

WATERFALL FOR OPC UA ALARMS & CONDITIONS

STRONG SECURITY FOR OPC UA

Industrial enterprises frequently need enterprise-wide access to control system OPC UA Alarms and Conditions (OPC UA/A&C) for trending, analysis, optimization and reporting tools. Connecting enterprise networks to industrial OPC UA/A&C sources through a firewall, however, is high risk. All connections through firewalls that permit data to leave an industrial system also permit attacks to enter that system.

The Waterfall for OPC UA Alarms & Conditions connector is part of the Waterfall Unidirectional Security Gateway family of products. The connector replicates OPC UA/A&C servers unidirectionally and in real-time, from industrial networks to IT networks, without the risks that always accompany firewalls.

Waterfall for OPC UA/A&C connector is simple to install, with powerful web-based configuration and monitoring tools. Comprehensive diagnostics include real-time alarms via Syslog, Windows logs, email, SNMP traps, log files, and Waterfall's monitoring console.

BENEFITS OF USING WATERFALL FOR OPC UA/A&C



Securely replicates Alarms & Conditions from ICS OPC UA servers to IT networks



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



Not physically able to transmit any remote attacks or malware propagation from external networks into protected networks



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



Fully transparent to OPC UA/A&C system users



Power



Pipelines



Rail



Water

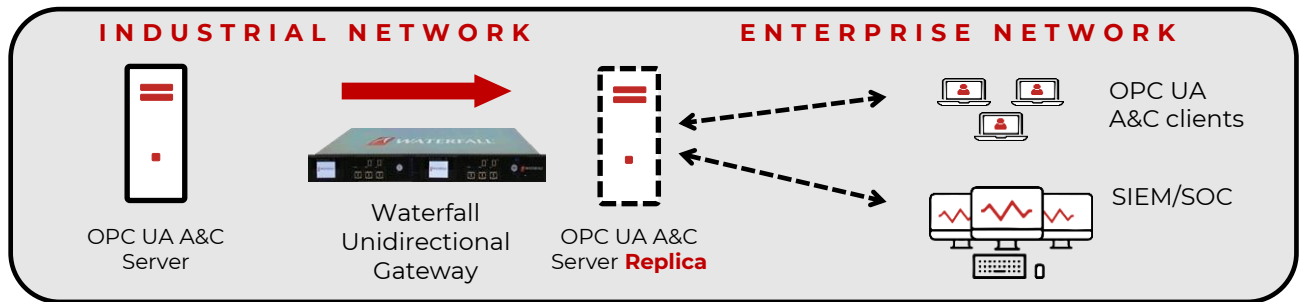


Facilities



Manufacturing

WATERFALL FOR OPC UA/A&C



The Waterfall for OPC UA/A&C connector replicates Alarms & Conditions servers from industrial / OT networks to IT networks through the Unidirectional Gateway hardware. On the OT network, the connector is a true OPC UA/A&C client that queries the source OPC A&C server for alarms, events and other conditions. On the enterprise network, the connector is a true OPC UA/A&C server that is a real-time replica of the industrial OPC server. OPC clients on the enterprise network can query the replica server and be confident of receiving the same alarms and conditions from the replica as would have been received from the original server.

It is not physically for attacks to flow from the IT network back into the OT network through the Waterfall Unidirectional Gateway hardware. Waterfall Unidirectional Gateways with Waterfall for OPC UA/AC enable safe IT/OT integration.

FULLY- FEATURED & ROBUST SUPPORT:

- » Real-time replication of OPC UA/A&C servers
- » Supports all OPC UA Alarms & Condition types
- » Complete server replication or replication of only select, filtered alarms and conditions
- » Optional High Availability functionality with no single point of hardware failure
- » Auto-discovery of available alarm and condition types and subscriptions
- » 1-10 Gbps throughput standard

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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