

WATERFALL FOR POSTGRESQL

SECURE APPLICATION INTEGRATION THROUGH POSTGRESQL REPLICATION

PostgreSQL's database software is used to leverage industrial and automation process data with business networks. Permitting SQL traffic through industrial firewalls introduces significant risks, however, as all connections through firewalls introduce attack opportunities. Waterfall for PostgreSQL enables industrial networks to replicate databases on enterprise networks, without risk to the safe and continuous operation of industrial networks.

The Waterfall for PostgreSQL software securely replicates PostgreSQL servers to enterprise networks. Enterprise users access the replicas normally and bidirectionally without risk to the original industrial network. Waterfall's PostgreSQL connector enables businesses to leverage operations data throughout their enterprises without exposing operations networks to cyber risk.

Waterfall for PostgreSQL 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 POSTGRESQL



Secure, accurate replication of PostgreSQL Databases



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



Eliminates remote-control cyber attacks and online malware propagation



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



Maximum utilization of all PostgreSQL features



Power



Pipelines



Rail



Water



Facilities

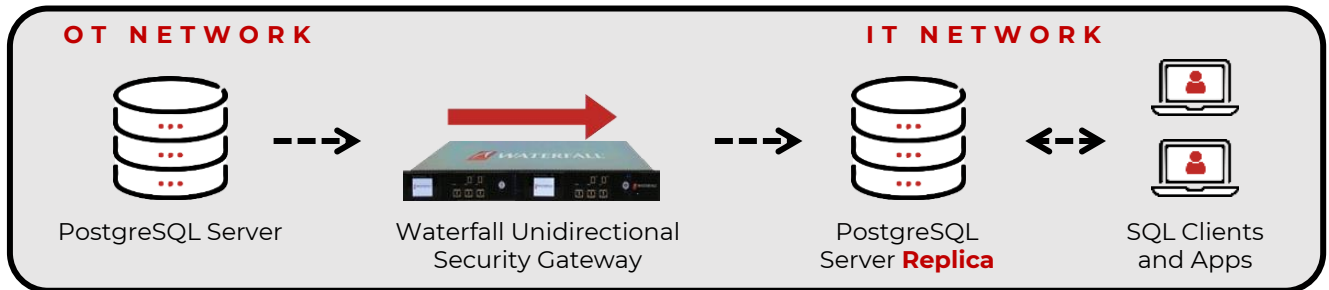


Manufacturing

WATERFALL FOR POSTGRESQL

The Waterfall for PostgreSQL connector queries a PostgreSQL database on an industrial network for real-time data, sends that data across Waterfall Unidirectional Gateway hardware to an enterprise network, and uses the industrial data to populate a replica PostgreSQL database on the external enterprise network. Business users and applications who need access to real-time data use the replica database exclusively.

The enterprise PostgreSQL is maintained as a faithful, real-time replica of the original PostgreSQL database on the industrial network. Users continue to operate as if they were still connected to the industrial server. Users can issue complex or costly queries against the replica database 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:

- » Real-time Complete or selective replication of PostgreSQL databases
- » Full support for all PostgreSQL data types
- » 1-10 Gbps throughput standard & High Availability options
- » Preserves PostgreSQL transactional integrity
- » Optional aggregation of several industrial PostgreSQL databases into a single enterprise database

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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.

Waterfall's products are covered by U.S. Patents 7,649,452, 8,223,205, and by other pending patent applications in the US and other countries. "Waterfall", the Waterfall Logo, "Stronger than Firewalls", "In Logs We Trust", "Unidirectional CloudConnect", and "CloudConnect, and "One Way to Connect" are trademarks of Waterfall Security Solutions Ltd. All other trademarks mentioned above are the property of their respective owners. Waterfall Security reserves the right to change the content at any time without notice. Waterfall Security makes no commitment to update content and assumes no responsibility for any mistakes in this document. Copyright © 2023, Waterfall Security Solutions Ltd. All Rights Reserved. www.waterfall-security.com