WATERFALL FOR OPC ALARMS & EVENTS

STRONG SECURITY FOR OPC A&E

Industrial enterprises frequently need enterprise-wide access to control system OPC Alarms and Events (OPC A&E) to understand events and upset conditions in operations. Connecting enterprise networks to industrial OPC 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 A&E connector is part of the Waterfall Unidirectional Security Gateway family of products. The connector replicates OPC A&E servers in real-time, from industrial networks to IT networks, without the risks that always accompany firewalled connectivity. By deploying the connector, businesses eliminate the risk of remote cyber attacks entering their industrial control systems because of A&E connections, while enabling seamless, enterprise-wide access to critical operational data.

Waterfall for OPC A&E connectors are simple to install, with user-friendly configuration and monitoring tools. 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 OPC A&E

Securely replicates OPC Alarms & Events from ICS / OT to IT networks

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

Physically not 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 A&E system users
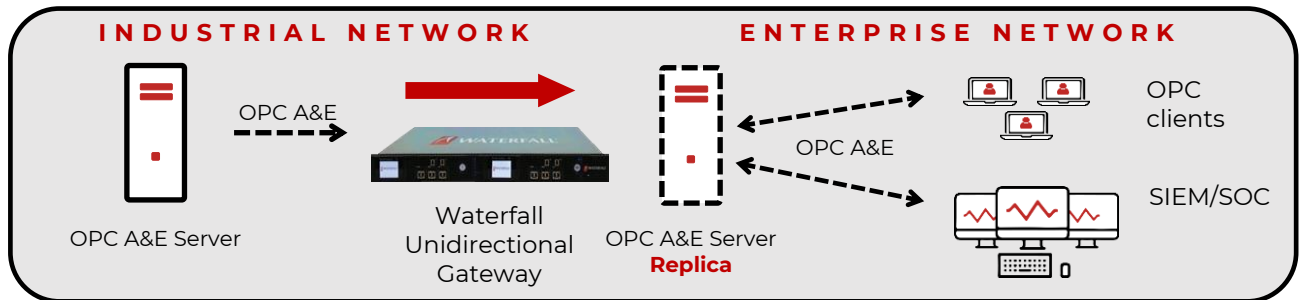
Power   Pipelines   Rail   Water   Facilities   Manufacturing

WATERFALL FOR OPC ALARMS & EVENTS

INDUSTRIAL NETWORK — OPC A&E Server → OPC A&E → Waterfall Unidirectional Gateway → **ENTERPRISE NETWORK** — OPC A&E Server **Replica** ↔ OPC A&E ↔ OPC clients, SIEM/SOC

The Waterfall for OPC A&E connector replicates Alarms & Events servers from industrial / OT networks to IT networks through the Unidirectional Gateway hardware. On the OT network, the connector is a true OPC A&E client that queries the source OPC A&E server for alarms and events. On the enterprise network, the connector is a true OPC A&E 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 events from the replica as would have been received from the original server.

It is physically impossible 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 A&E enable safe IT/OT integration.

FULLY-FEATURED & ROBUST SUPPORT:

» Real-time replication of OPC A&E servers

» Support for all OPC Alarms & Event types

» Complete OPC A&E server replication, or replication of only select, filtered alarms and events

» Auto-discovery of available alarm and event types and subscriptions

» 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.