

How Osnet Wireless Scaled Securely with Corero Network Security

2025



Customer Snapshot

Osnet Wireless, a leading Internet Service Provider (ISP) in Puerto Rico, delivers high-performance connectivity to both residential and business customers. With more than 13 years of experience, Osnet is known for its commitment to service availability, innovation, and technical excellence.

The Challenge

As demand for bandwidth-intensive applications and always-on connectivity increased, Osnet recognized it needed to scale its network and harden its defenses. Three challenges stood out:

- Their existing infrastructure was reaching its limits in terms of capacity and efficiency.
- Sophisticated distributed denial-of-service (DDoS) attacks were becoming more frequent and unpredictable.
- The team needed a way to improve protection without sacrificing network performance, availability, or stretching operational resources.

Osnet's leadership understood that staying ahead of DDoS threats required more than reactive tools. They needed real-time mitigation built into the network core—without adding complexity or cost.

4 Key Reasons Osnet Chose Corero

- Real-time mitigation built into existing Juniper MX infrastructure
- Seamless integration without additional appliances or operational overhead
- Immediate detection, automated DDoS protection that prevents downtime without impacting performance
- Cost-effective, scalable deployment that supports long-term growth

The Solution

The Osnet solution uses existing Juniper MX routers as the enforcement layer with Juniper Threat Defense Director powered by Corero: lightweight GRE packet mirroring from the MX feeds SmartWall ONE™ detectors with continuous samples, enabling signature detection without redirecting production traffic. When an event is confirmed, the system automatically programs precise Junos firewall filters on the MX over NETCONF so only malicious traffic is dropped at the edge while legitimate traffic remains unaffected. Because mitigation runs on the existing routers, latency stays consistent, and the footprint is minimal, enabling protection with high scaling potential. Integrated router telemetry and SmartWall ONE analytics complete the loop for operations, providing real-time evidence of protection.

Why Corero Was the Right Fit



Ledefyl, Osnet's strategic technology partner, recommended a joint Juniper–Corero solution. With Corero's SmartWall ONE Immediate detection DDoS protection deployed directly in the MX router environment, Osnet gained instant visibility and mitigation without traffic redirection or reliance on scrubbing services. The platform's automated defenses and low false positive rate gave the Osnet team confidence they could stop attacks without constant tuning or manual triage. That was critical for a lean operations team focused on delivering service to thousands of customers every day.

Corero's adaptive model meant Osnet didn't need to rip and replace its infrastructure. Instead, it enhanced it. The solution preserved performance, enabled scale, and eliminated the risk of downtime due to volumetric or low-and-slow attacks.

The Value of the Partnership

Osnet and Ledefyl worked side by side throughout the deployment. From design to rollout, they followed best practices for network architecture, automation, and cyber resiliency. The result was a scalable, future-ready solution that:

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- Strengthened core and edge routing
- Delivered real time mitigation at fast speeds
- Reduced operational strain with automation and simplicity

The DDoS defense layer now works silently in the background, allowing OSNET to maintain uptime, protect customer experience, and scale its service offerings.



“The partnership with Ledefyl has been fundamental for our sustained growth and innovation with a solid, resilient, and secure network. The DDoS protection project is just one example of what we can deliver to Puerto Rico with the right vision for innovation and technology.”

— Ivan Rivera, CEO, Osnet Wireless

Moving Forward

With Corero and Juniper in place, Osnet is well-positioned for continued growth. The integrated protection gives the team confidence to expand service without sacrificing stability. At the same time, Osnet is exploring new service models and monetization strategies that leverage Corero's protection to deliver added value to customers.

Corero Protection Solution Highlights

- Integration with Juniper MX and PTX routers
- Real-time, adaptive defense across layers 3 through 7
- Flexible deployment options including inline, data path, scrubbing, and hybrid
- High-availability architecture ensures continuous protection without disruption
- AI-assisted detection identifies new anomalies and blocks zero-day threats in real time
- Maintains performance and uptime with no impact to legitimate traffic
- Full visibility and forensic insights before, during, and after attacks
- Scales to support large, distributed, high-throughput environments

Osnet Wireless Develops Scalable, Secure Infrastructure with Corero and Ledefyl

