

WATERFALL FOR HTTP REQUEST

FLEXIBLE & SECURE HTTP(S) CLIENT & SERVER REPLICATION

Industrial enterprises rely on the Hypertext Transfer Protocol (HTTP) request mechanism for general purpose data transfer between networks. Due to HTTP's flexibility, it can bridge industrial, enterprise, and Internet resources together for many ready-made and custom applications and services. Opening up HTTP ports on an industrial firewall, however, is high risk. All connections through firewalls that permit HTTP traffic to leave an industrial system also permit attacks to enter that system.

Running entirely within Waterfall's Unidirectional Gateway, the HTTP(S) connector enables seamless IT/OT integration of HTTP client and server connections, maximizing access to applications and data for improved operational efficiencies, without the risks that always accompany IT/OT firewalls.

Waterfall for HTTP(S) 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 UDP



Secure, unidirectional HTTP(S) server and client replication



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



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



Physically not able to transmit any remote attacks or malware propagation from external networks into protected networks



Supports server and client modes on each side of the gateway



Power



Oil & Gas



Rail



Facilities



Water



Manufacturing



Government

WATERFALL SOLUTION FOR HTTP(S)



Waterfall for HTTP(S) is part of the Waterfall Unidirectional Security Gateway family of products. On the industrial network, the connector is most often an HTTP(S) web server, receiving POST requests from industrial systems. On the enterprise network, the connector is most often an HTTP(S) client, posting files and other content to enterprise web applications and servers.

Waterfall for HTTP(S) secures the data transmission process against the possibility of propagating any cyber threats from enterprise networks back into industrial networks through the gateway. HTTP(S) POST destination servers and addresses are controlled entirely by the configuration of the enterprise side of the Waterfall for HTTP(S) connector. Users on the enterprise network continue to operate as if nothing has changed.

FULLY- FEATURED & ROBUST SUPPORT:

- » Reliable, low-latency HTTP(S) client and server replication to external networks
- » Supports the HTTP Secure (HTTPS) protocol extension for encrypted communications
- » All HTTP(S) connections terminate in the Unidirectional Gateway solution, and no packets or traffic are forwarded between networks
- » 1-10 Gbps throughput & 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