waterfall

WATERFALL FOR BENTLY NEVADA SYSTEM 1

PLANT-WIDE CONDITION MONITORING AND DIAGNOSTICS

Operational monitoring of steam, gas and water turbines is essential to preventive maintenance. However, conventional encrypted and authenticated remote access software solutions represent significant risks to safe and reliable operations. The Waterfall for System 1 connector enables transparent and continuous remote monitoring of the latest turbine status information without putting safe and reliable physical operations at risk.

The Waterfall connector solution is fully integrated and tested by Bently Nevada Labs. The solution enables real-time monitoring of turbine vibration, heat anomaly and other data in System 1 databases for on-site monitoring systems and experts, without ever introducing the threats to safe and reliable operation that always accompany firewalls.

Waterfall for System 1 connectors are simple to install, with user-friendly 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 WATERFALL FOR SYSTEM 1

Seamless and transparent remote monitoring of turbine data for enterprise applications and experts

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

Fully supported by Bently Nevada and monitoring personnel and systems

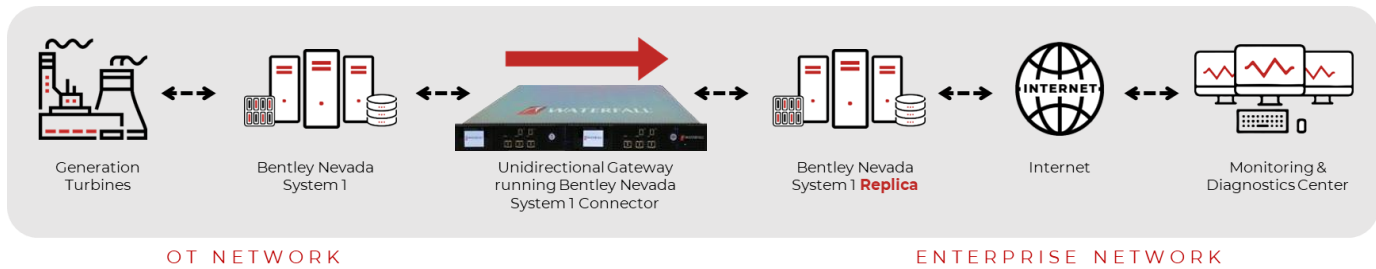Power   Oil & Gas   Rail   Facilities   Water   Manufacturing   Government

WATERFALL FOR SYSTEM 1

Enterprises deploying the Waterfall for System 1 connector enjoy increased visibility of industrial data, reduced compliance costs and dramatically reduced cyber risk and cyber incident costs. The Waterfall for System 1 software connector securely replicates data in real-time, from the OT network to the enterprise network across the Unidirectional Gateway hardware. Designed specifically for OT network environments, Waterfall for System 1 makes inbound data flows from enterprise to industrial networks physically impossible. Critical operations assets are now absolutely protected against any threats of remote cyber-attack, incoming viruses, or human errors originating on external networks.

The replication process is transparent to Bently Nevada experts for monitoring and diagnostics on the enterprise network. The replica System 1 is a faithful, real-time copy of the operational System 1. With the Waterfall solution deployed, IT and business users and applications can access and use the replica in the same way that they would have accessed the operational System 1, without ever putting the live deployment at risk.

FULLY-FEATURED & ROBUST SUPPORT:

» Hardware-enforced unidirectional replication of System 1 industrial databases to an external network

» Real-time replication of schema and attribute changes

» Supports all System 1 data types and attributes

» Supports all System 1 Evolution versions from version 17 onward

» 1-10 Gbps throughput standard & high availability options

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.