



**AI for Networks
Networks for AI**



Redefining Network Visibility with Aviz's Next-Gen DPI Engine

Unmatched application intelligence, category classification, and metadata flexibility — built for modern networks.

Introduction

Aviz introduces its **next-generation Deep Packet Inspection (DPI) engine**, embedded in the **Aviz Service Node (ASN)** -- a breakthrough in network observability.

Designed for modern enterprise, data center, and telecom environments, the new DPI engine delivers **granular, payload-aware visibility** across thousands of applications and protocols. Unlike legacy DPI solutions, it goes beyond headers and static ports to provide **real-time insights into what's truly happening on your network**.

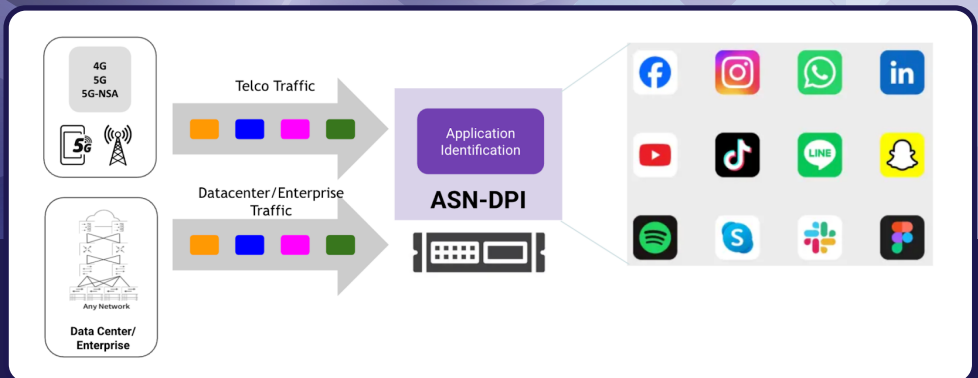


Figure 1: Aviz Service Node (ASN) Deployment for Application Identification

Key Capabilities

Identification of 2,700+ applications and **9,000+ subcategories** across collaboration, streaming, gaming, social, and enterprise platforms

Dynamic DPI updates ensure new apps and protocols are automatically detected -- no downtime required

Comprehensive classification by application, protocol, and category for tailored policies and network optimization

Export metadata seamlessly via JSON using Kafka Streams for integration with SIEMs or analytics platforms

Application, Protocol, and Category Intelligence

The Aviz DPI engine classifies traffic with high precision, enabling IT and network teams to see exactly which apps are running, how they behave, and how network resources are consumed.

Category	Example Applications
Collaboration	Zoom, Teams, Slack, Webex
Streaming & Media	YouTube, Netflix, Twitch
Gaming	Fortnite, PUBG, Roblox
File Sharing	Dropbox, Google Drive, OneDrive
Social & Messaging	WhatsApp, Telegram, Instagram

The Power of Metadata

Aviz DPI extracts **rich, contextual metadata** for every flow, providing actionable insights for traffic analysis, policy enforcement, and operational intelligence.

Protocol	Metadata Examples
HTTP	Hostname, URL path, user agent, content type, response code
DNS	Domain name, query type, response type, IPv4/IPv6 answers

Metadata can be **exported flexibly** to integrate with analytics platforms, SIEM tools, or custom dashboards -- helping enterprises and telcos make smarter, faster network decisions.

Dynamic DPI Updates

The network landscape evolves constantly — new apps, protocols, and traffic patterns appear daily. The **Aviz DPI engine** adapts automatically with **dynamic signature updates**, keeping application detection accurate **without downtime or manual redeployment**.

Conclusion

Deep Packet Inspection is no longer optional — it is **essential for full network visibility and control**.

The **Aviz Service Node with next-gen DPI engine** empowers organizations to:

- Identify thousands of applications with unmatched accuracy
- Classify traffic by application, protocol, and category
- Extract and export rich metadata for actionable insights
- Stay continuously current with dynamic DPI updates.

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