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 replications 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
- Elimination of remote control cyber attacks and online malware propagation
- Facilitating compliance with NERC CIP, NIST, CFATS, ANSSI, UK DfT and more
- Maximum utilization of all ActiveMQ features
- Simple deployment, off-the-shelf solution

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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.

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 before sent to the corporate network

Standard 1Gbps connectivity

Fully transparent to ActiveMQ users