



DNS Protection service

Always-on DDoS Protection for
DNS zones & Name Servers



Angola Cables's DP service delivers always-on protection, multiple layers defence to safeguard your authoritative DNS infrastructure from volumetric DDoS defence and application-layer DDoS attacks. By leveraging a high-capacity global scrubbing network with 56 points of presence (POPs), the service ensures your DNS remains resilient, highly available, and responsive under even the most sophisticated attack scenarios. Real-time monitoring and intuitive portals provide full visibility, rapid insights and complete operational control.

DDoS Protection

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

DNSSEC Support

Ensures authenticity and integrity of DNS responses by using cryptographic signatures, preventing attackers from spoofing or tampering with DNS data.

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 and mitigation reduce downtime and blocked malicious DNS queries.

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

Authorized name server delegation enables seamless compatibility with existing DNS infrastructure.

Simplified Operations & Full Visibility

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

Enhances Domain Integrity

DNSSEC adds cryptographic validation to prevent tampered or forged DNS responses.

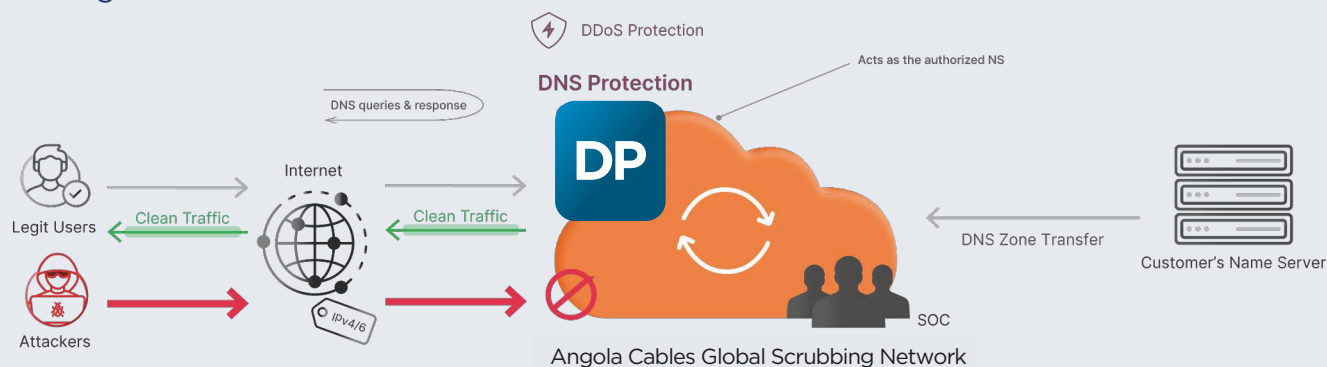
HOW IT WORKS

Deployment is simple: point your DNS delegation to Angola Cables' Anycast virtual IP address to immediately benefit from globally distributed protection. DNS traffic is as amplification attempts, high-rate floods, malformed packets, NXDOMAIN queries, and other DNS-layer exploits, are identified and filtered. Multi-layer detection analyses query volume, patterns, and behaviour to detect both volumetric and application-layer (L7) DNS attacks.

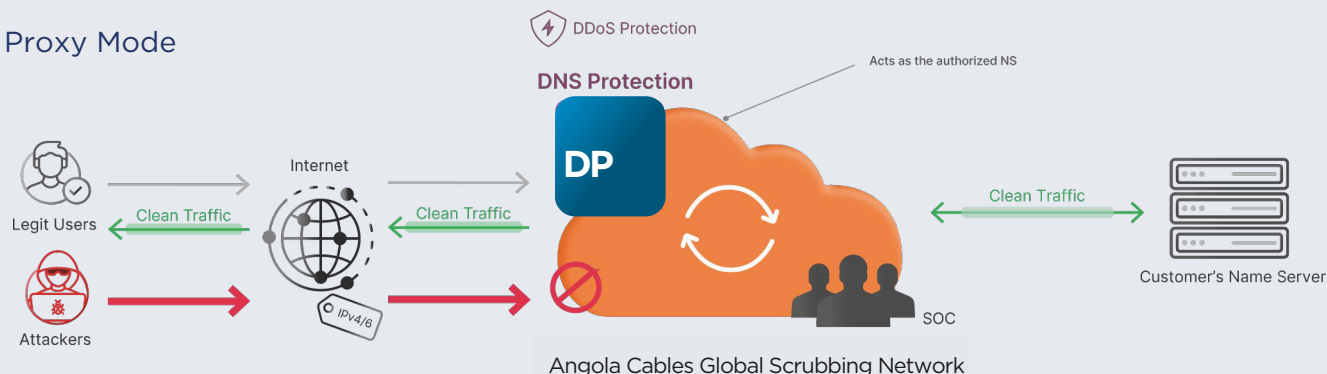
Protocol-compliance checks and query-level validation ensure that only legitimate DNS requests and responses are processed and forwarded to your authoritative servers. Alerts and detailed reports are available through the web portal and Nexusguard Apps, providing full visibility into attack activity and DNS performance.

ANGOLA CABLES DP DIAGRAM

Hosting Mode



Proxy Mode



WHO NEEDS DNS PROTECTION?

- Organisations that manage or host their own DNS zones.
- DNS and network service providers, including telecom operators, and ISPs offering DNS services.

TECHNICAL SPECIFICATIONS

Category	Details
DNS Support	• DNSSEC; DANE; ECS; IDN; AXFR
L3-L4 DDoS Mitigation	• High-capacity scrubbing centres; bogon filtering, anti-flooding, custom filtering, rate limiting and traffic policing.
L7 DDoS Mitigation	• Domain filtering, NXDOMAIN filtering, DNS error cache
Deployment & Connectivity	• Authorized name server delegation; proxy mode; • IPv4/IPv6 origin support.
Management & Automation	• Role-based access control and REST API; • Intuitive portal with real-time dashboards, logs and reports; • Notifier 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 CablesSOC; optional 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:
sales@angolacables.co.ao | www.angolacables.com | AS37468

