

METADEFENDER™

Unidirectional Security Gateway

For Safe OT/IT Communication

MetaDefender Unidirectional Security Gateway (USG) 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. MetaDefender USG enforces one way data flows while guaranteeing payload delivery and preventing data loss and retransmission.



Key Features



Guaranteed Payload Delivery

Absolutely no data loss.



Anti-Overrun Control

Eliminate data overflow, retransmissions, and sync issues.



No Return Path

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



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.



High-Availability

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



Transparent to Users

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

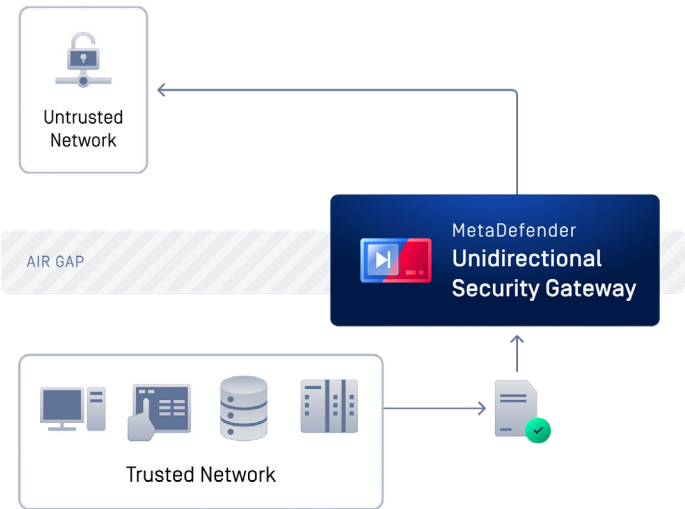


Industrial Cybersecurity Compliance

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.

METADEFENDER
UNIDIRECTIONAL SECURITY GATEWAY

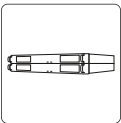
Deployment



MetaDefender Unidirectional Security Gateway
assures no way back to the OT network

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
- Prevent malicious C&C communications from the OT network
- Protect networks, devices, historians, SCADA, DCS, HMIs, and PLCs
- Secure the transfer of software updates and other files to the protected domain



Also available in 2X1U form factor

OPSWAT.

Protecting the World's Critical Infrastructure

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

Protocol & Certification

Industrial	Modbus OPC (UA, DA, A&E) MQTT MQTT Sparkplug B IEC104 DNP3 AVEVA PI Historian ICCP
IT	UDP unicast and multicast, TCP, HTTP, HTTPS, SMTP, NTP forwarding Video/audio stream transfer Ethernet packet transfer
IT Monitoring	Log transfer SNMP traps SYSLOG SIEM integration via Syslog Screen view
File System	FTP, FTPS, SFTP Folder and file transfer/copy Windows File Share SMB, CIFS Antivirus updates Patch [WSUS] updates
Certification	Common Criteria EAL 4+ FCC/CE/UKCA

*Actual latency results may vary according to setup used, traffic characteristics, and network topology.