WATERFALL®
Stronger Than Firewalls

SECURE BYPASS 🔑
PHYSICAL CONTROL OVER REMOTE SUPPORT

Remote access to industrial control systems is high risk: stolen passwords and two-factor devices introduce vulnerabilities to control systems. In addition, when a firewall is hacked, attackers gain direct access to critical systems, while third-party personnel threaten reliable operations when remote changes are made outside of a site's change control procedures. The Waterfall Secure Bypass Module provides physical protection for emergency and other remote support mechanisms, and gives the industrial site physical control over enabling the frequency and duration of remote access.

Protecting industrial sites worldwide since 2007
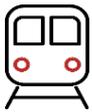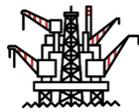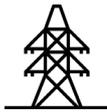
| Rails | Oil & Gas | Power | Manufacturing | Water | Facilities |

PHYSICAL PROTECTION
from vulnerabilities inherent to software-based VPN and other remote access technologies

PHYSICAL CONTROL
over the frequency and duration of remote access

WATERFALL®
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REDUCES ERRORS & OMISSIONS
built-in timer automatically disconnects remote access and restores unidirectional state

SECURE & DISCIPLINED REMOTE ACCESS
for unidirectionally-protected sites

Shield remote access from attacks

On-site control of remote access

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Theory of Operation

Waterfall's Secure Bypass Module is deployed in parallel with Unidirectional Security Gateways. While the module is not engaged, the Gateways provide 100% protection from external online attacks. When activated, the Secure Bypass Module enables time-limited bi-directional connectivity to a unidirectionally-protected network for plant emergencies and scheduled changes as well as vendor, IT, internal support and other remote access needs.

When remote connectivity is enabled, the Secure Bypass Module electrically connects remote-access equipment to an external network. The SBP Module can be activated with a physical button or key, on a timer, or by a signal from the protected network. A timer in the Module automatically disconnects the remote-access equipment again after a preset interval. While the Secure Bypass Module is engaged, the Unidirectional Gateway continues to operate without interruption.

PLCs & RTUs   INDUSTRIAL DATABASE

INDUSTRIAL NETWORK

SECURE BYPASS

REPLICA DATABASE   USER STATIONS

CORPORATE NETWORK

UNIDIRECTIONAL SECURITY GATEWAY
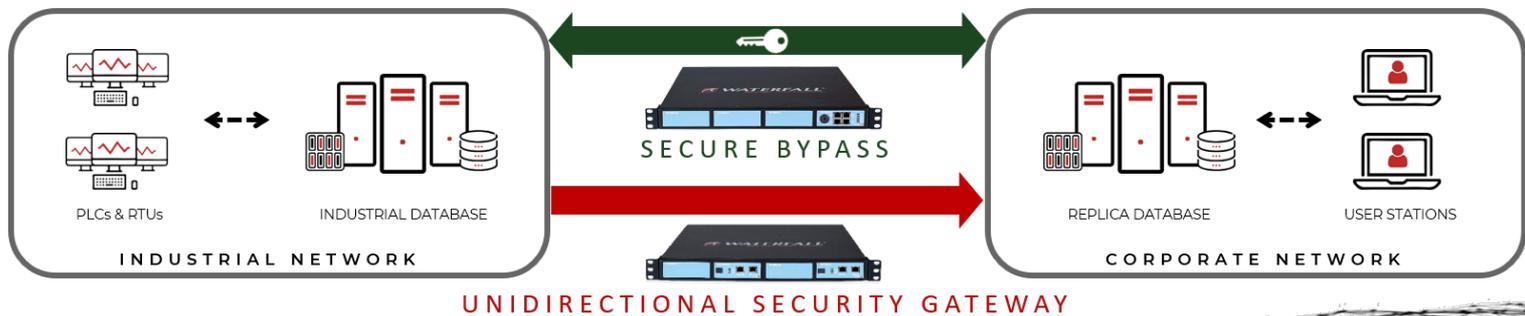
UNIDIRECTIONAL CONNECTIVITY WITH TEMPORARY REMOTE ACCESS

1
CONNECT
the industrial network safely to the IT network

2
PROTECT
the industrial network with hardware enforced technology

3
ACTIVATE
bi-directional communications temporarily

4
ACCESS
the industrial network remotely

ABOUT WATERFALL SECURITY

Waterfall Security Solutions is the OT security company, producing a family of Unidirectional Gateway technologies and products that enable enterprise-wide visibility for operations, with disciplined control. Waterfall products represent an evolutionary alternative to firewalls. The company's growing list of customers includes national infrastructures, power plants, nuclear plants, off and on shore oil and gas facilities, refineries, manufacturing plants, utility companies, and many more. Deployed throughout North America, Europe, the Middle East and Asia, Waterfall products support the widest range of leading industrial remote monitoring platforms, applications, databases and protocols in the market. For more information, please contact info@waterfall-security.com