WATERFALL FOR ORACLE DATABASE

SECURE APPLICATION INTEGRATION THROUGH ORACLE SERVER REPLICATION

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

The Waterfall for Oracle Database connector is part of the Waterfall Unidirectional Security Gateway family of products. The connector replicates Oracle databases unidirectionally and in real-time, from industrial networks to IT networks, without the risks that always accompany firewalls.

Waterfall for Oracle Database 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 ORACLE DATABASE

Secure, accurate, and real-time replication of Oracle Databases

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

Not physically able to transmit any remote attacks or malware propagation from external networks into protected networks

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

Maximum utilization of all Oracle Database features

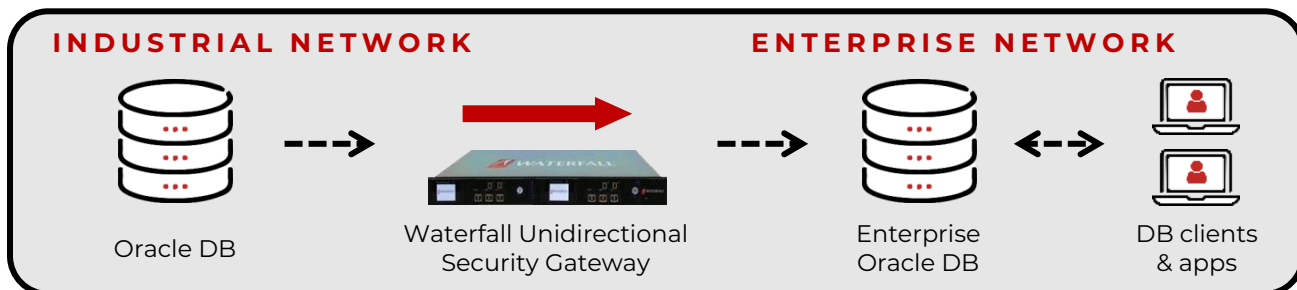Power   Oil & Gas   Rail   Facilities   Water   Manufacturing   Government

WATERFALL FOR ORACLE DATABASE

The Waterfall for Oracle Database connector replicates Oracle databases from industrial / OT networks to IT networks through the Unidirectional Gateway hardware, in real time. On the OT network, the connector is a true Oracle client that queries the source Oracle database for industrial data. On the enterprise network, the connector is also an Oracle client and uses the unidirectionally-transmitted Oracle data to update an enterprise Oracle server. Oracleclients on the enterprise network can query the enterprise server and be confident of receiving the same data from that server as would have been received from the original industrial Oracle server.

It is not physically for attacks to flow from the IT network back into the OT network through the Waterfall Unidirectional Gateway hardware. Oracle 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:

» Support for all Oracle Database data types

» Automatic replication of database tables, supported by record addition, update and delete methods

» Preserves Oracle Database transactional integrity

» Optional aggregation of multiple industrial Oracle Databases into a single enterprise database

» Built-in backfill capability

» 1-10 Gbps throughput standard with optional High Availability

---

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.