waterfall

WATERFALL FOR OPC DATA ACCESS

SAFE PROCESS DATA REPLICATION

Industrial enterprises frequently need enterprise-wide access to process data via OPC DA for trending, analysis, optimization and reporting functions. Connecting enterprise networks to industrial OPC DA sources through firewalls, 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 Data Access connector replicates OPC DA servers in real-time, from industrial networks to IT networks, without the risks that always accompany firewalls. The Waterfall connector enables safe IT/OT integration, integrating seamlessly with OPC DA clients and servers. Waterfall's OPC DA connector enables businesses to eliminate the risk of remote cyber attacks entering their industrial control systems while enabling seamless, enterprise-wide access to operational data.

Waterfall for OPC Data Access is simple to install, with user-friendly, web-based 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 DA

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Securely replicates OPC DA and servers from ICS/OT to IT networks

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

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

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

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Fully transparent to OPC DA system users

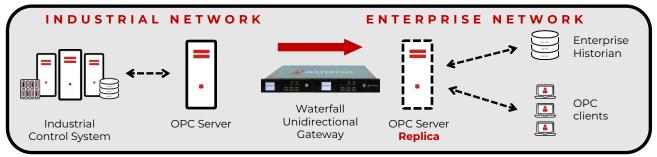Power   Oil & Gas   Rail   Facilities   Water   Manufacturing   Government

WATERFALL FOR OPC DA

INDUSTRIAL NETWORK

Industrial Control System

OPC Server

Waterfall Unidirectional Gateway

OPC Server **Replica**

ENTERPRISE NETWORK

Enterprise Historian

OPC clients

The Waterfall for OPC DA connector replicates an OPC DA server located on the ICS or operations network, to a replica OPC server located on the enterprise network, in real time. Designed specifically for ICS security, On the OT network, Waterfall for OPC DA is a true OPC client that queries the source OPC server for industrial data. On the enterprise network, the connector is a true OPC DA server that is a replica of the industrial OPC server, responding to OPC clients the same way as the original OPC server would have responded. Enterprise users can continue to access and utilize the OPC DA information originating in the industrial network in real-time while supporting business and operational objectives enterprise-wide, without cyber risk to operations.

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 DA enable safe IT/OT integration.

FULLY-FEATURED & ROBUST SUPPORT:

» Faithful, real-time replication of OPC DA servers from OT to IT networks

» Automatic discovery of new OPC tags in industrial servers and automatic real-time propagation of those tags to the IT replicas

» Supports an unlimited number of OPC tags

» 1-10 Gbps throughput standard & High Availability options

INFO@WATERFALL-SECURITY.COM | **WWW.WATERFALL-SECURITY.COM**

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.