

WATERFALL FOR OPC DATA ACCESS

SAFE PROCESS DATA REPLICATION

Industrial enterprises frequently need enterprise-wide access to process data via OPC-DA and OPC-UA for trending, analysis, optimization and reporting tools. Connecting enterprise networks to industrial OPC-DA 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 Data Access connector replicates OPC-DA and OPC-UA 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 and OPC-UA 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



Securely replicates OPC-DA and OPC-UA servers from ICS to IT networks



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



Eliminates all remote attacks and malware propagation from external networks



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



Fully transparent to OPC-DA and OPC-UA system users



Power



Pipelines



Rail



Water

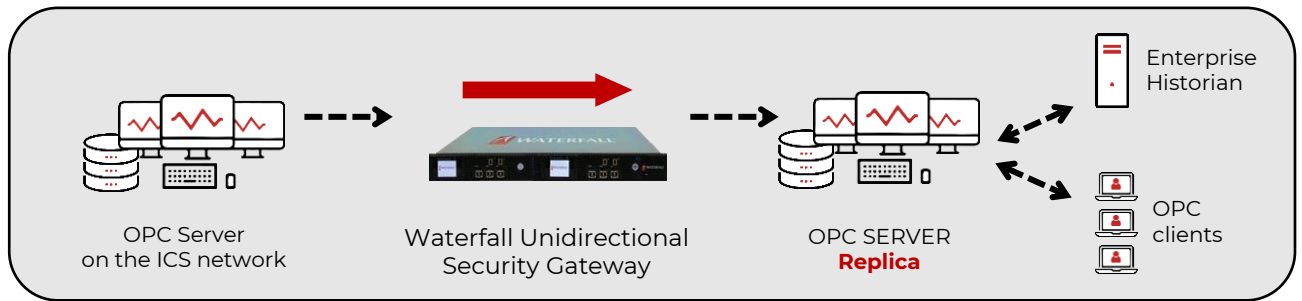


Facilities



Manufacturing

WATERFALL SOLUTION FOR OPC-DA



The Waterfall for OPC-DA connector replicates in real time an OPC server located on the ICS or operations network, to a replica OPC server located on the enterprise network. Designed specifically for ICS security, Waterfall for OPC-DA makes inbound data flows from enterprise to industrial networks physically impossible. Critical operations assets are now absolutely protected against any threats of remote cyber-attack, incoming malware or human errors originating on external networks.

On the ICS side, 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 server that is a replica of the industrial OPC server. OPC clients on the enterprise network can query the replica server and be confident of receiving the same answers from the replica as would have been received from the original server. Users can continue to access and utilize the OPC-DA and UA information originating in the industrial network in real-time while supporting business and operational objectives enterprise-wide, without cyber risk to operations.

FULLY- FEATURED & ROBUST SUPPORT:

- » Faithful, real-time replication of OPC-DA and OPC-UA servers from ICS to IT networks
- » Automatic discovery of new OPC tags in ICS 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.

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