NEW:
Gigabit
variant*

Helmholz®
COMPATIBLE WITH YOU

THE CUSTOMIZED SOLUTION FOR SIMPLE MACHINE INTEGRATION

WALL IE – Industrial NAT Gateway / Firewall

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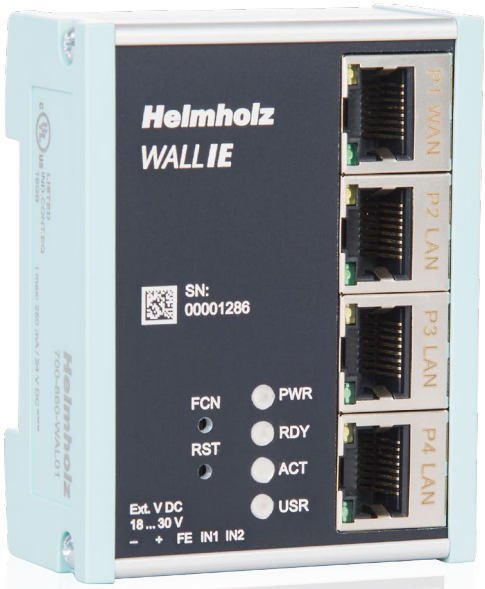
WALL IE – YOUR NETWORK COACH

More than just a firewall!

High level of security
through access restriction
with packet filters (IPv4 addresses, protocol (TCP/UDP), ports, MAC addresses).

Time savings
through automatic translation
of the IP addresses (NAT) without changing the existing network configuration.



Smooth production process
through network segmentation
for more performance in the higher level network – avoidance of broadcasts.

View video

Secure communication · Easy addressing · Intuitive configuration

Success in the automation industry starts with improved security and seamless connectivity.

Through **network segmentation** and **automatic translation of IP addresses**, the NAT gateway makes a decisive contribution to **reliable machine integration** and securely protects your automation network against unauthorized access. So that your network works even more efficiently and securely.

Optimize productivity – reduce costs! Thanks to the individual configuration, the ***WALL IE*** can be easily adapted to the requirements of the respective machine network. If identical IP address ranges are to be realized, ***WALL IE*** functions as a bridge.

Are you struggling with the following network pitfalls?

→ Complicated machine integration through IP address adjustment?
→ Overloaded network vulnerable to malfunction?
→ Cybersecurity – fear of attacks?

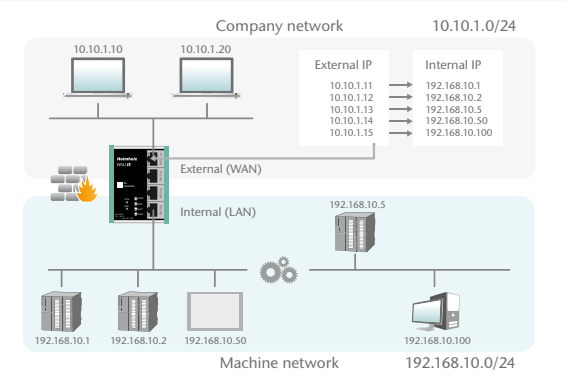
Master the challenges of your automation network now with *WALL IE!*

PRODUCT HIGHLIGHTS:

- NAT (Basic NAT, NAPT and port forwarding)
- Integration of series machines with identical IP addresses into the production network
- SNAT: No adjustment of the network configuration necessary in the LAN network
- Access restriction through packet filters: IPV4 addresses, protocol (TCP/ /UDP/ICMP), ports, MAC addresses
- Reduction of the network load through the filtering of broadcasts and multi-casts
- Quick and easy configuration via a responsive web interface
- Import and export of the configuration
- DHCP server (LAN) / DHCP client (WAN) / DNS server (LAN)
- Space-saving design for the DIN rail

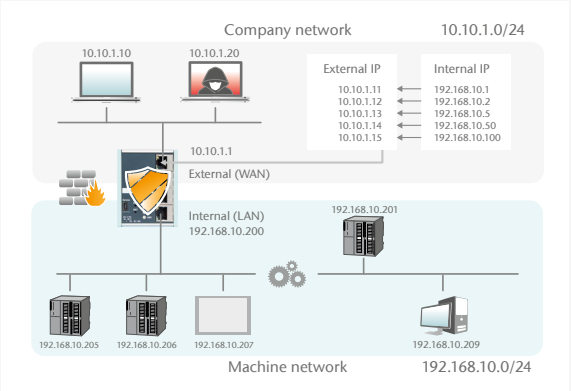
NAT operating mode (Basic NAT)

The NAT operating mode serves the forwarding of data traffic between various IPv4 networks (Layer 3).



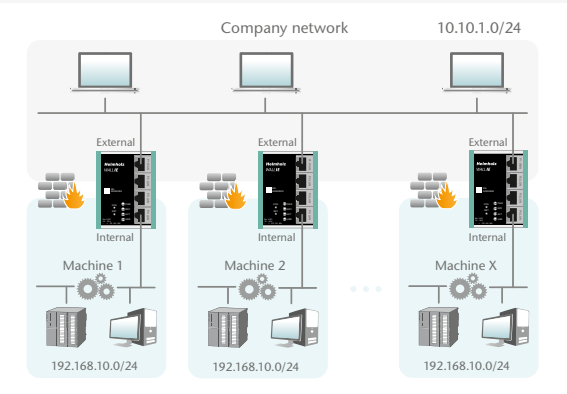
Packet filter functionality

The packet filter enables the limitation of access between the production network and the automation cell.



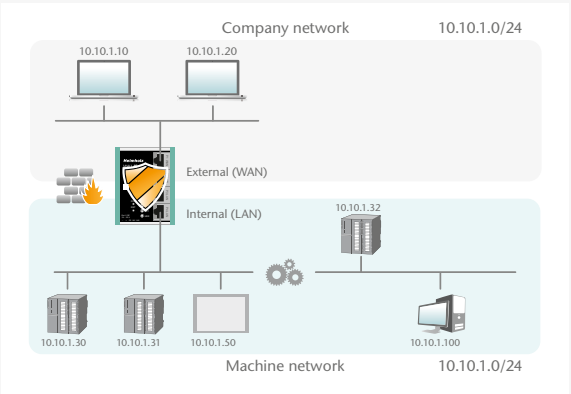
NAT application

Using Network Address Translation (NAT), ***WALL IE*** makes it possible to incorporate several automation cells of the same kind into the production network.



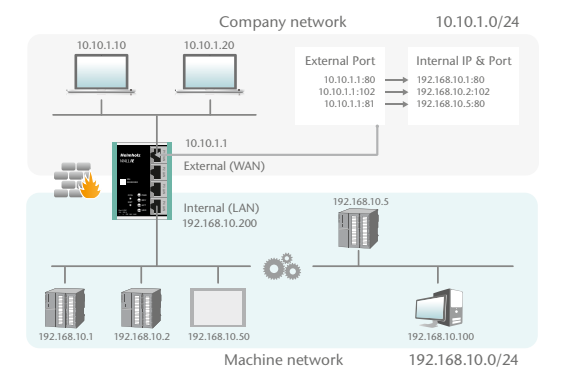
Bridge operating mode

In the bridge operating mode, ***WALL IE*** behaves like a layer 2 switch between the automation cell and the production network.



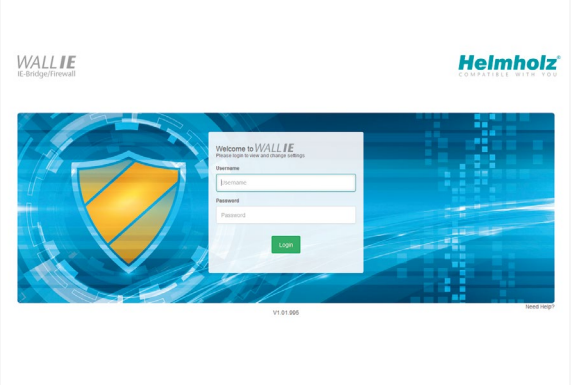
NAPT: Network Address and Port Translation

NAPT, also known as “1:N NAT” or “Masquerading”, is the translation of all addresses of the automation cell into a single address of the production network.



Easy administration via intuitive web interface

The configuration of the ***WALL IE*** can be carried out easily and in a well-structured fashion with the integrated website.



NEW: Gigabit variant

*WALL IE PLUS – Industrial NAT/Gateway Firewall

More data throughput for the MES connection and video cameras.
The more efficient processor of the "PLUS variant enables the connection of cameras, control panels, PCs and other Ethernet components with up to 1000 Mbps. The configurable posts can be freely assigned to the LAN or WAN network.

PRODUCT HIGHLIGHTS:

- 8 ports for 100/1000 Mbps
- Integration of series machines with identical IP addresses
- Firewall and user administration integrated
- Ethernet ports configurable for LAN or WAN
- Reduction of the network load through broadcast filtering

Curious?

TECHNICAL DATA / ORDERING INFORMATION

	*WALL IE – Industrial NAT Gateway / Firewall (incl. Quick Start Guide)	*WALL IE PLUS – Industrial NAT Gateway / Firewall (incl. Quick Start Guide)
Order number	700-860-WAL01	700-862-WAL01
Dimensions (D x W x H)	32.5 x 58.5 x 76.5 mm	34.5 x 101.5 x 75.5 mm
Weight	Approx. 130 g	Approx. 230 g
Interfaces	1x WAN 10/100 Mbps 3x LAN 10/100 Mbps, switch	WAN/LAN interface 8, configurable 100/1000 Mbps
Operating modes	Bridge, NAT (Basic NAT, NAPT)	Bridge, NAT (Basic NAT, NAPT)
Packet filter	IPV4 addresses, Protocol (TCP/UDP), Ports: "WAN to LAN" and "LAN to WAN" separated, MAC addresses (black & whitelisting)	IPV4 addresses, protocol (TCP/UDP), ports: "WAN to LAN" and "LAN to WAN" separated, MAC addresses (black & whitelisting)
Status indicator	4 LEDs function status 8 LEDs Ethernet status	4 LEDs function status 8 LEDs port assignment 16 LEDs Ethernet status
Voltage supply	DC 24 V (18 ... 30 V DC)	DC 24 V (18 ... 30 V DC)
Current draw	Max. 250 mA at DC 24 V	Max. 275 mA at 24 V DC
Permissible ambient temperature	-40 to ... +75 °C	0 °C ... +60 °C
Transport and storage temperature	-40 to +80°C	-40 °C ... +85 °C
Protection rating	IP20	IP20
Certifications	CE	CE
UL	UL 61010-1/ UL 61010-2-201	UL 61010-1/ UL61010-2-201
- Voltage supply	DC 24 V (18 ... 30 V DC, SELV and limited energy circuit)	DC 24 V (18 ... 30 V DC, SELV and limited energy circuit)
- Pollution degree	2	2
- Altitude	Up to 2000m	Up to 2000m
- Temperature cable rating	87 °C	87 °C

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