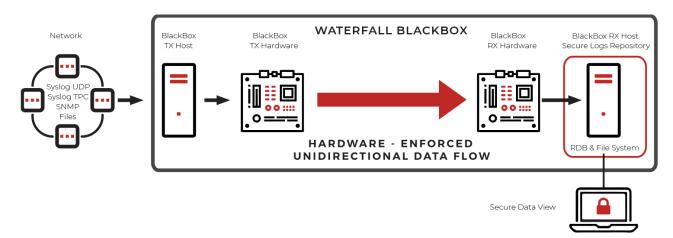## DATA SHEET

WATERFALL BLACKBOX ®

The Waterfall BlackBox provides a tamper-proof, online repository which can survive a cyber attack. It uses **Unidirectional Gateway technology** to gather security-relevant data from industrial networks, such as logs, security information, PLC configuration files, and transmits those data unidirectionally into a secure repository, inaccessible from the monitored network.

The Waterfall BlackBox keeps your logs untampered and secure, preventing modern attackers from deleting or compromising logs and hiding their tracks, ensuring reliable forensics for attack analysis and facilitating effective incident response by providing trustworthy forensic data.

BLACKBOX® UNIDIRECTIONAL TECHNOLOGY 1-2-3

1 GATHERS LOGS   **2** TRANSMITS SAFELY   **3** STORES SECURELY

Network

Syslog UDP
Syslog TPC
SNMP
Files

BlackBox TX Host

BlackBox TX Hardware

WATERFALL BLACKBOX

BlackBox RX Hardware

BlackBox RX Host
Secure Logs Repository

RDB & File System

HARDWARE - ENFORCED
UNIDIRECTIONAL DATA FLOW

Secure Data View

FLIGHT RECORDER FOR FORENSICS

» **TX Host**: securely gathers transaction, log and other data

» **TX Hardware**: securely transmits information to BlackBox RX side for storage

» **Fiber optic cable**: connects BlackBox TX hardware to RX hardware, permitting data flow in one direction only

» **RX hardware**: receives transaction, log and other data and physically prevents any data from going back into the monitored network

» **RX Host**: manages storage repository for logs, RDB, file system and other data, physically outside the monitored network - inaccessible and untouchable

IN LOGS WE TRUST®

HARDWARE SPECIFICATIONS

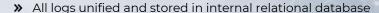| SPECIFICATIONS	
Operating System and Software	500 G SSD
Secure logs repository	4/8 TB SSD
Monitored network Configuration port Secure data access	1 Gbps
Power supply	2 per side (4)
Dimensions (cm)	48.3 x 4.4 x 76 cm
Weight (kg)	8

FEATURES & BENEFITS

SECURE STORAGE

» Hardware-enforced unidirectional protection of logged data
» Tamper-proof storage for logs, transactions & configuration files
» Reliable forensics, incident response & recovery, and audits
» Encryption and authentication of logged information
» No possibility of leaking information between sites

SECURE LOG DATA RETRIEVAL

» Logs accessed via dedicated port
» Powerful graphical data management and retrieval applications
» Full or partial retrieval with search and filter capabilities

DATA MANAGEMENT

» All logs unified and stored in internal relational database
» All recorded data time-stamped and encrypted
» Cyclic & never-overwrite data management options
» Version management for configuration and other files
» Real-time statistics display
» Optional compression

WIDE VARIETY OF DATA SOURCES

» Syslog, SNMP traps, Windows logs
» FTP, SFTP, CIFS/SMB, drag & drop and many other file sources
» System Backups
» SQL Server, Oracle and other relational databases
» Network traffic and NetFlow statistics

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