WATERFALL FOR OPC UA HISTORICAL DATA ACCESS

SAFE PROCESS DATA REPLICATION

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

Waterfall for OPC UA HDA 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 & FEATURES
WATERFALL FOR OPC UA/HDA

Securely replicates OPC UA/HDA 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/HDA system users

Power   Oil & Gas   Rail   Facilities   Water   Manufacturing   Government

WATERFALL FOR OPC UA/HDA

INDUSTRIAL NETWORK   **ENTERPRISE NETWORK**

Industrial Control System | OPC UA HDA server | Waterfall Unidirectional Security Gateway | OPC UA HDA server **Replica** | Enterprise Historian

The Waterfall for OPC UA/HDA connector replicates in real time an OPC UA/HDA server located on the industrial or operations network, to a replica OPC server located on the enterprise or IT network. Designed specifically for industrial security, Waterfall for OPC UA/HDA 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 OT side, Waterfall for OPC UA/HDA is a true OPC client that queries the source OPC server for industrial data. On the enterprise network, the connector is a true OPC UA/HDA 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.

FULLY-FEATURED & ROBUST SUPPORT:

» Faithful, real-time replication of Historical Data Access functions and data in OPC UA servers from OT to IT networks

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

» Supports an unlimited number of OPC UA/HDA tags

» Automatic backfill option

» 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.