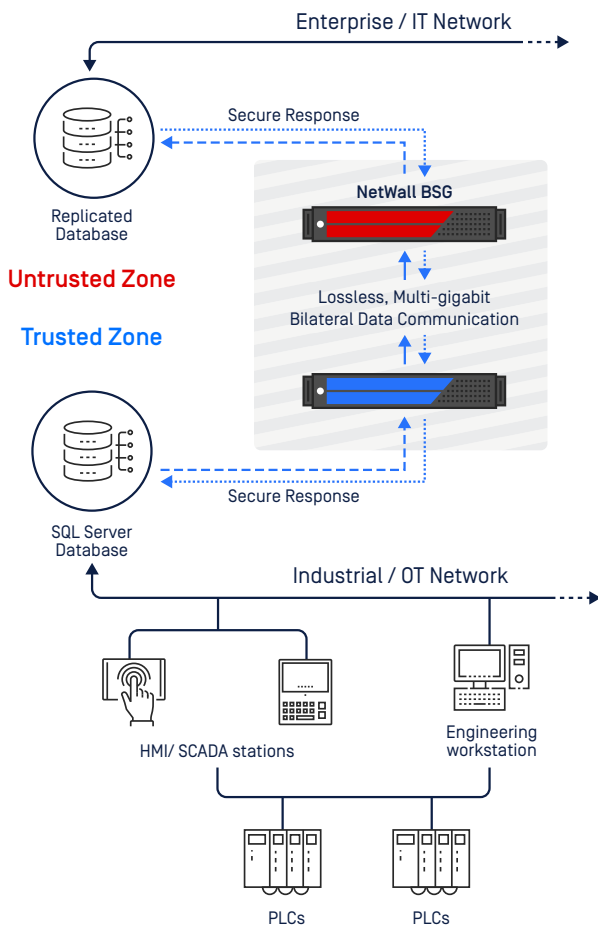


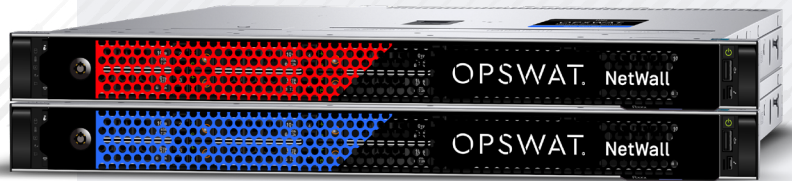
NetWall BSG™

Bilateral Security Gateway for Safe OT/IT Communications

OPSWAT NetWall Bilateral Security Gateway (BSG) supports real-time replication and transfer of Historians and SQL databases without compromising the security and integrity of your critical production systems. NetWall BSG strictly enforces one-way data flows, it also employs a proprietary bilateral mechanism to handle data replies needed by SQL databases and industrial Historians hosted in your OT environment, which is completely transparent and requires no change to application configurations or work procedures.



Use NetWall BSG for OT Data Replication with Secure Response



Key Features

- Guaranteed payload delivery** with absolutely no data loss.
- Anti-overrun** 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.
- Bilateral support** mechanism permits data replies while enforcing full protocol break and physical isolation.
- 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.

Benefits

- Lossless, unidirectional OT to IT data communications
- Includes a unique mechanism to permit receiving data replies for select applications
- Isolates OT/ICS assets against cyberattacks
- Prevents OT network data exfiltration, malicious C&C communications
- Segments and protects networks, devices, historians, SCADA, DCS, HMIs, and PLCs

OPSWAT NetWall BSG Specifications

PRODUCT DESCRIPTION

NetWall BSG 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 BSG 100 Mbps	MD-NW-BIL-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
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FORM FACTOR

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

Broad Support for OT/IT Convergence

OPSWAT NetWall Bilateral Gateway data supports a wide range of OT nad IT protocols and data replications, including applications requiring a response message.

Application and Protocol Support

Industrial Historian Replication

- GE Proficy Historian
- Aspentech IP21
- OSIsoft PI
- CanaryLab Historian + other Industrial Historians

IT Protocols

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

Industrial Protocols

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

IT Monitoring Applications

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

Relational Database Replication

- Microsoft SQL
- Oracle Golden Gate + other RDB

File/Folder Transfers

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