

METADEFENDER™

# Bilateral Security Gateway

## For Safe OT/IT Communication

MetaDefender 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. 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.

## Benefits

- Lossless OT to IT data communications
- Includes a unique mechanism to permit receiving data replies for select applications
- Isolates OT/ICS assets against cyberattacks
- Assures reliable database replication with no database synchronization issues
- Segments and protects networks, devices, historians, SCADA, DCS, HMIs, and PLCs

## Key Features



### Guaranteed Payload Delivery

Absolutely no data loss.



### High-Availability

With the purchase of a second MetaDefender BSG device, enable high-availability configurations [active/standby].



### No Return Path

One-way data flows are enforced by a non-networked serial connection between the MetaDefender BSG server pair.



### Bilateral Support

A mechanism permits data replies while enforcing full protocol break and physical isolation.



### Easy to Deploy

The preconfigured platform deploys quickly and seamlessly.



### Simple to Operate

Ready for use in minutes after one-time initial setup with no firewall audit or configuration needed.

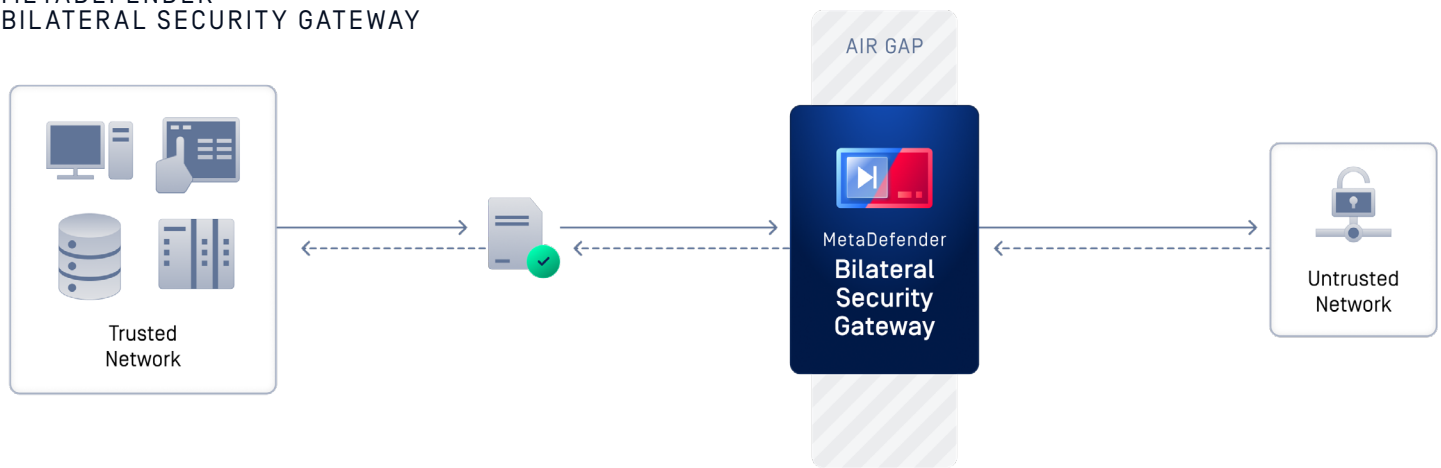


### Scalable

We offer a 100Mbps base platform that can be field upgraded to 1Gbps. Additionally, we offer an option for 10Gbps delivered on enterprise servers.



METADEFENDER  
BILATERAL SECURITY GATEWAY



Use MetaDefender Bilateral Security Gateway for OT data replication with secure response

| Electrical        |                          |
|-------------------|--------------------------|
| Power Supply      | 300W                     |
| Voltage           | 100-240VAC, auto ranging |
| Power Consumption | 150W typical             |

| Hardware       |                                      |
|----------------|--------------------------------------|
| Dimensions     | 19 x 1.75 x 14.5" (483 x 44 x 368mm) |
| Weight         | 23lb (10.4kg)                        |
| Operating Temp | 50 to 95°F (10 to 35°C)              |
| MTBF           | >50,000 hours                        |
| Mounting       | 1U rack kit included                 |

| Other Specifications |                                            |
|----------------------|--------------------------------------------|
| Connectivity         | 2x USB for connecting provided crypto keys |
| Tested Latency       | 0.6ms TCP, 0.7ms UDP                       |



Also available in 2X1U form factor

| Protocol & Certification |                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Industrial               | Modbus<br>OPC (UA, DA, A&E)<br>MQTT<br>MQTT Sparkplug B<br>IEC104<br>ICCP                                                        |
| Industrial Historian     | GE Proficy<br>Aspentech IP.21<br>AVEVA PI<br>CanaryLabs<br>Other historians                                                      |
| IT                       | UDP unicast and multicast, TCP,<br>HTTP, HTTPS, SMTP, NTP forwarding<br>Video/audio stream transfer<br>Ethernet packet transfer  |
| IT Monitoring            | Log transfer<br>SNMP traps<br>Syslog<br>SIEM integration via Syslog<br>GE OSM<br>Screen view                                     |
| Relational Database      | Microsoft SQL<br>Oracle GoldenGate<br>Other relational databases                                                                 |
| File System              | FTP, FTPS, SFTP<br>Folder and file transfer/copy<br>Windows File Share<br>SMB, CIFS<br>Antivirus updates<br>Patch (WSUS) updates |
| Certification            | IEC62443<br>FCC/CE/UKCA                                                                                                          |