

# WATERFALL FOR MICROSOFT MQ

## SECURE REPLICATION OF MICROSOFT MQ QUEUE MANAGER

Microsoft MQ uses message queues to transport data and to connect to a wide range of applications and environments. Sending such messages through industrial firewalls introduces significant risks, as all connections through firewalls introduce attack opportunities. Waterfall for Microsoft MQ enables industrial networks to replicate Microsoft MQ message queues to enterprise networks, without risk to safe and continuous operation of industrial networks.

The Waterfall for Microsoft MQ connector software securely replicates Microsoft MQ Queue Manager servers to enterprise networks. Enterprise users access the replicas normally and bidirectionally without risk to the original OT network. The Waterfall for Microsoft MQ connector enables businesses to leverage operations data throughout their enterprises without exposing operations networks to cyber risk.

Waterfall's simple installation, configuration and monitoring tools make it easy for users. Comprehensive diagnostics include real-time alarms that alert the user of fault conditions via Syslog, Windows logs, email, SNMP traps, log files, and Waterfall's monitoring console.

## BENEFITS OF USING WATERFALL FOR MICROSOFT MQ



Secure replication of Microsoft MQ Queue Manager



Simple deployment – connector runs entirely in the Unidirectional Gateway with simple web user interface



Eliminates remote-control cyber attacks and online malware propagation



Facilitates compliance with NERC CIP, NIST 800-82, ANSSI, IEC 62443 and more



Maximum utilization of all Microsoft MQ features



Power



Pipelines



Rail



Water



Facilities

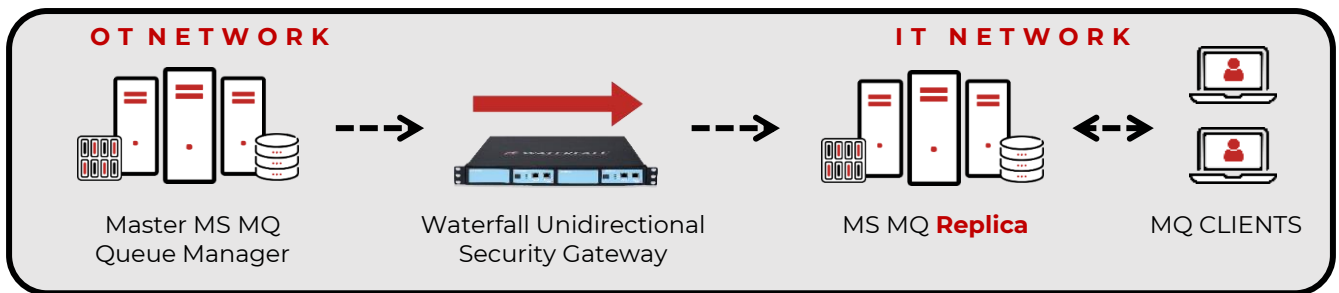


Manufacturing

## WATERFALL FOR MICROSOFT MQ

The Waterfall for Microsoft MQ connector software replicates in real-time a master Microsoft MQ Queue Manager located in the operations network, to a replica Microsoft MQ Queue Manager located on the enterprise network. Designed specifically for OT security, Waterfall for Microsoft MQ makes inbound data flows from enterprise to industrial networks physically impossible. Critical operations assets are now absolutely protected against any threats of remote cyber-attack, incoming malware, or human errors originating on external networks.

Waterfall for Microsoft MQ communicates directly with the Microsoft MQ Queue Manager, ensuring the real-time replication of alerts, messages and archived messages. Waterfall for Microsoft MQ provides real-time replication for Microsoft MQ Queue Manager installations with unlimited number of messages. Users can continue to access and utilize the Microsoft MQ information originating in the industrial network while supporting enterprise-wide business and operational objectives without cyber risk to operations.



## FULLY- FEATURED & ROBUST SUPPORT:

- » Filters Microsoft MQ data based on queue manager name and queue name
- » Supports server and client modes on each side of the gateway
- » Supports spoofing of message headers
- » Optional creation of an archive queue that stores a copy of all messages before transmission to the corporate network
- » 1-10 Gbps standard throughput
- » Fully transparent to Microsoft MQ users

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### ABOUT WATERFALL

Waterfall Security Solutions' unbreachable OT cybersecurity technologies keep the world running. For more than 15 years, the most important industries and infrastructure have trusted Waterfall to guarantee safe, secure, and reliable operations. The company's growing list of global customers includes national infrastructures, power plants, nuclear generators, onshore and offshore oil and gas facilities, refineries, manufacturing plants, utility companies, and more. Waterfall's patented Unidirectional Gateways and other solutions combine the benefits of impenetrable hardware with unlimited software-based connectivity, enabling 100% safe visibility into industrial operations and automation systems.

Waterfall's products are covered by U.S. Patents 7,649,452, 8,223,205, and by other pending patent applications in the US and other countries. "Waterfall", the Waterfall Logo, "Stronger than Firewalls", "In Logs We Trust", "Unidirectional CloudConnect", and "CloudConnect, and "One Way to Connect" are trademarks of Waterfall Security Solutions Ltd. All other trademarks mentioned above are the property of their respective owners. Waterfall Security reserves the right to change the content at any time without notice. Waterfall Security makes no commitment to update content and assumes no responsibility for any mistakes in this document. Copyright © 2023, Waterfall Security Solutions Ltd. All Rights Reserved. [www.waterfall-security.com](http://www.waterfall-security.com)