WATERFALL
REMOTE SCREEN VIEW

SAFE REMOTE SUPPORT

Remote access to industrial control networks is both essential and dangerous. Most industrial sites need to call on external experts from time to time for business necessity and convenience. Conventional remote access technology, however, is high risk, even if secured with multi-factor authentication, VPNs, and strong encryption. That's because conventional solutions route all traffic through firewalls. All connections through firewalls that permit data to leave an industrial system also permit attacks to enter that system.

Waterfall Remote Screen View (RSV) provides safe remote access for vendors of all levels of clearance for a site. RSV enables remote experts to see the screens of computers on industrial networks while the industrial site retains full control over any expert-recommended manipulations or changes to systems at the site. Physical protections built into the underlying Unidirectional Gateway hardware mean that no software compromise can impair the protection provided to the industrial networks.

The Waterfall RSV provides maximum viewing versatility needed for effective monitoring and operational processes evaluation. It enables multiple users to remotely view, in real time, multiple screens located inside the industrial network. Different users located in distant locations, can view multiple screens simultaneously. Users can access the screen feeds in standard web browsers.

BENEFITS OF WATERFALL REMOTE SCREEN VIEW

Safe remote support for unidirectionally-protected networks

Screen sharing is activated and controlled by site personnel

Elimination of remote control cyberattacks and online malware propagation

Facilitating compliance with NERC CIP, NIST 800-82, ANSSI, IEC 62443 and more

Enables "escorted remote access" for vendor support

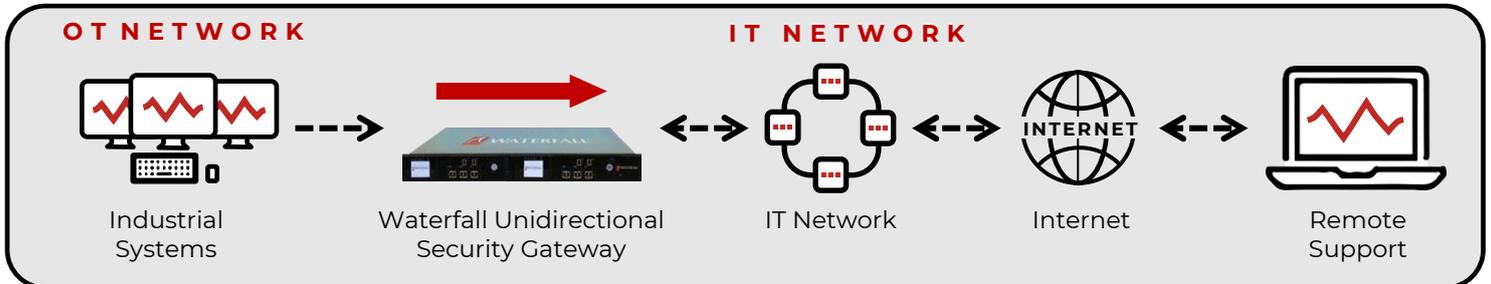Power   Pipelines   Rail   Water   Facilities   Manufacturing

THEORY OF OPERATION

OT NETWORK

IT NETWORK

Industrial Systems

Waterfall Unidirectional Security Gateway

IT Network

Internet

Remote Support

The Waterfall RSV uses an internal, hardware based, unidirectional fiber optic link to replicate the contents of server and workstation screens from industrial networks to enterprise networks and the Internet, in real time. The Unidirectional hardware makes it physically impossible for data to flow from the corporate network towards the industrial network, eliminating any threats of cyber-attacks, incoming malware or human errors.

Remote experts access the screen images and video feeds with a normal web browser, providing advice to engineers at site, usually over the phone. The site engineers receive this advice and decide whether and when to apply it to the industrial systems. Remote users and experts have no way to affect the industrial network themselves. Standards and best-practice guidance refer to this strict separation of roles as "supervised remote access" to industrial systems.

FULLY-FEATURED & ROBUST SUPPORT:

» SCADA managers can configure the Waterfall RSV to stream screens on demand

» Supports Windows OS

» Screens from industrial computers are accessed by conventional browsers and video streaming on external networks

» Broad manageability & control of replicated screens including refresh rate, video quality and activation mode

» Comprehensive diagnostics including real-time alerts to fault conditions via email, SNMP, log files and PI tags

» 1-10 Gbps throughput standard

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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.