

WATERFALL FOR MYSQL DATABASES

SECURE APPLICATION INTEGRATION THROUGH MYSQL DB REPLICATION

MySQL's relational 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 MySQL Databases enables industrial networks to replicate databases on enterprise networks, without risk to the safe and continuous operation of industrial networks.

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

Waterfall for MySQL Databases 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 MYSQL DATABASES



Secure, accurate, and real-time replication of MYSQL 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 MYSQL features



Power



Pipelines



Rail



Water



Facilities

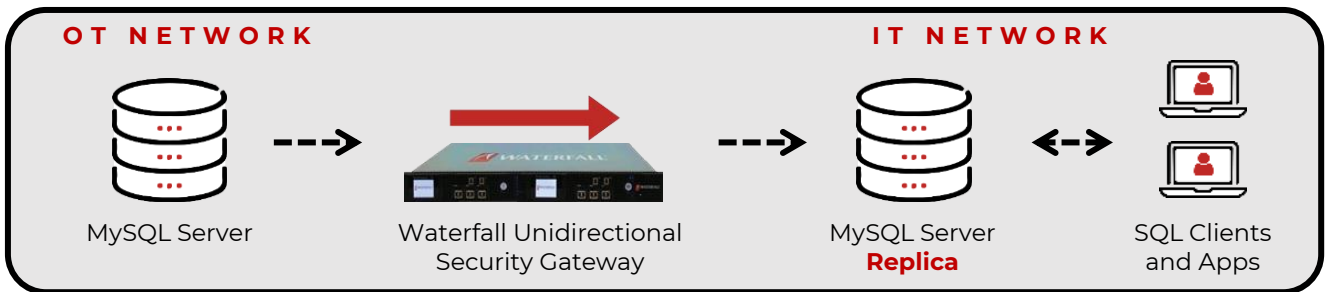


Manufacturing

WATERFALL FOR MYSQL DATABASE

Waterfall for MySQL Databases is part of the Waterfall Unidirectional Security Gateway family of products. The MySQL Database replication software queries a MySQL database on an industrial network for data, sends that data across the Unidirectional Gateway hardware to an enterprise network, and uses the data to populate a replica MySQL database there. Business users and applications requiring access to the real-time data access the replica database exclusively.

The enterprise MySQL database copy is maintained as a faithful, real-time replica of the original MySQL database on the industrial network. Users continue to operate as if they were communicating with the industrial database. 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 replication of MySQL databases
- » Complete or selective DB replication
- » Full support for all MySQL data types
- » 1-10 Gbps throughput standard & High Availability options
- » Preserves MySQL transactional integrity
- » Optional aggregation of several industrial MySQL 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.

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