GenAI Solution Brief

Enable Network Co-Pilot for your Network Infrastructure

The Future of Networks Deployments

The rise of generative AI frameworks based on large language models is transforming the dynamics of human-computer interactions within data-driven applications. Networking is undergoing a similar transformation, given the evolution of data centers to meet the demands of advancing technology and the increased reliance on AI-driven computing. Enterprise and cloud data centers generate extensive operational and application data, offering significant visibility. Aviz envisions leveraging the capabilities of Large Language Models (LLMs) to distill this vast amount of data from Edge, Data Center, and Cloud Network Infrastructure into actionable business-driven summaries.

GenAI with Aviz Networks

Aviz Network Co-Pilot stands as the industry's pioneering vendor-agnostic Generative AI Solution, harnessing the capabilities of open-source Large Language Models (LLMs) to efficiently process, correlate, and simplify the intricate demands of networks. It is tailored for decision-makers, network administrators, and data center operators. Network Co-Pilot is driven by our ONES multi-vendor, multi-NOS data mobility platform, serving as the backend infrastructure for data ingestion, aggregation, and enrichment across diverse datasets, including Network State, Performance, and Application data.

Start as a leader
GenAI is future and one of the most important KPI for Executives. Get your KPI with Network Co-Pilot

Train Your Teams
Empower your teams with a Data and AI-centric approach through Network Co-Pilot. Facilitate precise and efficient training, allowing them to excel in responding to Generative queries.

Benefits

Long Term ROI
Co-Pilot is built on community-based LLMs, ensuring there is no vendor lock-in and designed for long-term return on investment (ROI).

In-House Control
Seize control of your internal data instead of relinquishing it to vertically integrated systems that hinder in-house innovations.

Use Case	What Network Copilot Solves
Network Upgrade Compliance	Streamline Regular Mandatory Pre/Post Checks and confirm Compliance with Operational and Configuration Standards
Network Audits	Reduce the workload of recurring audit reports across multi-vendor networks and integrate with customer tools for enhanced automation.
Network Performance Monitoring	Data ingestion from multi-tool data sources and Correlate data to deliver insights in real time.
Realtime Network Insights	Produce on-demand persona dashboards for both point-in-time and time-series data.
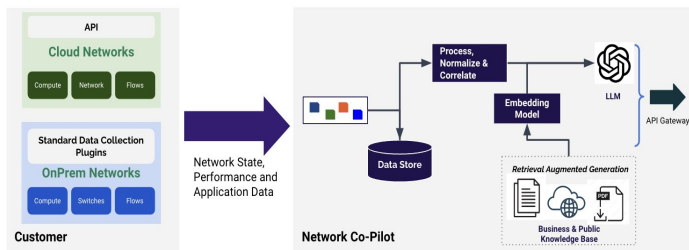
Setup Time for DEMO at hello@aviznetworks.com

Network Co-Pilot

Gateway to Gen-AI for your Networks

Aviz **Network Co-Pilot** is the industry's first vendor-agnostic Generative AI Solution, harnessing the capabilities of open-source Large Language Models (LLMs) to efficiently process, correlate, and simplify the intricate demands of AI driven networking. It is tailored for decision-makers, network research engineers, and data center operators. Network Co-Pilot is driven by our ONES vendor agnostic data mobility platform as the backend infrastructure for data ingestion, aggregation, and enrichment across diverse datasets.

Benefits

- Enables Gen-AI into your network infrastructure
- Go-to tool for ensuring business compliance and optimize operations.
- No Vendor-lock in empowering innovation

Use Cases

- **Network Upgrade Compliance:** Streamline Regular Mandatory Pre/Post Checks and confirm Compliance with Operational and Configuration Standards
- **Network Audit Reports:** Reduce the workload of recurring audit reports across multi-vendor networks and integrate with customer tools for enhanced automation..
- **Network Performance Monitoring**: Data ingestion from multi-tool data sources and Correlate data to deliver insights in real time.
- **Persona Driven Real Time Insights:** Deliver ad-hoc real time insights that suit the spectrum of end users ranging from network practitioners and decision makers
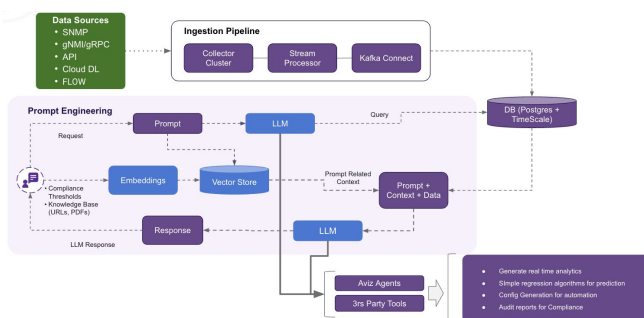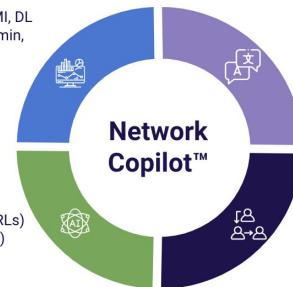

Capabilities

Data Pipeline
- **Collection**: SNMP, Flow, gNMI, DL
- **Process**: Calculations (avg, min, max), normalization
- **Storage**: Point-in-time & Time-series

Chat Prompt
- **Response:** Streaming, Timestamp, Replay, Export
- **Analytics:** Generate Table, Graphs, Charts
- **Feedback:** Acknowledge "Good" vs "Bad"

Knowledge Base
- **Context:** Customer (Files, URLs)
- **Fine tuning:** RAG (Vector DB)
- **KB Store:** Public Data (EOL, CVEs)

Agents Framework
- **Fine Tuning:** Few Shot, ReAct Prompting
- **Integration:** Customer Tools
- **Aviz Agents:** Use Case Driven

Deployment	Specification
On-Prem	**Software:** Ubuntu 22.04, Docker, NVIDIA CUDA 12 & Toolkit **CPU:** Intel CPU 64 Cores, RAM 256 GB, DISK 20TB **GPU:** Min Recommended 24GB RAM Supported Models RTX 3090 | 24 GB, RTX 4090 | 24 GB, A4000 | 16 GB, A5000 | 24 GB, A6000 | 48 GB, V100 | 16 GB
Cloud	**Software:** Ubuntu 22.04, Docker, NVIDIA CUDA 12 & Toolkit **CPU:** Intel CPU 64 Cores, RAM 256 GB, DISK 20TB **Instances GPU for Inference:** Nvidia T4 GPU 16 GB, A10 GPU 24 GB

Setup Time for DEMO at hello@aviznetworks.com