

WF-Flip

The Waterfall FLIP is a type of Unidirectional Gateway whose orientation can be physically reversed, enabling safe scheduled updates to OT networks without the vulnerabilities firewalls always introduce. The FLIP is deployed to routinely provide safe automatic updates such as antivirus signatures, batch production orders, and security updates.



» How it works:

1 Connect

To a wide variety of industrial data sources

2 Protect

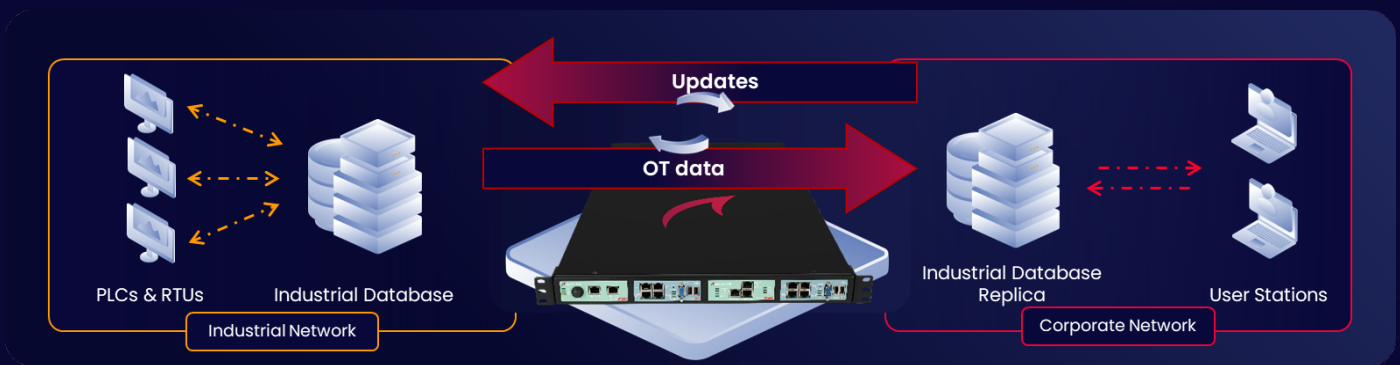
The OT network with hardware-enforced technology

3 Replicate

OT data, servers and devices to the IT network in real time

4 Reverse

Orientation periodically for safe updates of OT systems



» Benefits

Real-time monitoring with safe updates

Disciplined, scheduled, secure updates to unidirectionally-protected networks

Self contained

Network appliance with a simple web-based user interface, without the need to install hosts or software on industrial or IT networks

Defeats online cyber attacks

Reducing down-time, equipment damage, environmental & public safety incidents and ensuring operational continuity by preventing cyber attacks

Unlimited connectivity

Enables safe vendor monitoring, secure remote access and real-time enterprise-wide visibility into operations

Extensive connector library

Assures compatibility with industrial data sources, even in complex fleet-wide deployments

Safe IT/OT integration

Provides the benefits of IT/OT integration, without the risks of firewalled IT/OT connectivity

»» Features

Hardware is modular, flexible, and user-serviceable



1Gbps standard throughput



Guaranteed unidirectional – can never send both ways at once



Front panel cabinet connections for clear system visibility



Compatible with Waterfall's large library of off-the-shelf connectors



Flexible connector hosting supporting all major operating systems



»» Technical Specifications

Dimensions:	43.5(W), 52(D), 4.4(H) cm 1U standard rackmount
Power	110-240vac, 50-60 Hz
Weight	9 kg
Network Interfaces	5 x 1Gbps

»» Certification & Compliance

Certification

Common Criteria EAL4+, Singapore NITES, Korean KC, Israel NIS

Assessments

Idaho National Labs, Digital Bond Labs

Enables compliance with

Global ICS Standards & Regulations, NERC CIP, IEC 62443, NRC 5.71, NIST 800-82R2, CFATS, ISO, Industrial Internet Consortium SF, ANSSI ICS Standards, and many more

**One-way for data.
Zero-entry for attackers.**

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