

Waterfall for OPC-DA

Cyber Security Solution for OPC-DA Replication



- Secure, unidirectional OPC-DA data flow from industrial networks to corporate networks
- Information flow towards the industrial network is physically impossible
- Eliminates cyber threats and risks
- Assists in achieving NERC, NIST, CFATS and other regulatory compliance
- Enhanced configuration of OPC-DA parameters
- Full support of OPC-DA 1.0a, 2.0, 3.0
- Easy and simple to install and maintain.

General

Waterfall for OPC-DA, a unidirectional security gateway, best addresses utilities' needs to remotely access the OPC-DA data. Waterfall for OPC-DA maintains absolute cyber-security of the industrial network and assists to achieve regulatory compliances.

Features and Benefits

The Waterfall for OPC-DA uses an internal, hardware based, unidirectional fiber optic link to transmit OPC-DA data from industrial applications, controllers and other devices which are located in industrial networks to corporate or external networks. Due to the design of the hardware itself, data flow from the corporate network towards the industrial network is physically impossible.

This preserves the industrial network segregation and protects the utilities critical assets as it eliminates any threats of cyber-attack, incoming viruses and malware or human errors. Yet, it allows OPC-DA data originating from the industrial network to be securely transferred outside.

Due to the growing concern of the North-American authorities and regulators regarding the vulnerability of the Critical Infrastructures' Industrial networks, Waterfall for OPC-DA provides a solid foundation for achieving NERC-CIP, NIST, CFATS and other regulations compliance.

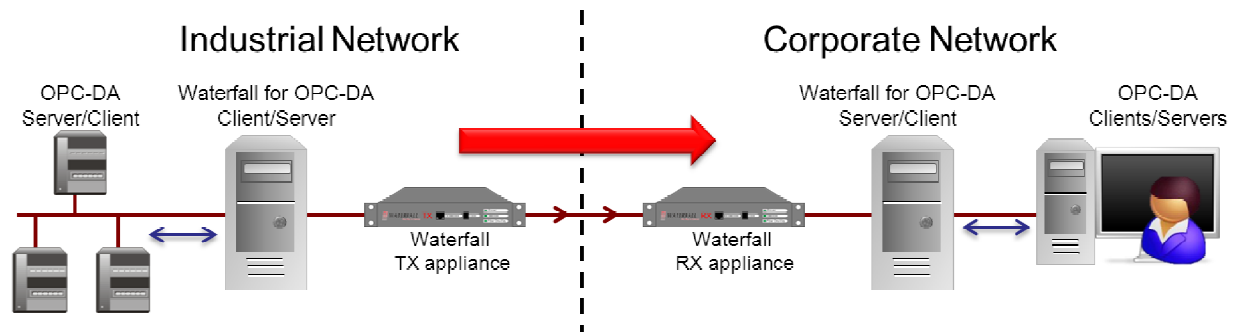
Waterfall for OPC-DA supports real time OPC-DA data flow from the industrial network to the corporate network. The utility's managers can monitor and evaluate operational processes in real time and retain the business and operational needs.

The Waterfall for OPC-DA provides enhanced configuration application that enables to control the following:

- OPC Branches and Tags to be transmitted via the Waterfall Gateway
- Rate of Tag readings from the OPC server
- Tag value change thresholds
- The timeout, after which the Waterfall OPC-DA client actively read the tag's value
- OPC-DA protocol version.

The Waterfall OPC-DA on each network can be configured as an OPC client or OPC server, supporting the variety of different OPC topologies.

Installing and monitoring the Waterfall for OPC-DA is done using configuration and monitoring applications. These applications enable fast and easy installation, as well as monitoring of system health, status and performance. Comprehensive diagnostics includes real time alarms that alert the user of fault conditions via email, SNMP, log file and the Waterfall's monitoring console.



Specifications

Network Interfaces:	10/100 Base-T or 1000BaseT	Power	Single or Dual PS , 100-240V AC, 50-60Hz,
Network Connector:	Ethernet: RJ45 (CAT5)	Power consumption:	7W
Management:	Configuration and monitoring applications	Dimensions:	482 mm [19"] (W), 43.5mm [1U] (H), 253 mm (D) Rack-mount unit
Alarms:	User defined	Weight:	1.75 Kg
Status Indication LEDs:	Power (Orange) – Power operating correctly Network (Green) – Ethernet port is connected Fiber One-Way (Green) – Optical link data is active	Temperature:	Operating: 0° C to 50° C Storage: -10° C to 70° C
		Humidity Range:	0 to 95% at 45° C, non-condensing