

# WATERFALL FOR ActiveMQ™

## SECURE REPLICATION OF APACHE ACTIVEMQ™ QUEUE MANAGER

Apache ActiveMQ 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 ActiveMQ enables industrial networks to replicate ActiveMQ message queues to enterprise networks, without risk to safe and continuous operation of industrial networks.

The Waterfall for ActiveMQ connector software securely replicates ActiveMQ Queue Manager servers to enterprise networks. Enterprise users access the replicas normally and bidirectionally without risk to the original OT network. The Waterfall for ActiveMQ 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 ACTIVEMQ



Secure replication of ActiveMQ Queue Manager



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



Elimination of remote-control cyber attacks and online malware propagation



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



Maximum utilization of ActiveMQ features



Power



Oil & Gas



Rail



Facilities



Water



Manufacturing

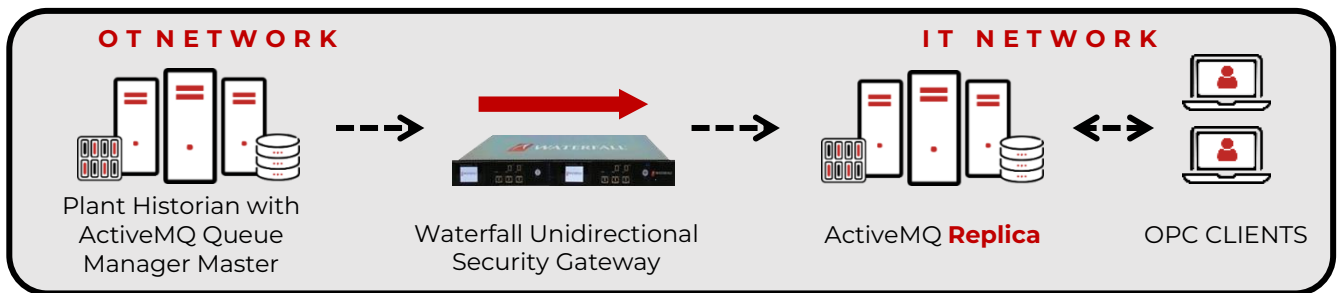


Government

## WATERFALL FOR ACTIVEMQ

The Waterfall for ActiveMQ software connector replicates in real-time a Master ActiveMQ Queue Manager located in the operations network, to a replica ActiveMQ Queue Manager located on the enterprise network. Designed specifically for OT network environments, Waterfall for ActiveMQ 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 viruses, or human errors originating on external networks.

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



## FULLY- FEATURED & ROBUST SUPPORT:

- » Filters ActiveMQ data based on queue manager name and queue name
- » Supports Server and Client modes on each side of the gateway
- » Supports spoofing of message header
- » Optional creation of an archive queue that stores a copy of all messages sent to the enterprise network
- » Fully transparent to ActiveMQ users
- » Standard 1-10Gbps connectivity

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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.waterfallsecurity.com](http://www.waterfallsecurity.com)