

WATERFALL FOR IP VIDEO & AUDIO

SECURE IP VIDEO SURVEILLANCE CAMERA STREAMING

A wide range of industries, from energy companies to transport authorities, use video surveillance to safeguard critical assets, monitor the condition of remote equipment, and ensure human safety. Video cameras are, however, notoriously vulnerable to attacks that can endanger important facilities, with attacks compromising both the cameras themselves and the networks to which the cameras are connected. Connecting to cameras directly through firewalls is a problem, since all connections through firewalls introduce attack opportunities.

The Waterfall for IP Video & Audio connector is part of the Waterfall Unidirectional Security Gateway family of products. The connector replicates video cameras unidirectionally and in real-time, from industrial networks to IT networks, without the risks that always accompany firewalls, while leveraging high quality video streams to ensure the physical safety of people, sites and assets.

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

BENEFITS OF USING WATERFALL FOR IP VIDEO & AUDIO



Secure streaming of IP Video and Audio



Simple deployment – the 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 surveillance systems



Power



Oil & Gas



Rail



Facilities



Water

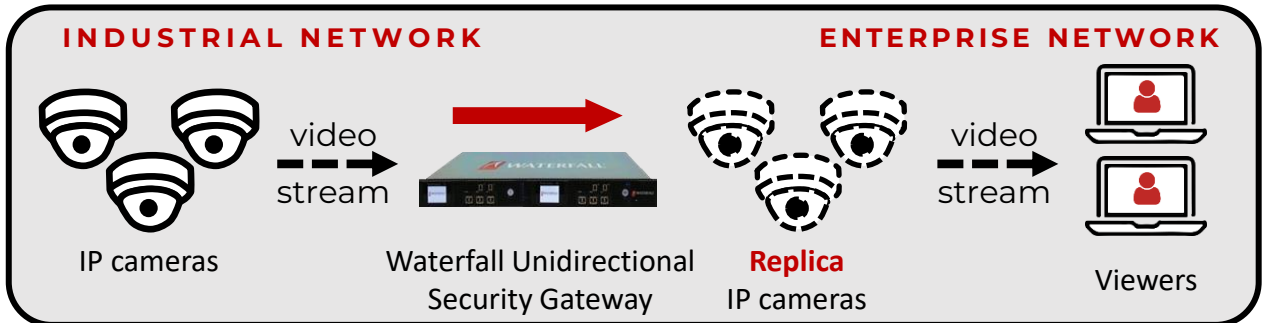


Manufacturing



Government

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The Waterfall for IP Video and Audio connector emulates video cameras located on the industrial or operations network, to an enterprise or IT networks in real time. On the OT side, Waterfall for IP Audio and Video is a true video/audio client that pulls video and audio from IP cameras on that network. On the enterprise network, the connector emulates the original cameras, providing audio and video feeds to enterprise clients. Enterprise clients connect to and interact normally with the enterprise replica cameras, receiving the same video feeds from the emulated replicas as would have been received from the original cameras.

It is not physically for attacks to flow from the IT network back into the OT network through the Waterfall Unidirectional Gateway hardware. Waterfall Unidirectional Gateways with Waterfall for OPC DA enable safe IT/OT integration. The Waterfall for IP Video & Audio Connector provides seamless transfer of video data across a surveillance system spread across remote locations and into the organizational network, while ensuring the network security on all these levels.

FULLY- FEATURED & ROBUST SUPPORT:

- » Secure monitoring and operating video surveillance systems from administrative networks
- » Supports a wide range of cameras from any surveillance system vendor
- » 1-10 Gbps throughput standard
- » Built-in data inspection capability
- » Supports RTP, RTSP, and UDP protocols streams

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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.

Waterfall's products are covered by U.S. Patents 7,649,452, 8,223,205, and by other pending patent applications in the US and other countries. "Waterfall", the Waterfall Logo, "Stronger than Firewalls", "In Logs We Trust", "Unidirectional CloudConnect", and "CloudConnect, and "One Way to Connect" are trademarks of Waterfall Security Solutions Ltd. All other trademarks mentioned above are the property of their respective owners. Waterfall Security reserves the right to change the content at any time without notice. Waterfall Security makes no commitment to update content and assumes no responsibility for any mistakes in this document. Copyright © 2023, Waterfall Security Solutions Ltd. All Rights Reserved. www.waterfall-security.com