

BlastWave Phosphorus

Secure OT Asset Discovery and Protection

BlastWave and Phosphorus: Protecting Upstream and Midstream Oil and Gas OT Networks

Oil and Gas Challenges

Oil and Gas OT networks are unlike other OT networks, and they present a difficult challenge for traditional IT security solutions. The unique challenges introduced by remote geographies, extremely small sites with few devices, large aggregation sites with thousands of devices, and uncertain and insecure WAN/Teleco connections make IT or proxy-based cybersecurity solutions a poor fit.

When a new site is deployed, the first task is to discover all the assets connected to the network to ensure that only authorized systems are connected to the network. After the assets are discovered, they need to be securely connected and protected from external attack and even malicious insiders with zero trust technology. And all this needs to happen with no downtime and the network must stay operational at all costs.

Upstream/Midstream Challenges:

Minimal OT Asset Visibility

- TSA Regulations
- Too many sites (small device count)
- Overlapping IPs
- No East/West Visibility

Insecure Connectivity

- Unpredictable WAN availability
- Multi-WAN Link Redundancy
- Public/Unencrypted connections

Network Access

- Traditional VPN is insecure
- High Latency Sites
- Default PLC Credentials

Hardware

- Cost Sensitive
- Low Power Requirements

Costs

- Thousands of Remote Sites

Upstream/Midstream Solutions:

Active OT Asset Discovery

- 100% Asset Capture
- Lightweight deployment per site
- Captures device Firmware Version
- Mapping down to serial numbers
- North/South & East/West Visibility

Secure Connectivity

- Multi-WAN capability
- SAT to Cell Failover (Redundancy)
- Site to Site Encryption

Zero Trust Network Access

- Phishing Resistant Remote Access
- High Performance with Low Latency
- Default password detection and management

Hardware

- Inexpensive
- Low Power appliances

Cost Efficient

- Under \$1k/site

Bringing Phosphorus and BlastWave together to solve O&G's biggest challenges.

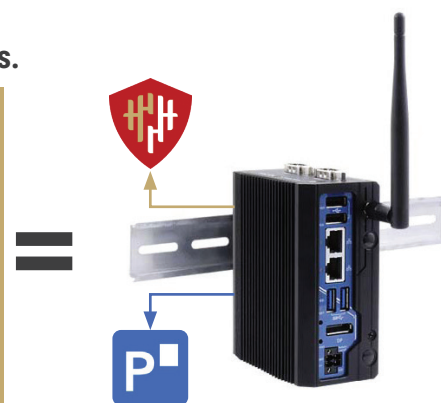
Phosphorus

Designed to find and secure the world of devices, the Phosphorus platform provides delivering high-fidelity discovery and risk assessment, proactive hardening and remediation, and continuous monitoring and management.

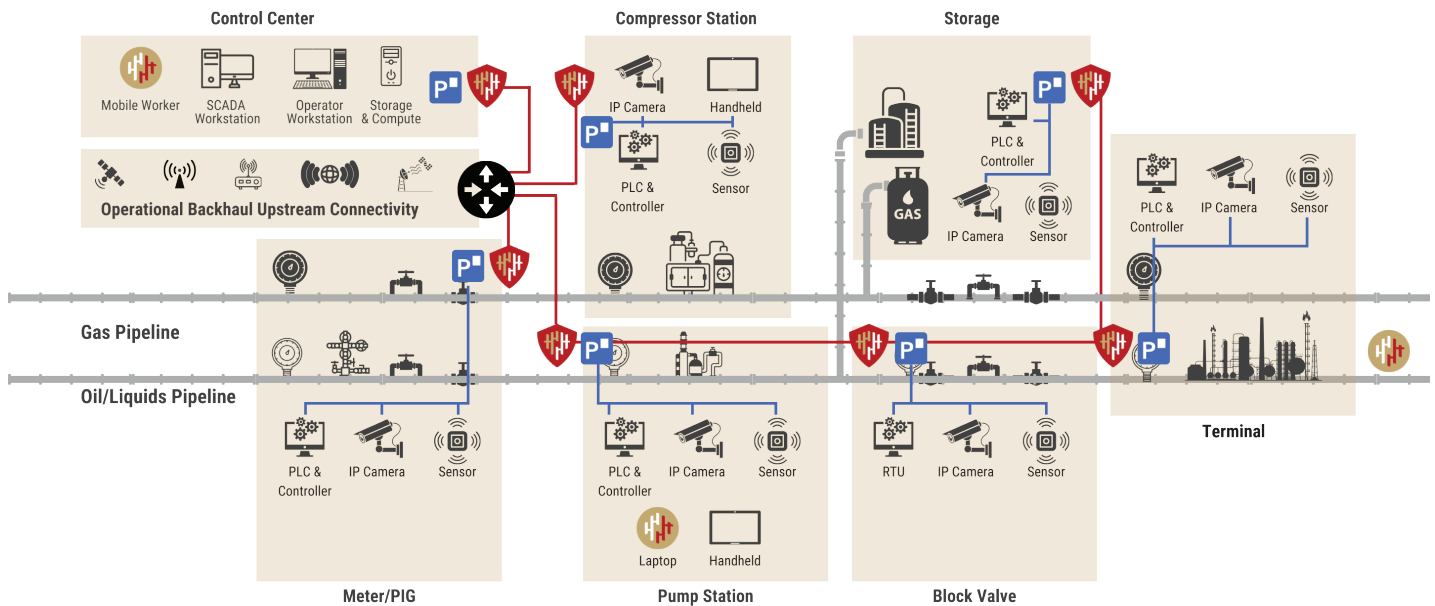


BlastWave

BlastShield keeps OT networks with a unique combination of zero trust technologies: Network Cloaking, Secure Remote Access, and Network Segmentation.



Secure OT Asset Discovery and Protection for Midstream Oil and Gas



Solving O&G Challenges Together

Many of the challenges faced by various upstream and midstream asset owners are due, in part, to owning thousands of remote sites. Service availability issues, network access challenges, and limited visibility per site make it difficult for asset owners to comply with TSA Pipeline Regulations.

Phosphorus delivers accurate discovery of existing OT, ICS, and IIoT assets that is an essential first step in securing any oil & gas organization. The discovery process needs to be custom designed for an xIoT environment. Phosphorus's Intelligent Active Discovery delivers the industry's most accurate, fast, and easy-to-deploy discovery and assessment solution.

BlastWave ingests the assets discovered by the Phosphorus solution and builds a secure overlay on the O&G network that cloaks it from discovery by external threats. It also enables employees, administrators, and contractors phishing-resistant, passwordless least privilege access to a segmented network.

By combining the two solutions, O&G companies can quickly build, expand, and operate fields and pipelines with secure networks that are highly resistant to cyberthreats. These networks can easily comply with the TSA Pipeline Regulations, with Phosphorus a key component of the Continuous Monitoring and Threat detection, and BlastWave mitigating risk and protecting the network.

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About Phosphorus

Phosphorus is here to eliminate the xIoT security gap with the only remediation platform that finds every Thing, fixes every Thing and brings every Thing into compliance. Integrated into your existing security orchestration, Phosphorus means you can bring the same level of security and convenience to the xIoT half of your enterprise without adding manpower. Visit www.phosphorus.io to learn more.

Phosphorus[®]

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About BlastWave

BlastWave securely connects Industrial Control Systems, Operational Technology, and Critical Infrastructure networks with Zero Trust Protection and delivers industrial-grade cybersecurity with consumer-grade ease-of-use. Visit www.blastwave.com to learn more.

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