rules based on the respective involved IP addresses and TCP/UDP port numbers.

Preferred application:

The low-effort post-segmentation is historically grown, flat network hierarchies.



Advantages:

- Low integration effort in subsequent segmentation of network ranges. No intervention in the network setup of the island slaves or the applications running there is necessary. The island is for example managed only by an Ethernet switch and the Microwall Bridge is connected to the surrounding network in its uplink.
- Very simple emergency fallback to a direct connection (e.g. at commissioning or device failure): The uplink cable of the island is simply directly connected to the surrounding network.
- Simple configuration of the release rules based on IP addresses and TCP/UDP port numbers using the Web interface of the Microwall.

Alternative:

- To conserve IP addresses in the higher level network or not be able to inventory island devices from the surrounding network via ARP, the Microwall VPN is ideal for segmenting.

Router: Microwall VPN and Microwall IO

Both the Microwall VPN and the Microwall IO work like traditional routers from the perspective of the infrastructure, i.e. they connect different networks from the IP point of view. Data traffic between these networks is controlled and secured using a Microwall-internal firewall with explicit release rules.

Preferred application:

New installations of equipment by manufacturers/integrators/operators. Here for example the same IP setup can be used in serial production for all devices/equipment as a factory setting. For the operator this reduces the effort for integrating his network to the Microwall configuration.



Advantages:

- With functions such as Static-NAT the island network can be completely hidden from the surrounding network on all protocol levels (Ethernet, IP).
- Multiple islands having the same IP address range can be incorporated into the surrounding network.
- Simple configuration of the release rules based on IP addresses and TCP/UDP port numbers using the Web interface of the Microwall.

Alternative:

- If you need to ensure segmenting without making changes to the IP configuration, or for a simple emergency fallback to a direct connection with the surrounding network, the Microwall Bridge is the right choice.

Don't just read about it!

We are happy to provide you with a Microwall at no charge for a period of four weeks.

[Request test unit](#)

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