



Waterfall Security Solutions Ltd

Schneider Electric Collaborative Automation Partner Program

- Waterfall's Unidirectional Security Gateways are the only unidirectional equipment deployed on the American Department of Homeland Security's National SCADA Security Test Bed, and the only unidirectional equipment to have been assessed for security by Idaho National Laboratories. The gateways are Common Criteria certified EAL4+ (high attack potential) by two different laboratories. The latest NRC, NERC-CIP, ANSSI, DHS, and IEC 62443 cybersecurity standards, best practices, and regulations all encourage the use of Waterfall's Unidirectional Security Gateways.

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Introducing Waterfall Security Solutions

Waterfall Security is the leading provider of network cybersecurity products enabling safe and secure information technology (IT)/operational technology (OT) integration for critical infrastructures, industrial sites, and manufacturing facilities. The company develops products providing stronger-than-firewall protection for industrial control networks. Waterfall Security's Unidirectional Security Gateways™, FLIP™, and Application Data Control technologies are deployed worldwide in all industries and critical infrastructure sectors.

Safe IT/OT Integration

The integration of IT with OT yields tremendous operational benefits, but is it safe?

Waterfall's Unidirectional Security Gateways are a combination of hardware and software that safely and securely integrate operations networks with business networks without introducing the cyber risks that always accompany firewall deployments.

The gateways allow real-time data to flow out to corporate networks and systems, but physically prevent any data back into the control network. Neither viruses, buffer overflows, remote-control attacks, or any information at all can flow back into a protected operations network. Waterfall's Unidirectional Security Gateways absolutely protect the safety and reliability of operations networks from online attacks originating on external networks.

Safety and protection system monitoring

Waterfall's Unidirectional Security Gateways are designed to enable continuous monitoring of Safety Instrumented Systems and equipment protection systems without any risk of introducing an attack channel that might compromise those safety systems. Unidirectional Security Gateways permit integrated monitoring and alerting systems without introducing attack channels able to impair safety and reliability.

Stronger-than-firewalls spectrum

Waterfall Security provides a family of cybersecurity solutions for industrial control networks based on and complementing its world-leading Unidirectional Security Gateways.

Industrial Control System sites worldwide increasingly deal with cyberattacks ranging from disgruntled insiders, to pervasive viruses and botnets, to targeted remote control attacks. These attacks routinely defeat firewalls and other IT-focused protections. Every element of the Waterfall solution suite is hardware-enforced, able to defeat even advanced online attacks.

The Waterfall FLIP is a kind of Unidirectional Security Gateway that can "reverse polarity" according to a schedule to permit antivirus signatures, and manage receipts and other updates to be sent into protected networks in a controlled manner. Inbound/outbound pairs of Unidirectional Security Gateways can be deployed in stronger-than-firewall configurations to support continuous replications of servers in two directions without introducing the vulnerabilities that always accompany firewalls. Waterfall's Secure Bypass technology can be deployed in parallel with Waterfall's Unidirectional Gateways to provide bi-directional remote access for the duration of control system and plant emergencies.

Installed base

Waterfall's products are deployed throughout North America, Europe, Asia, and the Middle East in power plants, nuclear plants, on/off-shore platforms, refineries, manufacturing plants, utility companies, and many other industries.

Unique value proposition

Waterfall provides safe and secure data sharing and integration between control networks and external networks. They enable safe and secure IT/OT integration, remote monitoring, industrial cloud services, vendor connections, and more.



Markets served

● Primary sectors of activity ● Secondary sectors of activity

End user					OEM					
Food & Beverage	Water/Wastewater	Oil & Gas	Mining, Minerals & Metal	Power/Electrical Energy	Hoisting	Lift	Packaging	HVAC & R	Conveying	Textile
●	●	●	●	●	●	●	●	●	●	●

Areas of expertise

Cyber security Network perimeter protection

Authorized CAPP products

Authorized CAPP products	Product description	Distinguishing characteristics
Waterfall Unidirectional Gateways	Server replication via unidirectional communications.	Provides absolute protection from online attacks originating on external networks.
Waterfall Flip™	A type of Unidirectional gateway with reversible orientation.	Supports continuous replications of servers in two directions without introducing the vulnerabilities that accompany firewalls.

For more detailed product information, please consult: www.waterfall-security.com

schneider-electric.com

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