

# WATERFALL FOR MICROSOFT SQL SERVER

## SECURE APPLICATION INTEGRATION THROUGH SQL SERVER DATABASE REPLICATION

Microsoft SQL Server'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 Microsoft SQL Server enables industrial networks to replicate databases on enterprise networks, without risk to the safe and continuous operation of industrial networks.

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

Waterfall for Microsoft SQL Server 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 WATERFALL FOR MICROSOFT SQL SERVER



Secure, accurate, and real-time replication of Microsoft SQL Server 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 SQL Server features



Power



Oil & Gas



Rail



Facilities



Water



Manufacturing



Government

## WATERFALL FOR MICROSOFT SQL SERVER

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

The replica database is maintained as a faithful, real-time replica of the original SQL Server on the industrial network. Users continue to work with the SQL Server replica as if nothing has changed and 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 provide 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 database replication
- » Support for all SQL Server data types
- » Automatic replication of database tables, supported by record addition, update and delete methods
- » Preserves SQL Server transactional integrity
- » Optional aggregation of multiple industrial SQL Servers into a single enterprise database
- » Built-in backfill capability
- » 1-10 Gbps throughput standard & High Availability options

[INFO@WATERFALL-SECURITY.COM](mailto:INFO@WATERFALL-SECURITY.COM)

[WWW.WATERFALL-SECURITY.COM](http://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.

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](http://www.waterfall-security.com)