



Application Protection service

Always-on DDoS, WAF, API and Bot Protection for Web Applications & APIs



Angola Cables WAAP service provides always-on protection that integrates multiple layers of security-volumetric DDoS defence, a web application firewall (WAF), API protection and bot mitigation-to ensure that your websites and APIs remain secure, available and fast. Built on a high-capacity global scrubbing network with 56 points of presence (POPs), Angola Cables WAAP shields your infrastructure from multi-vector attacks while optimising performance. Real-time monitoring and intuitive portals give you full visibility and control.

DDoS Protection

Multi-layered detection and mitigation against network and application-layer attacks across Layers 3, 4 and 7.

Web Application Firewall (WAF)

Managed rules covering OWASP Top Ten threats and zero-day exploits with secure header validation and customisable policies.

Bot Protection

Rate limiting, source reputation filtering, and geolocation controls.

API Protection

Per-endpoint IP allow/deny lists, HTTP method and header filtering, TLS termination with SNI and HSTS, rate limiting and behavioural analysis defend APIs against injection and abuse.

Global Scrubbing Network

56 PoPs across the Americas, EMEA and APAC provide high-capacity mitigation with Anycast routing, caching and PageSpeed acceleration to deliver content quickly worldwide.

Simplified Management & Visibility

Cloud portal and mobile 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, WAF, API and bot 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 applications online even under severe attacks.

Flexible Deployment & Easy Integration

Simple DNS routing with support for proxy and broad protocol and TLS support allow seamless integration with existing infrastructure.

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.

Optimised User Experience Globally

Geo-aware routing, caching and PageSpeed reduce latency and offload origin servers, delivering fast and reliable experiences worldwide.

✓ HOW IT WORKS

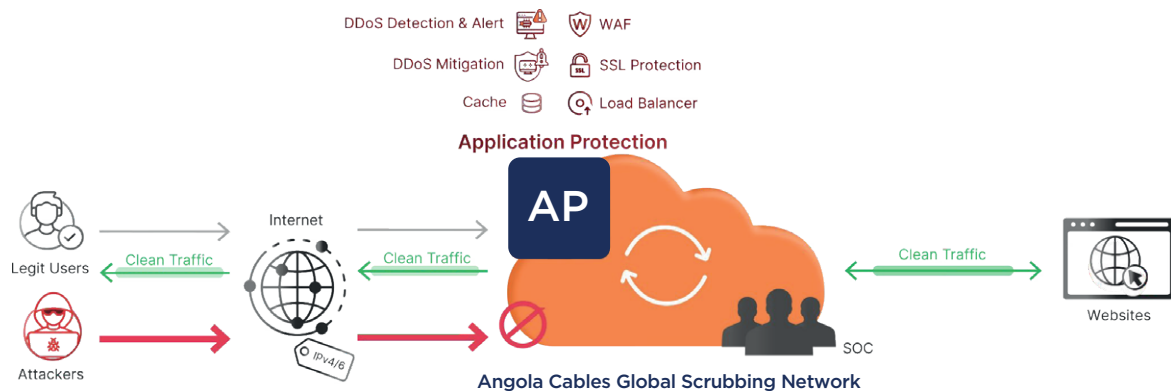
Deployment is simple: point your DNS to Angola Cables's anycast virtual IP address. In proxy mode, traffic is routed to the nearest scrubbing centre where malicious packets are scrubbed and clean traffic is forwarded to your origin via reverse proxy.

Multi-layer detection monitors volumetric patterns and application behaviour to detect anomalies. Our WAF blocks OWASP Top Ten exploits and enforces HTTP protocol compliance.

API protection policies filter requests by IP, HTTP method and header values and limit request rates to mitigate abuse.

Bot protection uses source reputation, and behavioural analysis to differentiate between legitimate users and malicious automation. Alerts and reports are delivered through the web portal and Angola Cables apps.

ANGOLA CABLES AP DIAGRAM



WHO NEEDS APPLICATION PROTECTION?

- Businesses with customer-facing websites and applications requiring uninterrupted service.
- Organisations running mission-critical applications in industries such as banking, government, healthcare and education.
- Companies handling sensitive or regulated data, including financial services, healthcare and e-commerce providers.
- High-traffic content providers, SaaS platforms, online gaming and media companies needing to scale without compromising security.
- Businesses without dedicated security teams that want to offload DDoS, WAF, API and bot defence to trusted experts.

TECHNICAL SPECIFICATIONS

Category	Details
Protocol & TLS Support	• HTTP/1.1, HTTP/2, HTTP/3; TLS 1.2/1.3 with certificate-based TLS termination, SNI and HSTS; supports TCP and UDP traffic.
L3-L4 DDoS Mitigation	• High-capacity scrubbing centres; source filtering, reputation-based blocking, bogon filtering, anti-flooding, custom filtering, rate limiting and traffic policing.
L7 DDoS & API Protectionz	• Behavioural traffic analysis; per-endpoint IP allow/deny lists; • HTTP method and header filtering; TLS termination; rate limiting; challenge-response authentication.
Web Application Firewall	• Managed WAF rules covering OWASP Top Ten and zero-day threats; header validation; customisable rules to tune policies for your applications and APIs.
API & Bot Protection	• User-defined policies for API endpoints; rate limiting to control API calls; behavioural analysis to detect abnormal patterns; • IP reputation and geolocation controls.
Web Optimisation & Load Balancing	• Caching and PageSpeed acceleration; round robin, least connections, weighted and source hashing algorithms for load balancing.
Deployment & Connectivity	• Cloud SaaS or hybrid models; simple DNS using Anycast virtual IPs; proxy mode; IPv4/IPv6 origin support; optional geo-aware Smart Route Policy and Warzone traffic isolation.
Management & Automation	• Role-based access control and REST API; intuitive portal with real-time dashboards, logs and reports; Notifier app; traffic diversion controls and attack alerts; 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 zSOC; optional professional services.
Optional Add-ons	• Smart Route Policy for geolocation-based routing; Warzone traffic isolation; • Origin containerisation and other professional services.

WHY ANGOLA CABLES?



Proven Technologies

Leverages Angola Cables's battle-tested detection and mitigation technologies, enabling partner CSPs to confidently deliver robust Clean Pipe services to their downstream.



Managed by Experts

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



SEAMLESS DEPLOYMENT

Leverages standard BGP and VLAN connectivity, widely supported across CSP environments, enabling quick integration with minimal network changes.



COMPLIANCE READY

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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