WATERFALL FOR SCIENTECH R*TIME

SAFE NUCLEAR GENERATION MONITORING

The Waterfall for Scientech R*TIME connector provides safe access to real-time and historical data about nuclear power plant performance and operations. Opening paths through firewalls to nuclear generator control systems introduces unacceptable risks to operations, however, since all connections through firewalls introduce potential attack opportunities. Such connections are forbidden by nuclear generation best practices and regulations in many jurisdictions.

The Waterfall for Scientech R*TIME connector is based on Waterfall's Unidirectional Gateway technology, which securely replicates R*TIME data to an enterprise network. The connector enables safe IT/OT integration and seamless integration with enterprise systems without risk to the original industrial network. Waterfall's Scientech R*TIME connector enables businesses to leverage operations data throughout their enterprises without exposing operations networks to cyber risk.

The Waterfall for Scientech R*TIME connector is simple to install, with user-friendly, web-based configuration and monitoring tools. Comprehensive diagnostics include real-time alarms that alert users of fault conditions via Syslog, Windows logs, email, SNMP traps, log files and Waterfall's monitoring console.

BENEFITS OF USING WATERFALL FOR SCIENTECH R*TIME

Secure replication of R*TIME Servers

Simple deployment – connector runs entirely in the Unidirectional Gateway with simple web user interface

Not physically able to transmit any remote attacks or malware propagation from external networks into protected networks

Facilitates compliance with NERC CIP, NIST 800-82, ANSSI, IEC 62443 and more

Maximum utilization of all Scientech R*TIME features

Power   Pipelines   Rail   Water   Facilities   Manufacturing

WATERFALL FOR SCIENTECH R*TIME

INDUSTRIAL   **NETWORK**   **ENTERPRISE NETWORK**

Nuclear Control System Network — Scientech R*TIME Server — Waterfall Unidirectional Security Gateway — **Replica** Scientech R*TIME Server — Enterprise Users

Waterfall for Scientech R*TIME replicates an R*TIME server from a nuclear generating network to an external network. The connector uses standard, built-in R*TIME server replication and synchronization technology to deliver a real-time, faithful replica. External systems and users interact with the replica as if it were the original, live R*TIME system. The Waterfall connector ensures real-time replication of tags, with keep alive and heartbeat information. With Waterfall for Scientech R*TIME, high performance real-time replication is possible even for heavy duty R*TIME installations, supporting an unlimited number of tags.

Waterfall's Unidirectional Gateways physically protect industrial assets, preventing any human errors, malware or cyber attacks, however sophisticated, from penetrating back into the protected industrial network through the gateway device. With Waterfall for Scientech R*TIME, nuclear plant engineers and operators can access plant data on replica servers as if they were accessing the original, protected R*TIME system, without threat to the original system.

FULLY-FEATURED & ROBUST SUPPORT:

» Secure, unidirectional R*TIME replication

» Supports R*TIME tag filtering, keep alive and heartbeat signals

» Generation of periodic R*TIME replication reports

» Elastic buffering prevents congestion, queue overflows and lost data

» 1-10 Gbps standard throughput

» Fully transparent to Scientech R*TIME users

INFO@WATERFALL-SECURITY.COM | **WWW.WATERFALL-SECURITY.COM**

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.