

ROBUST OT SECURITY:

ENTERPRISE VISIBILITY WITH DISCIPLINED CONTROL

Waterfall Security Solutions is the OT security company. Waterfall's products are standard in the world's leading industrial enterprises, enabling safe enterprise visibility into operational technology (OT) networks with disciplined control.

Some examples:

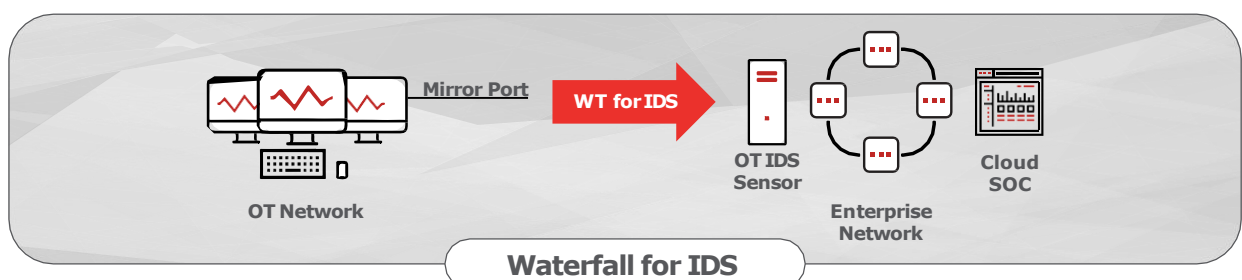
SECURITY FUNCTION		WATERFALL PRODUCT
OT Network Monitoring	=	Waterfall for IDS
OT Systems Visibility	=	Unidirectional Gateways
Vendor Remote Access	=	Remote ScreenView
Trusted Remote Access	=	Secure Bypass
Scheduled Updates	=	Waterfall FLIP

This family of products prevents production losses, reputational damage and physical damage due to ransomware and other cyber attacks on OT networks. Waterfall's products provide the strongest practical protection from remote cyber attacks.

Unlike a firewall, where every question is answered by opening another TCP port transmitting both data and attacks, Waterfall's family of solutions provides the most specific, most secure solution for every connectivity need.

OT NETWORK MONITORING

Waterfall for IDS enables the deployment of new-generation OT IDS (Intrusion Detection System) sensors, such as those from FireEye, Indegy, Dragos, CyberX and others. Waterfall for IDS unidirectionally emulates OT network mirror ports to IDS sensors. This unidirectional emulation allows OT IDS sensors to be managed and updated directly from enterprise networks, by enterprise SOC analysts, without risk to operations.



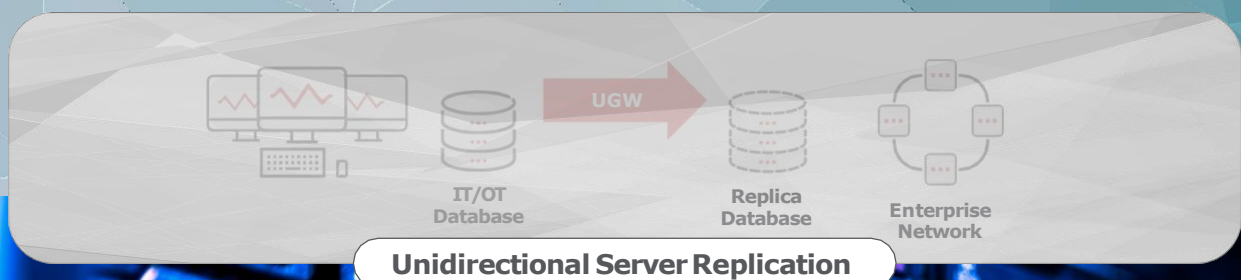
Waterfall for IDS enables safe and efficient monitoring of OT networks

OT SYSTEMS VISIBILITY

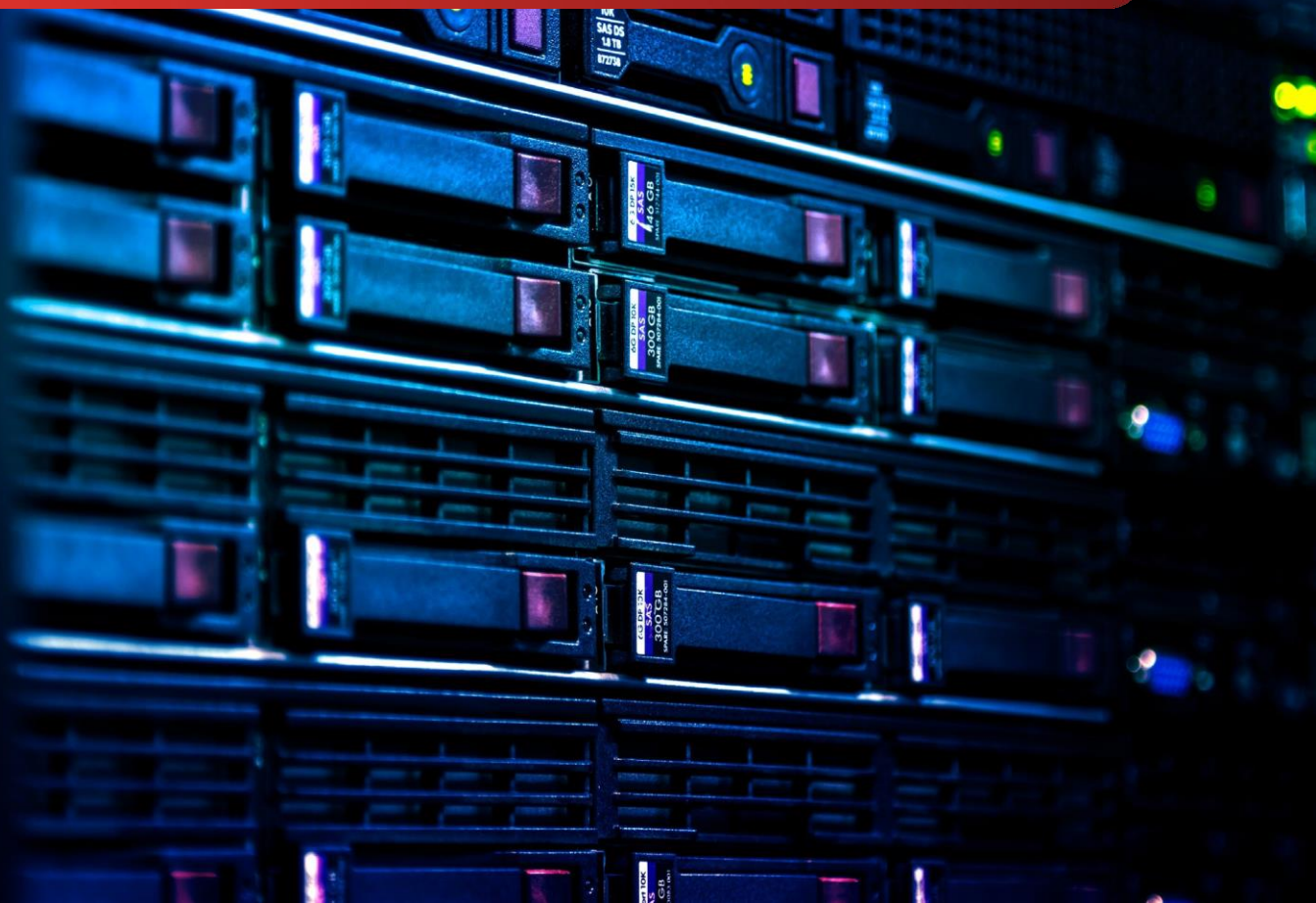
Waterfall Unidirectional Security Gateways are a combination of hardware and software that provide safe access to OT systems for enterprise network users and applications.

One focus of IT/OT integration is providing enterprise access to data that is stored in OT databases, historians, OPC servers, and other devices and controllers. Exposing these OT servers to enterprise networks though, is an unacceptable risk to continuous operations.

Instead, Waterfall's Unidirectional Gateways unidirectionally replicate OT servers and databases to enterprise networks. Enterprise users and systems access the IT replicas normally and bi-directionally. Enterprise users query the replicas for the latest OT information and receive the same answers to their queries as the live OT servers would have provided. Unidirectional Gateways enable all of this without ever transmitting a single message or query back into OT servers from the enterprise network.

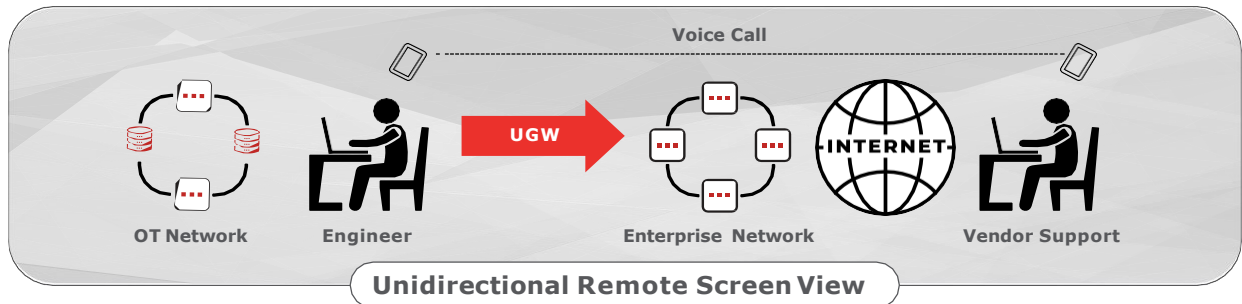


Unidirectional Security Gateways enable safe and efficient visibility into physical operations.



VENDOR REMOTE ACCESS

Remote Screen View (RSV) allows an engineer to enable a remote support provider to see a real-time copy of an OT workstation's screen. The support provider delivers real-time advice to the OT engineer over a phone. Unidirectional RSV physically prevents any mouse movement, keystroke or other signal or attack from reaching the protected OT system.



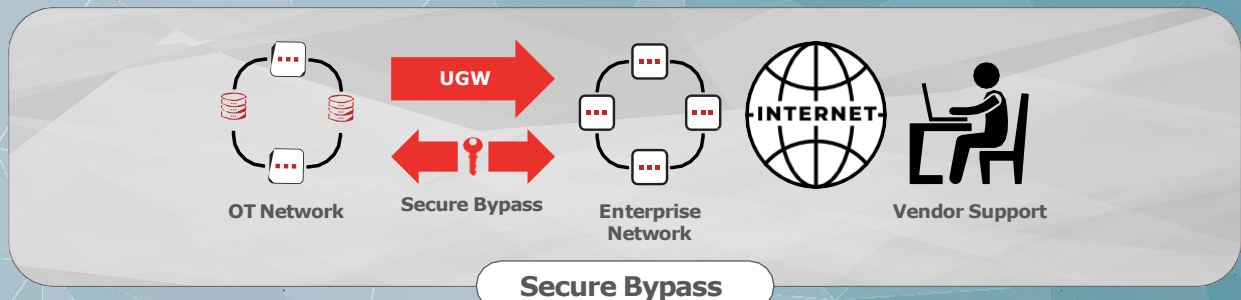
Remote Screen View enables safe remote support for vendors and other third parties.



TRUSTED REMOTE ACCESS

To enable access to OT networks for IT support personnel and other trusted insiders, secure sites deploy Waterfall Secure Bypass (SBP). SBP enables temporary, bi-directional access to OT networks.

SBP hardware is commonly deployed in parallel with a unidirectional gateway. In normal operation, SBP is “locked”, there is physically no way to send any information through the bypass device.



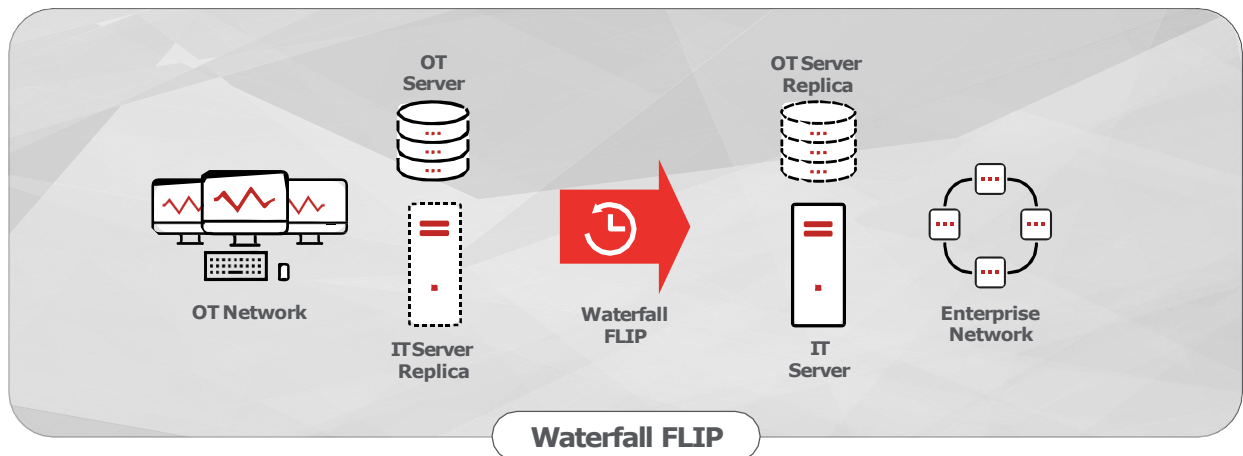
To enable remote access, an authorized individual at the protected site activates the SBP with a physical key. This enables temporary, bi-directional, VPN-based and other communications to the OT network. After a preprogrammed timeout or a second manual keying, the SBP again physically disconnects the bi-directional stream.

Waterfall's Secure Bypass product gives OT sites the



SAFE SCHEDULED UPDATES

The Waterfall FLIP is a special kind of Unidirectional Gateway whose orientation can reverse on a schedule. Whether oriented from IT to OT or vice-versa, the FLIP unidirectionally replicates servers and files from one network to another. Such replications routinely include anti-virus updates, security updates, production orders and quality sampling instructions.



As with all Unidirectional Gateway solutions, enterprise and operations users each access their replicas normally, as if they were connected directly to the original sources. The FLIP provides enterprise users with efficient, convenient access to the very latest operations data, and provides operations users and systems with efficient, convenient access to enterprise data.

The Waterfall FLIP enables safe and efficient disciplined scheduled updates of OT networks and systems

DISCIPLINED CONTROL

Waterfall provides these solutions and many more for a wide variety of specific OT networks and communications needs. The Waterfall approach to safe OT connectivity seeks first to understand and inventory essential business communications. Waterfall's solution architects then propose network designs to enable only the most specific, most secure, most disciplined and most efficient kinds of communication for each business need.

Waterfall is the OT security company for a reason: our hardware-enforced security is trusted by the world's most secure and most efficient industrial enterprises. For a free evaluation of your communications needs and our recommendation for the most secure, disciplined and efficient design to meet those needs, contact Waterfall today.

Waterfall offers
free consultations
with solution architects experienced in secure,
efficient and disciplined IT/OT integration.
To request your free consultation, please visit:
<https://waterfall-security.com/contact>

