

WATERFALL FOR UDP

FLEXIBLE & SECURE UDP CLIENT & SERVER REPLICATION

Industrial enterprises rely on the User Datagram Protocol for stateless, general purpose packet delivery between networks. Due to UDP's flexibility, it can bridge industrial, enterprise, and Internet resources together for many ready-made and custom applications and services. Opening up UDP ports on an industrial firewall, however, is high risk. All connections through firewalls that permit UDP packets to leave an industrial system also permit attacks to enter that system.

By deploying the Waterfall for UDP connector, businesses eliminate the risk of remote cyberattacks entering industrial control systems. Running entirely within Waterfall's Unidirectional Gateway, the connector enables seamless IT/OT integration of UDP client and server connections, maximizing access to applications and data for improved operational efficiencies

Waterfall for UDP 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 UDP 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



Eliminates remote-control cyber attacks and online malware propagation



Supports server and client modes on each side of the gateway



Power



Pipelines



Rail



Water



Facilities

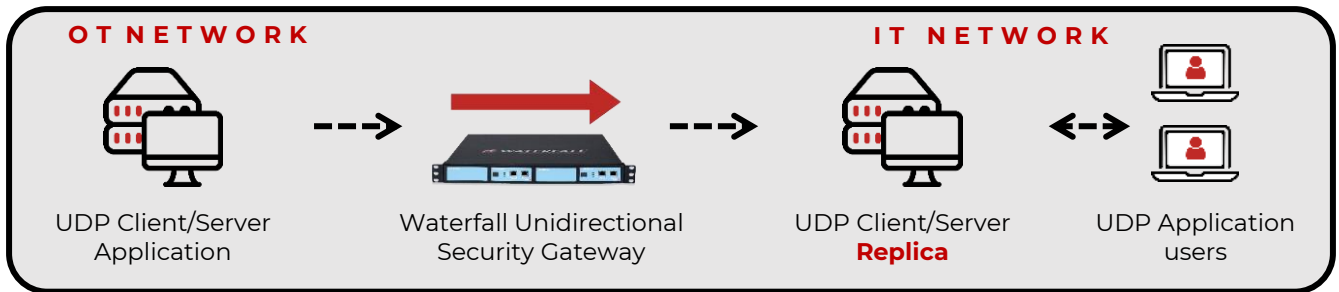


Manufacturing

WATERFALL SOLUTION FOR UDP

Waterfall for UDP is part of the Waterfall Unidirectional Security Gateway family of products. The UDP client/server replication software replicates a UDP client or server in real-time from an industrial network to an enterprise network.

This UDP client/server real-time replication secures the data transmission process against the possibility of propagating any cyber threats from the enterprise network back into the industrial network. Users on the enterprise network continue to operate as if nothing has changed, and UDP client/server transmission continues securely through the replicas without fear of slowing down or impairing the operation of critical systems on the industrial control network. UDP communication replication provides secure and seamless enterprise-wide integration between IT/OT networks, securing the safety and reliability of the protected network with hardware-enforced technology.



FULLY- FEATURED & ROBUST SUPPORT:

- » Reliable, low-latency UDP client and server replication to external networks
- » All UDP connections terminate in the Unidirectional Gateway solution - no packets or traffic are forwarded between networks
- » 1-10 Gbps throughput standard
- » Supports UDP packet filtering
- » Sophisticated controls over source and destination network UDP connectivity, encryption and content

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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