

SPECTRUM OF SOLUTIONS



UNIDIRECTIONAL SECURITY GATEWAYS

100% VISIBILITY WITH DISCIPLINED CONTROL

Waterfall's Unidirectional Security Gateways provide hardware-enforced stronger than firewalls solutions for critical industrial networks. The gateways enable safe IT/OT integration, secure vendor monitoring and full visibility into operations at the same time providing absolute protection from attacks originating on external networks. Unidirectional Gateways replace at least one layer of firewalls in industrial network environments, sending real-time data to business networks while enabling operational processes to continue reliably.



WF-500



DIN RAIL

FLIP[®] SECURE BYPASS INBOUND/OUTBOUND

DISCIPLINED REMOTE ACCESS

The FLIP physically reverses a built-in Unidirectional Security Gateway allowing for safe and disciplined scheduled updates.



FLIP

Waterfall's unidirectional technology is not limited to a single direction. Our array of plug-n-play solutions enforce disciplined remote control and remote access for industrial sites working with remote vendors and service providers, 3rd party personnel and unstaffed sites.

The Secure Bypass Module enables on-site, physical control over remote access connections.



SECURE BYPASS

Independent inbound and outbound application replications for secure remote control of substations, pumping stations and other unstaffed sites.



INBOUND/OUTBOUND

UNIDIRECTIONAL CLOUDCONNECT[®]

SECURE CONNECTION TO THE INDUSTRIAL CLOUD

Reap the benefits of the Industrial Internet of Things (IIoT) while eliminating the risk of remote attacks with Waterfall's Unidirectional CloudConnect. CloudConnect provides hardware-enforced network protection and real-time unidirectional translation of industrial data sources into Internet-friendly protocols and cloud-friendly formats, while preventing remote attacks from penetrating protected industrial networks.



CLOUDCONNECT

WATERFALL BLACKBOX[®]

IN LOGS WE TRUST

The Waterfall BlackBox prevents attackers from covering their tracks during a cyber breach. The Waterfall BlackBox is a tamper-proof unidirectional high-speed, high-capacity logging and analysis system for forensic data. The BlackBox provides a tamper-proof forensic repository that enables incident responders to reliably access forensic data for effective incident response and recovery.



BLACKBOX

POWER

OIL & GAS

RAILS

IIoT

WATER

CHEMICALS

100+ COTS CONNECTORS

Waterfall connectors can run on customer supplied servers, virtual machines or Waterfall Host Modules. Waterfall connectors are supported on Windows, Linux, Solaris, AIX, VxWorks & other operating systems.

HISTORIANS & DATABASES

- OSIsoft: PI System, PI Asset Framework, PI Backfill
- GE: iHistorian, iHistorian Backfill, OSM
- Schneider-Electric: Wonderware eDNA, Wonderware Historian, Wonderware Historian Backfill, SCADA Expert ClearSCADA
- AspenTech IP.21, Rockwell FactoryTalk Historian, Honeywell Alarm Manager, Scientech R*Time, Bently Nevada System1
- Microsoft SQL Server, Oracle MySQL, PostgreSQL

ENTERPRISE MONITORING

- FireEye: Helix & Managed Defense
- Email/SMTP, SNMP, Syslog
- HP ArcSight, Splunk, IBM QRadar, McAfee ESM, CyberX, Radiflow iSID, ForeScout Silent Defence, Dragos, Indegy
- MSMQ, IBM MQ, Active Message Queue, TIBCO
- SolarWinds Orion, Thales Aramis, IOSight, Panorama

INDUSTRIAL APPLICATIONS & PROTOCOLS

- Siemens S7 & PCS7 Historian
- OPC DA, A&E, HDA, HDA Backfill and OPC UA
- Emerson: EDS,
- Yokogawa OPC, GE iFix
- Modbus, DNP3, ICCC
- IEC 60870-5-104, Omni Flow

FILE TRANSFER

- Folder mirroring, Local Folders
- FTP, FTPS, SFTP, TFTP, SMB, CIFS, NFS, HTTPFS
- Log Mirroring, HTTP Request

REMOTE ACCESS

- Remote Screen View

OTHER CONNECTORS

- TimeSync, Netflow
- Video & audio streaming
- Kaspersky, Norton, FortiGate, Check Point McAfee and OPSWAT Anti-virus updaters
- WSUS and Linux Repository updaters
- Tenable Nessus Network Monitor, Nessus Security Center Updates
- Remote printing

CERTIFICATIONS AND ASSESSMENTS



- » **Certified:** Common Criteria EAL 4+, ANSSI CSPN, NITES Singapore, Korean KC Certification
- » **Assessed by:** US DHS SCADA Security Test Bed & Japanese Control Systems Security Center Bed, Idaho National Labs, Digital Bond Labs, GE Bently Nevada Systems Labs, Israel Testing Laboratories and NISA Israel
- » **Complies with:** global ICS Standards & Regulations, NERC CIP, IEC 62443, NRC 5.71, NIST 800-82r2, CFATS, ISO, IIC SF, ANSSI, and many more.

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