WATERFALL FOR EMERSON EDS

SECURE IT/OT INTEGRATION THROUGH DATABASE REPLICATION

Industrial automation enterprises use the Waterfall for Emerson EDS connector for secure remote access to process information and display of real-time process data from multiple locations. The connector enables these businesses to leverage industrial control system data throughout their enterprises.

The Waterfall for Emerson EDS connector enables safe IT/OT integration while maximizing access to Emerson EDS features, capabilities and applications. By deploying the Waterfall for Emerson EDS Connector, businesses eliminate the risk of remote cyberattacks entering their industrial control systems, while enabling seamless access to critical operational data for improved efficiencies.

The Waterfall for Emerson EDS Connector is simple to install, with user-friendly, web-based config-uration 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 EMERSON EDS

Secure, accurate replication of Emerson EDS databases

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

Elimination of remote control cyberattacks and online malware propagation

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

Maximum utilization of all Emerson EDS features

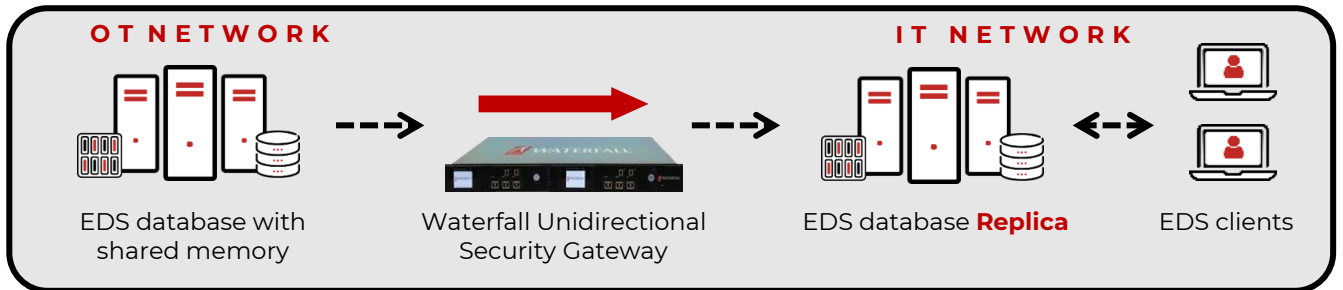Power   Pipelines   Rail   Water   Facilities   Manufacturing

WATERFALL FOR EMERSON EDS

OT NETWORK

EDS database with shared memory

Waterfall Unidirectional Security Gateway

IT NETWORK

EDS database **Replica**

EDS clients

Waterfall for Emerson EDS consists of an EDS Shared Memory connector and an EDS Database connector. The Waterfall Emerson EDS database replication software queries the EDS database and shared memory for data in an industrial EDS installation, sends that data across the Unidirectional Gateway hardware to an enterprise network, optionally compressing it for optimal storage, and uses the data to populate a replica Emerson EDS database on the external enterprise network. The replica is always updated with both real-time and historical data. Business users and applications requiring access to the real-time data access the replica EDS installation exclusively.

The replica Emerson EDS installation is maintained as a faithful, real-time replica of the original system on the industrial network. Users continue to operate as if nothing has changed and are able to issue complex or costly queries against the replica system without fear of slowing down or impairing the operation of critical systems on the industrial control network. Server replication provides enterprise-wide access to industrial data without the need to allow direct access to industrial servers and networks, securing the safety and reliability of the protected network with hardware-enforced measures.

FULLY-FEATURED & ROBUST SUPPORT:

» Complete or selective real-time replication of Emerson EDS

» Full support for all Emerson EDS data types

» Preserves Emerson EDS transactional integrity

» 1-10 Gbps standard throughput, with optional high availability configurations

» Optional aggregation of several industrial Emerson EDS databases into a single enterprise DB

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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.