waterfall

WATERFALL FOR OPC UA DATA ACCESS

SAFE PROCESS DATA REPLICATION

Industrial enterprises frequently need enterprise-wide access to industrial data via OPC UA Data Access for trending, analysis, optimization and reporting functions. Connecting enterprise networks to industrial OPC UA 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 Data Access connector is part of the Waterfall Unidirectional Security Gateway family of products. The connector replicates OPC UA servers unidirectionally and in real-time, from industrial networks to IT networks, without the risks that always accompany firewalls.

Waterfall for OPC UA 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 UA

Securely replicates OPC UA data and servers from ICS/OT 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 system users for Data Access

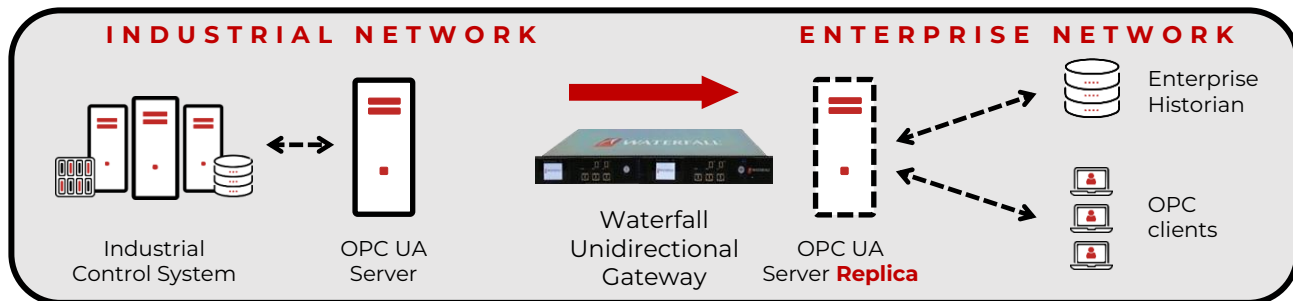Power   Oil & Gas   Rail   Facilities   Water   Manufacturing   Government

WATERFALL FOR OPC UA DATA ACCESS

The Waterfall for OPC UA Data Access connector replicates OPC UA/DA servers from industrial / OT networks to IT networks through the Unidirectional Gateway hardware. On the OT network, the connector is a true OPC UA/DA client that queries a source OPC Data Access server for tags, values and other industrial data. On the enterprise network, the connector is a a true OPC UA/DA 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 OPC data 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 DA enable safe IT/OT integration.

FULLY-FEATURED & ROBUST SUPPORT:

» Faithful, real-time replication of OPC UA 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

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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.