WATERFALL
FOR OSISOFT PI

SECURE MONITORING OF PI SERVERS FOR ENTERPRISE USE

Since 2009, Waterfall Security has been a trusted partner of OSIsoft, securing the IT/OT connection in PI deployments for many mutual customers worldwide. OSIsoft, a world leader in operational intelligence with its flagship PI System, enables businesses to capture and leverage sensor-based data across enterprises for improved efficiency.

Waterfall's solution suite for the PI System comprehensively addresses the needs of industrial systems to achieve safe integration of operational technology (OT) and information technology (IT) networks, while maximizing access to OSIsoft PI data sets and analytics capabilities. By deploying Waterfall for PI System®, businesses eliminate the risk of remote cyberattacks entering their industrial control systems while enabling seamless access to critical operational data for improved efficiencies.

BENEFITS OF USING WATERFALL FOR OSISOFT PI SYSTEM

Secure replication of PI Servers, Collectives and Asset Framework systems

Elimination of remote control cyberattacks and online malware propagation

Facilitating compliance with NERC CIP, NIST, CFATS, ANSSI, UK DfT and more
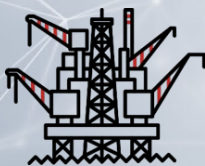
Maximum utilization of all PI features

Simple deployment, off-the-shelf solution

Rails   Oil & Gas   Manufacturing   Water   Power   Pharma

FULLY-FEATURED & ROBUST SUPPORT:

» Asset Framework replication of names, contexts; accessible via AF interfaces

» Real-time replication of tags, attributes, events, frames, values and notifications

» Optional propagation of tag structure and attribute changes

» Support for all PI data types: numeric, digital, string and timestamp tags

» Complete or selective database replication

» High-availability options: PI High Availability Collectives and redundant Waterfall gateways

» PI Backfill capabilities for data retransmission

» Optional aggregation of several industrial PI Servers into a single enterprise server

Waterfall's simple installation, configuration and monitoring tools make it easy for PI System users. Comprehensive diagnostics include real-time alarms that alert the user of fault conditions via Syslog, Windows logs, email, SNMP traps, log files, PI system tags and Waterfall's monitoring console. .

WATERFALL'S SOLUTION SUITE FOR THE PI SYSTEM

OSISOFT PI SYSTEM

Replicates operational PI Systems in industrial networks to enterprise networks, optionally aggregating multiple plants into a single enterprise historian.

Users interact normally and bi-directionally with replica servers, keeping industrial networks safe from remote cyber attacks.

PI ASSET FRAMEWORK (PI AF)

Replicates Asset Framework servers, repositories for asset-centric models, hierarchies, objects, and equipment by using the supported, PI AF API.

The AF replicas are automatically synchronized to changes in the original ICS Asset Framework servers and provide access to all PI AF data sources.

PI BACKFILL

Retransmits OSIsoft PI System data to replica servers on the IT network to address data gaps.

The Backfill function identifies existing data so that duplicate data does not appear in replica servers.

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ABOUT WATERFALL SECURITY SOLUTIONS

Waterfall Security Solutions is the global leader in industrial cybersecurity technology. The company's expanding portfolio of customers includes national infrastructures, power plants, nuclear plants, offshore oil and gas facilities, rail transport, refineries, manufacturing plants, utility companies, and many more. Deployed throughout North America, Europe, the Middle East and Asia, Waterfall products support the widest range of leading industrial remote monitoring platforms, applications, databases and protocols in the market. Please contact: info@waterfall-security.com