

Waterfall SCADA PI Monitoring Enabler



Tamper-Proof Protection for your OSIsoft PI System

SCADA systems often control extremely sensitive facilities such as nuclear power plants, power stations, national dams and international gas lines. These facilities are high-profile targets for hostile and terror related activity.

It has been clearly proven that sensitive networks which are connected to less sensitive or public networks can never be completely secure: security breaches due to online attacks remain a major risk.

Despite the use of firewalls and intrusion detection and prevention systems there is never a guarantee of full protection against attacks as all software and logic-based solutions are penetrable and vulnerable.

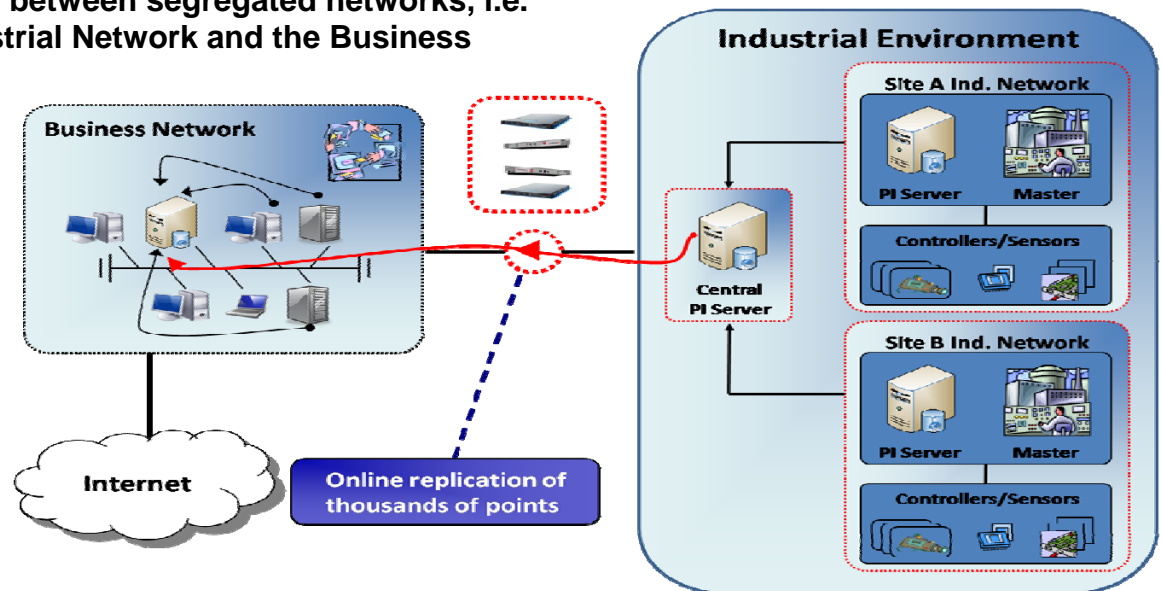


Secure Network

Insecure Network

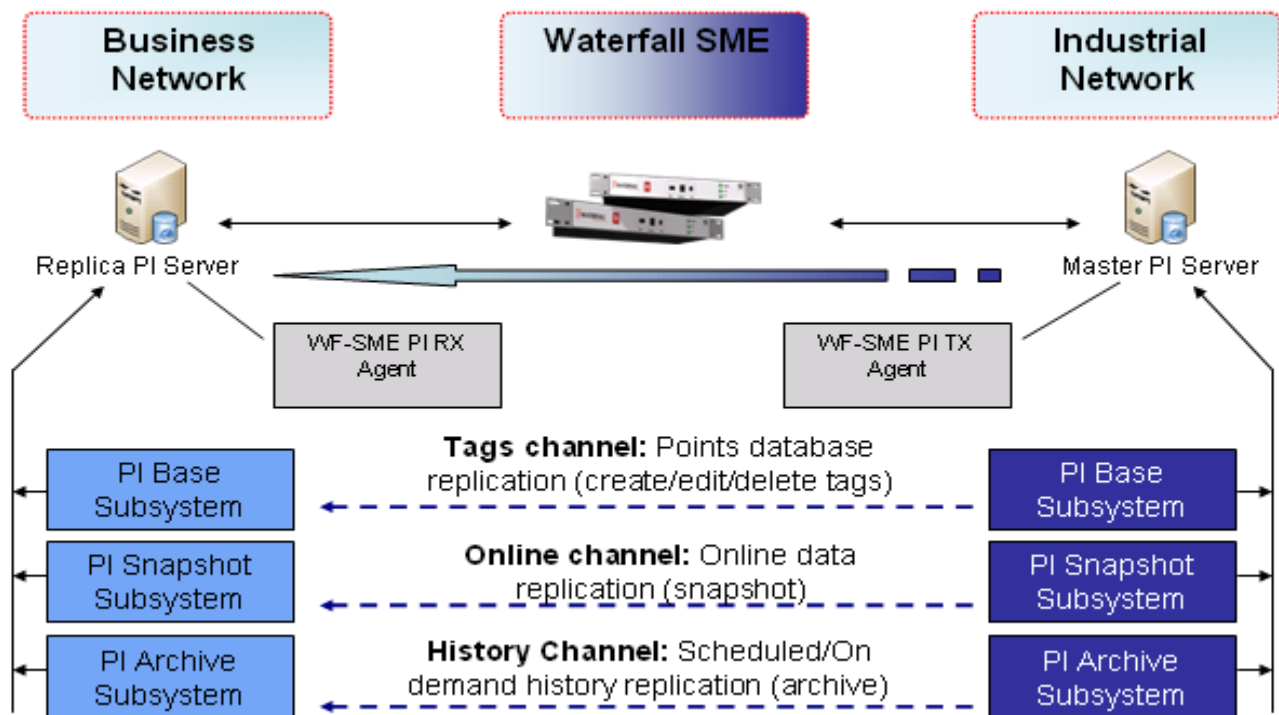
Waterfall SME (SCADA Monitoring Enabler) for OSIsoft PI

Waterfall Solutions, in partnership with Ludan Software & Control Systems, has harnessed its unique, hardware based unidirectional technology to provide a completely secure solution for replicating PI data between segregated networks, i.e. between the Industrial Network and the Business Network.



Waterfall Technology – Unidirectional Connection

Waterfall One-Way™ provides a secure core for unidirectional connectivity, incorporating patent-pending technologies. The system implements a physical one-way connection, based on fiber optic communication, using a proprietary transfer protocol, coupled with a powerful content filtering plug-in. A physical unidirectional connection is indifferent to software definitions and malicious codes. It thus protects the sensitive systems behind it from all types of online attacks. The solution is robust, has various mechanisms for ensuring data transfer, including appropriate notification if not all data has passed.



Waterfall Solutions Ltd.

delivers secure unidirectional connectivity for SCADA Systems, Segregated Networks & IP Surveillance Infrastructures based on patent pending technologies.

Waterfall was initially developed in 2004 to meet the needs of the Israeli MOD (Ministry of Defense) and has been deployed in many critical national infrastructure and homeland security organizations, as well as a large variety of financial & enterprise customers.

Ludan Software and Control Systems Ltd.

is a subsidiary of LUDAN Engineering Co. Ltd., one of the leading multidisciplinary engineering firms in Israel. The Company's activities include design, integration, installation and execution of projects in the field of computers and process control for industrial applications.

Key Benefits

- Secure monitoring of PI data from business networks
- Security implemented in the physical layer
- Performance exceeds PI's nominal rate per interface node of 5000 events per second
- Unidirectional data transfer, no need for additional logical security
- Proprietary transfer protocol – No TCP/IP between the networks
- Flexible and user-friendly control & monitoring capabilities
- Integral data inspection and filtering capability
- Simple installation and implementation

