

WATERFALL FOR DNP3

SECURE ENTERPRISE MONITORING OF DNP3 DEVICES

Industrial enterprises frequently need enterprise-wide access to data from devices supporting the DNP3 industrial communications protocol. Connecting enterprise networks to DNP3 devices through firewalls is high risk, however, as all connections through firewalls introduce attack opportunities. The Waterfall for DNP3 connector enables industrial networks to replicate industrial devices to enterprise networks, without risk to the safe and continuous operation of industrial networks.

The DNP3 connector securely emulates DNP3 RTUs, protective relays and other devices to enterprise networks. Enterprise users and applications can access the replica devices normally and bi-directionally without risk to the original industrial network. The Waterfall unidirectional hardware physically prevents any attack or malicious command from reaching the protected Modbus devices.

The Waterfall for DNP3 connector is simple to install, with user-friendly, web-based configuration and monitoring tools. Comprehensive diagnostics include real-time alarms that alert users of fault conditions via Syslog, Windows logs, email, SNMP traps, log files and Waterfall's monitoring console.

BENEFITS OF USING WATERFALL FOR DNP3



Secure, real-time unidirectional replication of DNP3 devices to external users & applications



Simple deployment – the connector runs entirely in the Unidirectional Gateway with a 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



SCADA users and applications interact normally with accurate, timely replication of DNP3 devices on their networks



Power



Oil & Gas



Rail



Facilities



Water

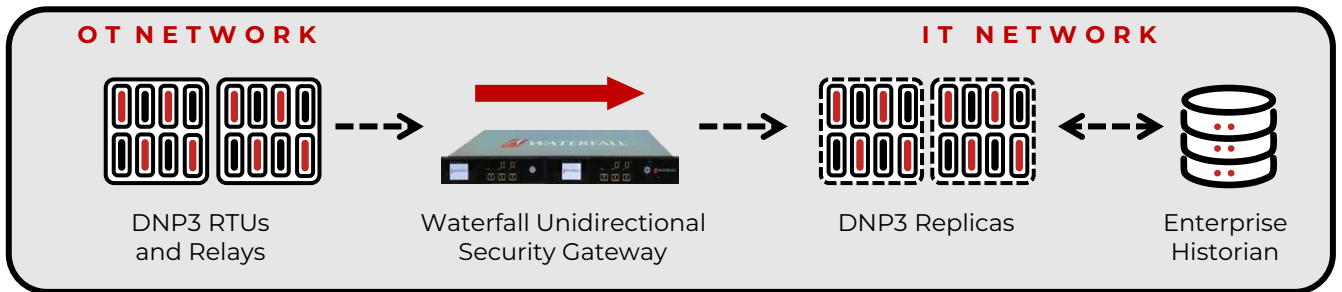


Manufacturing



Government

WATERFALL FOR DNP3



The Waterfall for DNP3 connector is part of the Waterfall Unidirectional Security Gateway family of products. The connector polls RTUs and other DNP3 devices on industrial networks in real time, sends that data across the Unidirectional Gateway hardware, and emulates the DNP3 devices to enterprise users and applications, such as enterprise historians.

Replica DNP3 devices are maintained as a faithful, real-time emulations of the original devices on the industrial network. Enterprise users and applications work with the replicas as if they were the original, industrial devices. Unidirectional replication improves not only security, but performance as well. Users can poll the replicas without fear of slowing down or impairing the operation of critical systems on the industrial control network. DNP3 replication provides enterprise-wide access to industrial data without the need to provide access to industrial devices and networks, securing the safety and reliability of the protected network with hardware-enforced measures. The gateway hardware makes it physically impossible for attacks to flow from the enterprise network towards the industrial network, eliminating any threats of online attacks, malware or human errors.

FULLY- FEATURED & ROBUST SUPPORT:

- » Real-time replication of DNP3 RTUs, IEDs, protective relays and other DNP3 equipment
- » Replicates many DNP3 devices on a single host
- » Supports both DNP3 master and slave replication
- » Supports all DNP3 data types and point types
- » 1-10 Gbps throughput standard & High Availability option
- » DIN-Rail option

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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