

# WATERFALL FOR YOKOGAWA

## SECURE PROCESS DATA REPLICATION

Waterfall Security is a trusted partner of Yokogawa, securing the IT/OT connection in Yokogawa OPC deployments for many mutual customers worldwide. The Exaquantum data historian is one of the most comprehensive Plant Information Management Systems (PIMS) available for process industries. Exaquantum can acquire data from all facets of a process and transform that data into easily usable, high-value, widely distributed information.

Waterfall for Yokogawa is part of the Waterfall Unidirectional Security Gateway family of solutions, providing safe enterprise visibility into operations, with disciplined control. By deploying Waterfall for Yokogawa, businesses achieve safe IT/OT integration, eliminating the risk of remote cyberattacks entering their industrial control systems, while enabling seamless access to critical operational data for improved efficiencies.

**YOKOGAWA** 

Co-innovating tomorrow™

## BENEFITS OF WATERFALL FOR YOKOGAWA



Safe, secure, replication of OPC-DA servers to enterprise networks



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



Fully transparent to Yokogawa OPC system users



Power



Oil & Gas



Rail



Facilities



Water

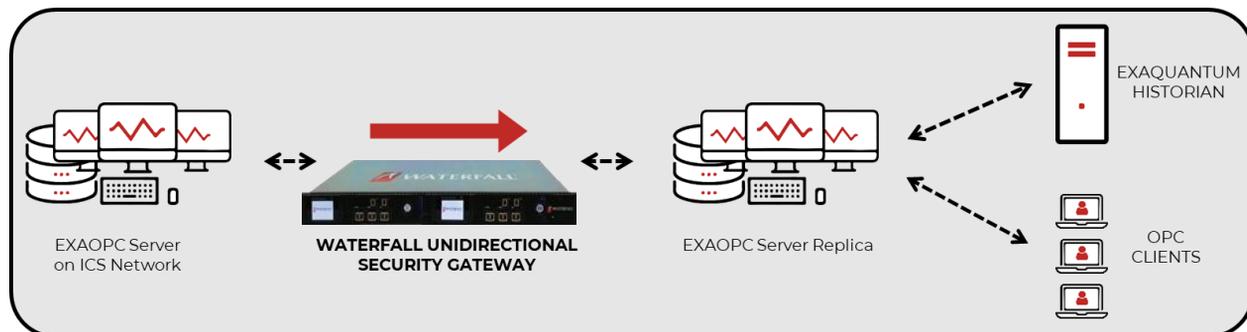


Manufacturing



Government

## WATERFALL FOR YOKOGAWA



The Waterfall for Yokogawa/OPC connectors are simple to install, with user-friendly, web-based configuration and monitoring tools. Comprehensive diagnostics include real-time alarms that alert users of fault conditions via Syslog, Windows logs, email, SNMP traps, log files and Waterfall's monitoring console.

Waterfall for Yokogawa replicates OPC-DA and HDA servers in real-time from industrial networks to enterprise networks, without the risks that always accompany firewalls. Users and Exaquantum systems interact normally and bi-directionally with replica servers, keeping industrial networks safe from remote cyber attacks. The Waterfall Unidirectional Gateway hardware deployed between the two networks makes it physically impossible for any attacks to flow from the corporate network into the industrial network, eliminating any threats of online remote attacks, malware or human errors.

### FULLY- FEATURED & ROBUST SUPPORT:

- » Developed and validated in conjunction with Yokogawa, with support for ExacOPC, Exaquantum, and CI Server
- » Supports all tag types: OPC-DA, OPC-HDA, and OPC-UA
- » Supports an unlimited number of OPC tags
- » Automatic tag discovery and propagation of tags, from ICS servers to their replicas on the enterprise network
- » 1-10 Gbps throughput standard & High Availability options

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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)