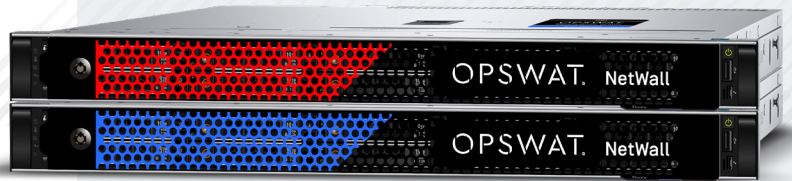


NetWall USG™

Unidirectional Security Gateway for Safe OT/IT Communications

OT Cybersecurity That No Firewall Can Match

OPSWAT NetWall USG (Unidirectional Security Gateway) assures uncompromising security for OT/IT communications, providing access to real-time OT data and enabling secure IT-OT data and file transfers without the risk of introducing security threats to critical OT production networks and assets. NetWall USG enforces one way data flows while guaranteeing payload delivery and preventing data loss and retransmission.



Key Features

Guaranteed payload delivery with absolutely no data loss.

Anti-overflow control eliminates data overflow, retransmissions, and sync issues.

No return path: one-way data flows are enforced by a non-networked serial connection between the NetWall USG server pair.

Easy to deploy: preconfigured platform deploys quickly, seamlessly.

Simple to operate: ready for use in minutes after one-time initial setup. No firewall audit or configuration needed.

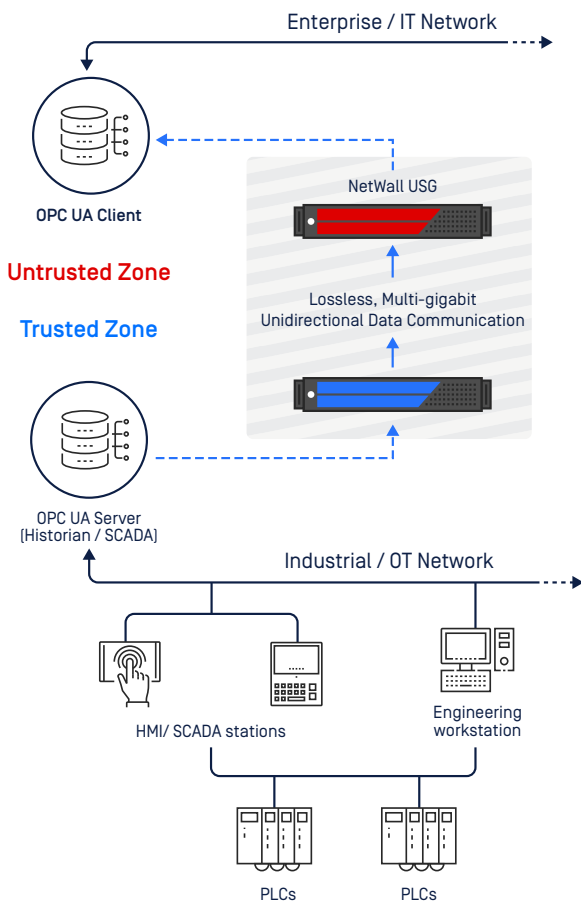
Highly scalable: choose 100 Mbit, 1 Gbit or 10 Gbit throughput—all software selectable.

Transparent to users: high-fidelity data replication means there is no need to alter work procedures of corporate users.

Enables regulatory compliance: for many requirements of Industrial Cyber Security standards, including NERC CIP, NIST ICS/CSF/800-82/800-53, IEC 62443, NRC 5.71, CFATS, ISO 27001/ 27032 / 27103, ANSSI, IIC SF, and more. Protects against Industrial attack techniques outlined by MITRE ATT&CK for ICS.

Benefits

- Airtight protection for OT/ICS-to-IT communication
- Secure, segmented, unidirectional data paths
- True protocol break, non-routable connection
- Assured delivery with no data loss
- Easy deployment and operation



NetWall USG Assures No Way Back to the OT Network

Lossless, Unidirectional Data Communications

- Isolate OT/ICS assets against cyberattacks
- Prevent malicious C&C communications from the OT network
- Segment and protect networks, devices, historians, SCADA, DCS, HMIs, and PLCs
- Seamless integration with OPSWAT MetaDefender Kiosk and Vault
- Secure the transfer of software updates and other files to the protected domain

OPSWAT NetWall USG Specifications

PRODUCT DESCRIPTION

NetWall USG is delivered as a preconfigured appliance, comprising of a pair of 19" 1U rack mounted servers (2U total). Includes a non-networked serial cable, USB security dongles and management console. Field upgradable by software licensing.

PRODUCT PART NUMBERS

NetWall USG 100 Mbps	MD-NW-UNI-100Mbps
NetWall 1 Gbps Upgrade	MD-NW-1Gbps-UG
NetWall 10 Gbps Upgrade	MD-NW-10Gbps-UG

PLATFORM SPECIFICATION

Redundant Power Supplies	250W
Voltage	100-240VAC, auto ranging
Power Consumption	Typical ~150W
USB Interface	1 USB socket on each platform to connect provided USB crypto key

TESTED LATENCY*

TCP data stream	0.6ms
UDP data stream	0.7ms

RELIABILITY

MTBF	> 50,000 hours
------	----------------

FORM FACTOR

Weight	2 units @ 27lb / 12.2kg each
Mounting	Rack mounting kit supplied

Broad Support for Unidirectional OT/IT Convergence

OPSWAT NetWall Unidirectional Gateway data replication solutions support a wide range of industrial OT and corporate IT protocols and applications.

Application and Protocol Support

Industrial Protocols

- Modbus
- OPC (UA, DA, A&E)
- MQTT-SN
- IEC104

IT Protocols

- UDP, TCP, HTTP, HTTPS
- Video/Audio stream transfer

IT Monitoring Applications

- Log Transfer, SNMP Traps, SYSLOG
- SIEM integration via SYSLOG

File/Folder Transfers

- FTP, SFTP, Folder and file transfers/copying
- Windows File Share, SMB, CIFS
- Antivirus updates, patch (WSUS) updates