WATERFALL FOR SIEMENS SIMATIC S7

SECURE ENTERPRISE MONITORING OF SIEMENS SIMATIC S7 DEVICES

Industrial enterprises frequently need enterprise-wide access to data from devices supporting the Siemens Simatic S7 industrial communications protocol. Connecting enterprise networks to Simatic S7 devices through firewalls is high risk, however. Sending such messages through industrial firewalls introduces significant risks, as all connections through firewalls introduce attack opportunities.

The Waterfall for Siemens Simatic S7 connector gathers real-time snapshots of state information on Siemens Simatic S7 devices, sends those snapshots through the Waterfall unidirectional hardware, and replicates the original S7 devices on the enterprise network. Enterprise & SCADA users and applications access the replicated devices bi-directionally, as if they were still communicating with the original devices. The Waterfall for Siemens

Waterfall for Siemens Simatic S7 is simple to install, with user-friendly, web-based configuration and monitoring tools. Comprehensive diagnostics include real-time alarms that alert the user of fault conditions via Syslog, Windows logs, email, SNMP traps, log files, and Waterfall's monitoring console.

BENEFITS OF USING WATERFALL FOR SIEMENS SIMATIC S7

Secure, real-time unidirectional replication of Simatic S7 devices to external SCADA and enterprise networks

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

External users and applications interact normally with accurate, timely replicas of Siemens Simatic S7 devices
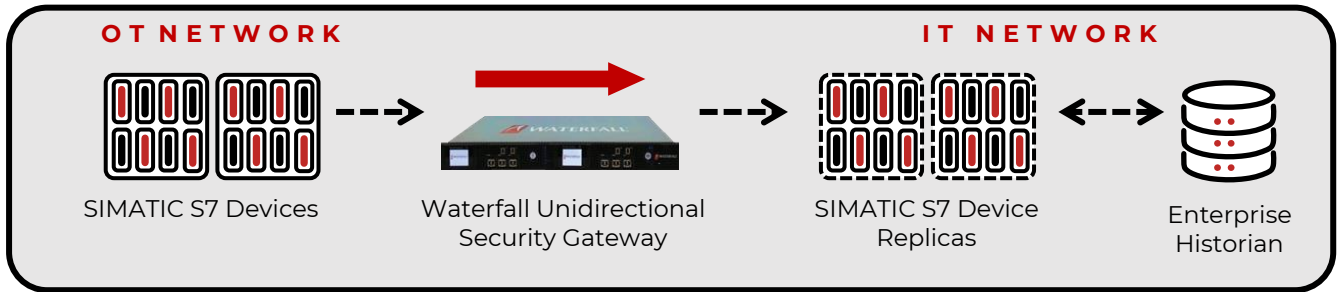
Power   Pipelines   Rail   Water   Facilities   Manufacturing

WATERFALL FOR SIEMENS SIMATIC S7

OT NETWORK   **IT NETWORK**

SIMATIC S7 Devices   Waterfall Unidirectional Security Gateway   SIMATIC S7 Device Replicas   Enterprise Historian

On the OT network, the Waterfall for Siemens Simatic S7 connector acts as a true Simatic S7 master and uses S7 polls and report-by-exception events to gather a snapshot of the state of S7-enabled devices. The connector software sends this snapshot through the unidirectional hardware to the IT network, where the Simatic S7 connector acts as a Simatic S7 replica, and waits for polls from the Simatic S7 master, or reports by exception to that master station.

Enterprises deploying the Waterfall for Simatic S7 connector benefit from increased visibility of industrial data, reduced compliance costs and dramatically reduced cyber risk and incident costs. The Waterfall Unidirectional Gateway appliance makes it physically impossible for attacks to flow from the external network towards the protected network, eliminating any threats of online attacks, malware or human errors.

FULLY-FEATURED & ROBUST SUPPORT:

» Real-time device replication of Siemens Simatic S7 protective relays, RTUs, IEDs, and other Simatic S7 equipment

» Replicates many Simatic S7 devices on a single host

» Supports both Simatic S7 master and slave replication

» Supports all Simatic S7 data types and point types

» 1-10 Gbps throughput standard & High Availability options

» DIN-Rail option

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.