



Origin Protection service

On-demand/Always-on DDoS Protection for Internet Uplinks & Network Infrastructure



Angola Cables' OP service provides both on-demand and always-on protection to safeguard Internet uplinks and network infrastructure against sophisticated and large-scale DDoS attacks. Built on a high-capacity global scrubbing network with 56 points of presence (POPs), the service defends your infrastructure from multi-vector attacks. Real-time monitoring and intuitive portals give you full visibility and control.

DDoS Protection

Multi-layered detection and mitigation against network attacks across Layers 3 and 4.

Wide Flow Protocol Support

Multi-layered detection engine to analyze flow traffic data and detect traffic anomalies.

Cloud Diversion Automation

Automatic BGP route advertisement triggered upon detection of DDoS attacks.

Multiple Clean-traffic Delivery

Versatile Options to fit diverse network architectures and operational requirements

Global Scrubbing Network

56 POPs across the Americas, EMEA and APAC deliver high-capacity mitigation with Anycast routing to absorb and neutralise attacks closer to their source.

Simplified Management & Visibility

Cloud portal and Nexusguard Apps offer real-time dashboards, logs, and alerts; Role-based access control and REST API enable automation and integration.

KEY BENEFITS

Stronger Security Posture

Always-on monitoring, multi-layer detection, origin protection reduce downtime and malicious traffic.

Improved Service Availability & Reliability

A high-capacity global scrubbing network with 56 POPs and a 99.999% platform SLA keeps your DNS online even under severe attacks.

Flexible Deployment & Easy Integration

Enables CSPs to adopt the solution with zero latency impact and no significant changes to their existing network topology and routing policies, ensuring a seamless and non-disruptive rollout.

Simplified Operations & Full Visibility

Managed 24x7 by Angola Cables's SOC and accessible through an intuitive portal and Angola Cables Apps with real-time insights, reporting and alerting.

Angola Cables Global Scrubbing Network (56 POPs)

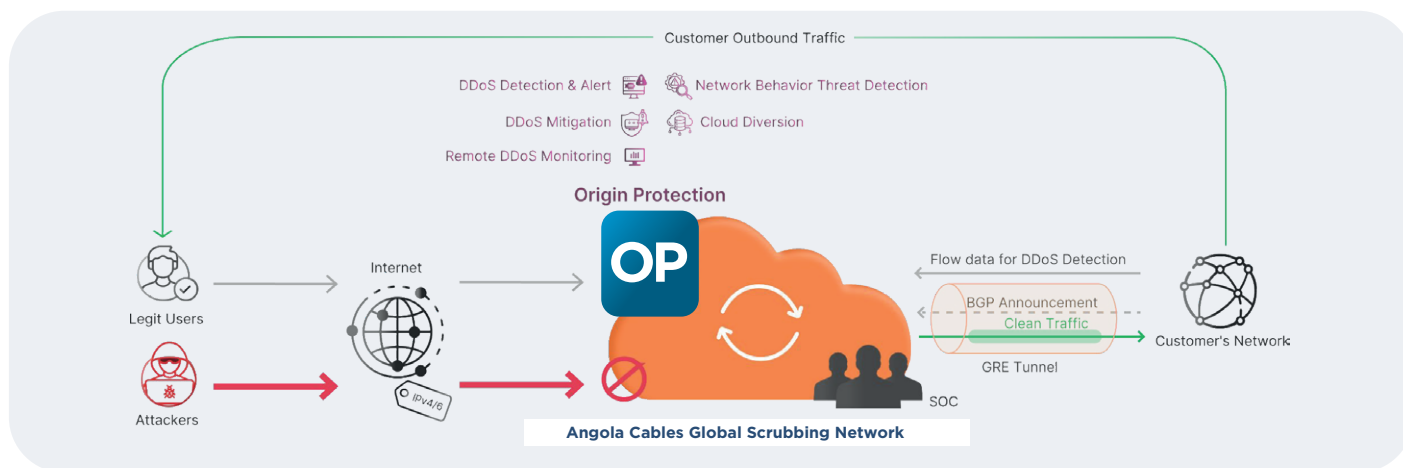


HOW IT WORKS?

Deployment is straightforward: when an IP prefix comes under attack, it is diverted to Angola Cables Cloud via BGP peering. Multi-layer detection continuously analyses volumetric patterns to identify anomalies. Once a malicious attack is detected, Angola Cables advertises the BGP route for the affected IP prefix to the Internet, triggering traffic diversion. Inbound traffic is inspected at the Angola Cables's global scrubbing centres, where malicious packets are discarded and only clean traffic is returned to the customer's network through a clean-traffic delivery channel.

Traffic diversion can be initiated manually or automatically through Angola Cables' proprietary Cloud Diversion App, enabling seamless activation without requiring any on-premise hardware. Alerts and detailed reports are delivered via the web portal and Angola Cables Apps.

ANGOLA CABLES OP DIAGRAM



WHO NEEDS ORIGIN PROTECTION?

- Large network owners, ASN-level CSPs, managing hundreds of Class C networks.
- High-traffic content providers, SaaS platforms, online gaming and media companies that need to scale without compromising security.
- Organisations running mission-critical applications in industries such as banking, government, healthcare and education.

TECHNICAL SPECIFICATIONS

Category	Details
Flow Collection	• Netflow v5/9; IPFIX; sflow v2/4/5; NetStream v5/8/9.
L3-L4 DDoS Detection	• Normal; Rapid; Smart detection modes.
L3-L4 DDoS Mitigation	• High-capacity scrubbing centres; source filtering, reputation-based blocking, bogon filtering, anti-flooding, custom filtering, rate limiting and traffic policing.
Deployment & Connectivity	• BGP anycast routing; clean traffic returned via GRE or Direct Connect; • IPv4/IPv6 origin support.
Management & Automation	• Role-based access control and REST API; intuitive portal with real-time dashboards, logs and reports; Notifier app; Cloud Diversion app; 24x7 SOC.
Security & Compliance	• ISO 27001, SOC 1 and SOC 2 certified; PCI DSS compliant; privacy and regulatory compliance; extensive logging and audit capabilities.
SLA & Support	• 99.999 % platform availability; global 24x7 support and incident response from Angola Cables SOC; optional professional services.

WHY ANGOLA CABLES?



HIGH-CAPACITY GLOBAL MITIGATION

56 scrubbing centres across the Americas, EMEA and APAC offer terabit-scale capacity and multi-layer defences.



MANAGED BY EXPERTS

Experienced security analysts deliver 24x7 SOC monitoring, analysis and incident response.



FLEXIBLE DEPLOYMENT

BGP anycast, Cloud Diversion App provides seamless integration and traffic diversion automation.



TRANSPARENT SLAS AND COMPLIANCE

99.999 % availability backed by ISO 27001, SOC 1/2 and PCI DSS certifications and detailed reporting.

ABOUT ANGOLA CABLES

Angola Cables is a global ICT and digital solutions provider with a strong international presence. The company specializes in connectivity solutions for the wholesale market and delivers tailored digital services and solutions across various industries, including cloud resources for the enterprise sector.

Recognized for its innovation, Angola Cables operates a robust global backbone network, providing access to major Internet Exchange Points (IXPs), Tier I carriers, and leading global content providers. With more than **30 Points of Presence (PoPs)**, connectivity to over **930 interconnected data centers**, and more than **6,000 peering agreements**, traffic across its international network exceeds **18,500 Tbps**.

The company owns and operates an extensive submarine cable network spanning more than **33,000 kilometers through the WACS, SACS, and MONET cable systems**. It further extends its reach by leveraging over **50,000 kilometers of partner cable infrastructure**, connecting the Americas, Africa, Europe, and Asia.

In addition, Angola Cables operates two world-class data centers: **AngoNAP Fortaleza in Brazil** and **AngoNAP Luanda in Angola**. The company also manages PIX in Brazil and Angonix in Angola—one of Africa's leading Internet Exchange Points (IXPs), directly connected to more than 45 IXPs worldwide.

With a significant international footprint, Angola Cables continues to expand its operations into strategic markets including Brazil, South Africa, the United States, Nigeria, and Portugal. By enabling intercontinental interconnection, the company drives digital and economic development and is ranked among the world's top 25 Internet service providers.

GETTING STARTED

To learn more about our products and services or to request a quote, please contact us:
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