

Waterfall for ClearSCADA

Secure Integration with Server Replication



Highlighted Features

- Hardware enforced unidirectional replication of ClearSCADA servers to corporate networks
- Eliminates cyber threats and risks from online attacks and human errors
- Fully transparent to ClearSCADA database users
- Available 1Gbps connectivity and high availability
- Simplifies NERC-CIP, NRC, NIST, CFATS and other regulatory compliance
- Common Criteria EAL4+ certified.
- Assessed for security by Idaho National Labs

Overview

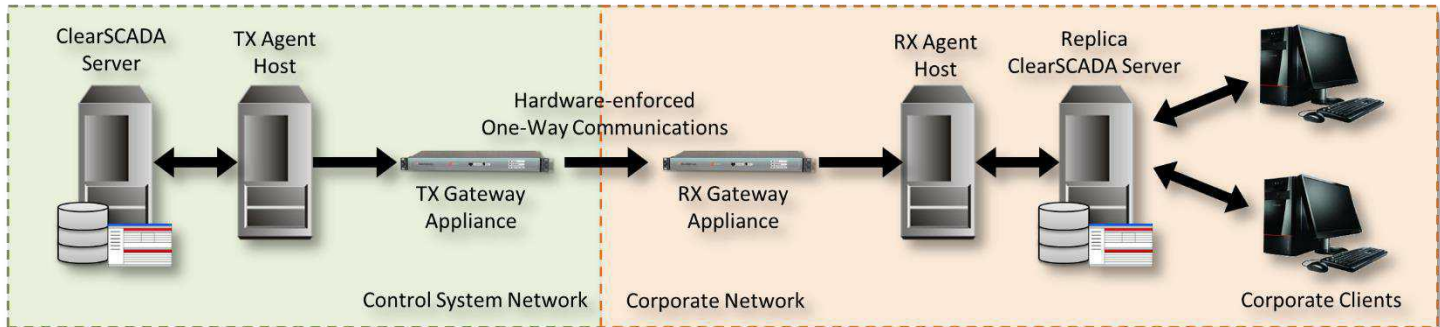
Waterfall for the ClearSCADA Historian securely integrates Schneider Electric ClearSCADA systems on industrial networks with users and applications on corporate networks by unidirectionally replicating ClearSCADA server systems. Modern businesses rely on real-time access to real-time, industrial data for functions ranging from predictive maintenance planning and crew scheduling, to just-in-time inventory management and production visibility for end users. Waterfall for ClearSCADA provides access to real-time data, while eliminating the threats to safe and reliable operations which always accompany firewalls.

Stronger than Firewalls: Secure Historian Replication

The Waterfall for ClearSCADA is part of the Waterfall Unidirectional Gateway family of products. The gateways are a combination of hardware and software. The transmit gateway hardware contains a laser, and the receive gateway hardware contains a photocell. A fiber-optic cable links the two hardware units. As a result, the transmit gateway can send data to the receive gateway, but the receive gateway cannot send anything back. There is no laser in the receive gateway that could send any signal, and there is no optical receiver in the transmit gateway that could receive any signal. No online attack originating on an external network can pass back into a protected network through the gateway hardware.

The Waterfall gateway software subscribes to ClearSCADA database changed events to gather data from servers on an industrial network, sends that data across the Unidirectional Gateway hardware to a business network, and uses the data to populate a replica ClearSCADA server there. Business users and applications use the replica server exclusively.

ClearSCADA replica servers are maintained as faithful, synchronized replicas of the original servers on the industrial network. The replicas are so faithful that corporate network users are often unaware that they are using replica servers. In addition, business users can issue complex, costly queries against the replica database without fear of slowing down critical systems on the industrial control network.



Available Features

- Real-time replication of tags, objects, properties, events, values, and alerts
- Automatic propagation of tag/object structure changes: addition, deletion or property changes
- Complete SCADA database replication
- Single point of database management
- Supports ViewX and WebX ClearSCADA clients
- 1 Gbps throughput
- High-availability options: any or all of:
 - ClearSCADA HA on the industrial network
 - ClearSCADA HA on the corporate network
 - HA unidirectional gateway solution
- Support for all ClearSCADA data types and time stamps

Regulatory Compliance and Certifications

No misconfiguration of Unidirectional Gateway replication software can impair the security provided by the gateway hardware. This results in dramatically reduced perimeter operating costs and costs of compliance with NERC-CIP, NRC, CFATS, NIST, ISA-SP99 and other standards, guidance, and regulations.

The gateway solution is certified Common Criteria EAL4+, resistant to high attack potential. Waterfall's Unidirectional Gateways are only unidirectional solution to pass a cyber-security assessment by Idaho National Labs.

Specifications

Network Interfaces: 10/100 Base-T or 1000BaseT	Dimensions: 19"/ 482 mm (W), 1U/ 43.5mm (H), 10"/ 253 mm (D)	Temperature: Operating: 32°-122° F / 0°-50° C Storage: 14°-158° F / -10°-70° C	Humidity Range: 0-95% at 113° F/ 45° C, non-condensing
Weight: 3.86 lbs./ 1.75 Kg			

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