waterfall

WATERFALL FOR WSUS

SECURE TRANSFER OF WINDOWS SECURITY UPDATES

Waterfall for WSUS enables safe Windows security and software updates of critical systems in operations technology (OT) networks. Opening paths through IT/OT firewalls to allow the deployment of software updates through Windows Server Update Services (WSUS), is high risk, because all connections through firewalls introduce potential attack opportunities.

Waterfall for WSUS is based on Waterfall's Unidirectional Gateway technology. The WSUS connector enables safe and seamless IT/OT integration with WSUS servers. By deploying the Waterfall for WSUS connector, businesses dramatically reduce the risk of remote cyber attacks entering operations control systems and networks.

Waterfall for WSUS is simple to install, with user-friendly, web-based configuration and monitoring tools. Comprehensive diagnostics include real-time alarms that alert users and network operations of fault conditions via Syslog, Windows logs, email, SNMP traps, log files, and Waterfall's monitoring console.

BENEFITS OF USING WATERFALL FOR WSUS

Hardware-enforced unidirectional transfer of security updates into operations networks

Simple deployment – 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

Seamless integration with WSUS servers

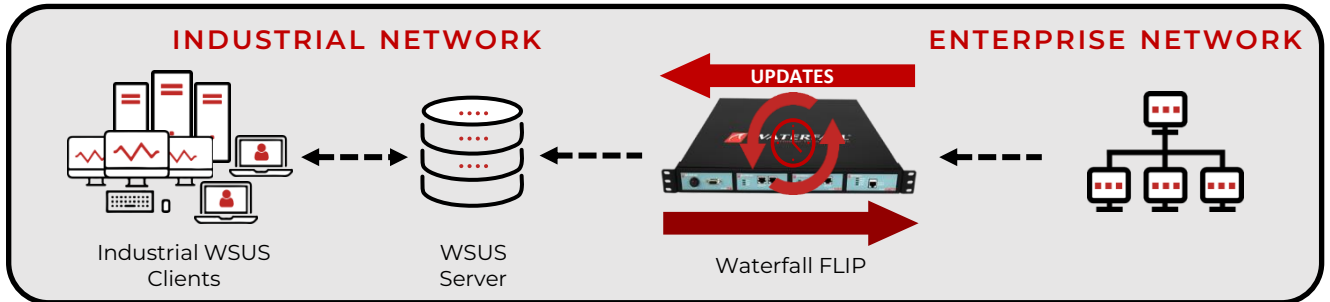Power   Oil & Gas   Rail   Facilities   Water   Manufacturing   Government

WATERFALL FOR WSUS

INDUSTRIAL NETWORK

ENTERPRISE NETWORK

UPDATES

Industrial WSUS
Clients

WSUS
Server

Waterfall FLIP

The Waterfall for Windows Server Update Services (WSUS) connector enables seamless synchronization of operating system and application updates into operations networks without the risk of remote command and control, malware and other attacks on those networks that always accompany firewalled installations

On the enterprise network, the Waterfall connector software is a client of a WSUS server and receives software and security update from that server. On the industrial network, the Waterfall software pushes security updates into an industrial WSUS server, synchronizing that servers with enterprise WSUS server through the secure unidirectional hardware. The connector software uses sophisticated filters to validate software updates against vendors' cryptographic signatures, blocking unauthorized updates and malware.

A Waterfall FLIP is deployed most commonly between enterprise and OT networks for this connector. The FLIP hardware blocks even sophisticated command-and-control connections and remote-control attacks. Waterfall addresses the need to remotely automate the management of WSUS updates, while providing strong protection to OT networks.

FULLY-FEATURED & ROBUST SUPPORT:

» Real-time replication of operating system and applications software and security updates

» Supports Waterfall's Unidirectional Security Gateway and FLIP hardware

» Validates updates prior to entering operations networks

» Minimal changes required to existing infrastructure

» 1-10 Gbps throughput standard & High Availability options

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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.