



**AI for Networks**  
**Networks for AI**

# Aviz Service Nodes Product Brief

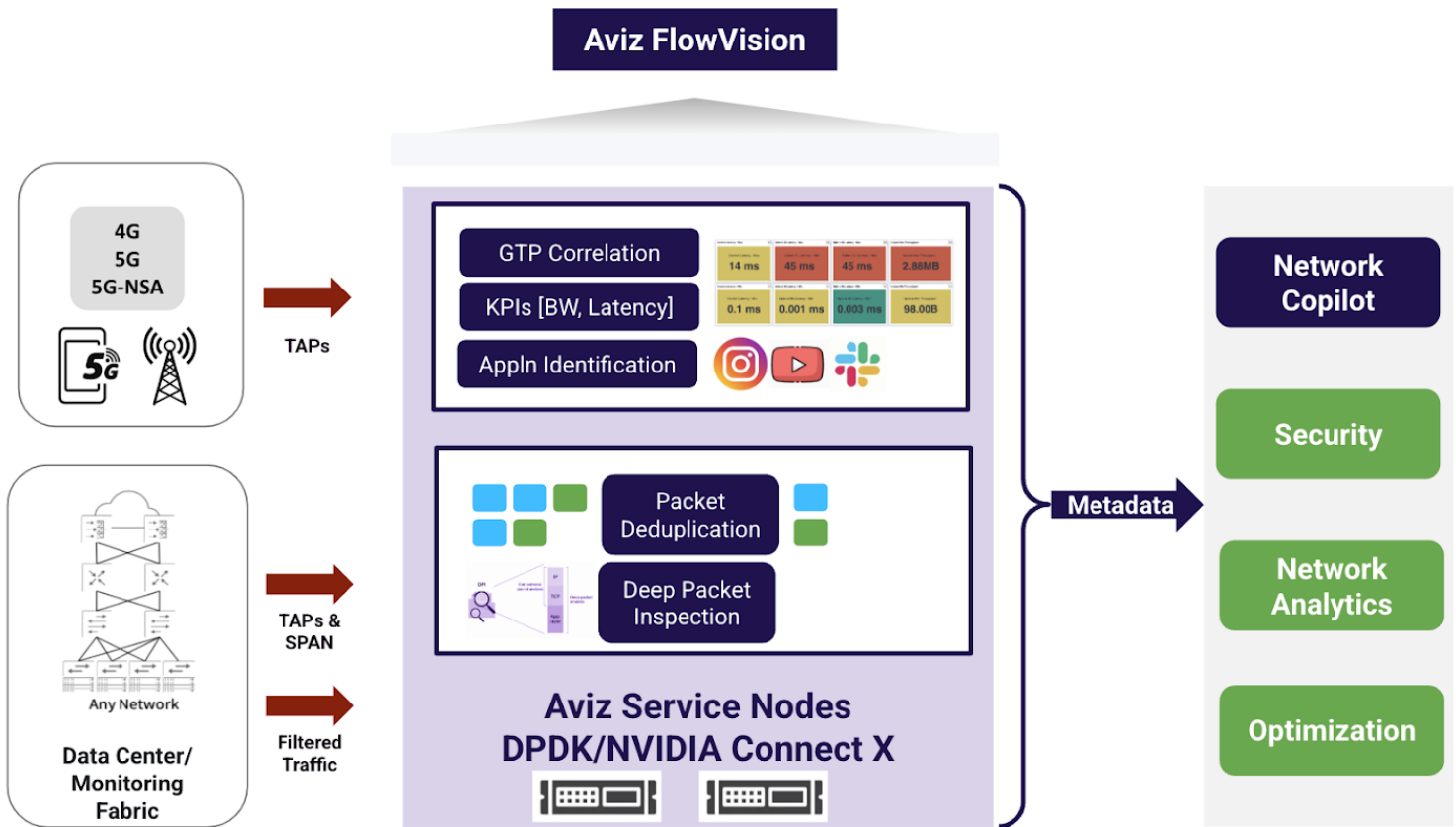
**Advanced Network Intelligence for** **Telco,**  
**Enterprise & Data Center:** **Optimizing Traffic**  
**Observability and Performance**

## **Demand for a Cost-Effective, Scalable and Uncompromised Observability Solution**

As networks grow, managing high-bandwidth traffic, ensuring visibility, and optimizing performance have become major challenges for enterprises and telcos. Increasing data loads, security threats, and operational complexity demand a smarter, more scalable approach to network monitoring. On top of that, duplicate network traffic captures create inefficiencies, increases processing overhead, and slows down performance.

## **Introducing Aviz Service Nodes**

Aviz Service Nodes (ASN) revolutionizes Network Observability with advanced filtering, deduplication, and intelligent traffic distribution. It integrates high-performance packet processing, deep packet inspection, and seamless packet capture to enhance visibility and security. Aviz Service Nodes delivers business relevant performance insights through real-time traffic analysis, correlation of network, application, and subscriber data, and generates KPI updates via Kafka.



## Benefits



### Optimized Performance

Intelligent packet deduplication eliminates redundant L2, L3, and L4 packets, reducing unnecessary processing overhead and improving monitoring efficiency by 30-50%.



### Deep Observability

Advanced Deep Packet Inspection (DPI) provides precise application identification, enabling stronger security policies, optimized resource allocation, and better network intelligence.



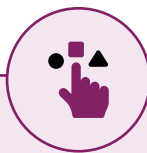
### Enhanced Troubleshooting

Real-time packet capture capabilities accelerate diagnostics and issue resolution, ensuring a smoother user experience and faster problem identification.



## Cost Efficiency

Lowers bandwidth and storage costs by removing duplicate traffic. Lets you choose cost-effective servers and NICs while supporting speeds from 10GbE to 100GbE.



## Choices

Easy integration with open-source and commercial tools for performance and security analytics.



## Enterprise, Data Center & Telco Readiness

Supports large-scale enterprise infrastructure and high-traffic telecom networks with seamless scalability, reliability, and high availability.

## Licensing Options

### Flexible Licensing:

1. ASN Subscriber – Tailored for telecom (4G LTE, 5G NSA/SA), enabling advanced traffic analytics.
2. ASN Application – Optimized for data centers, FTTH, edge, and campus networks with deep IP session and application-level insights.

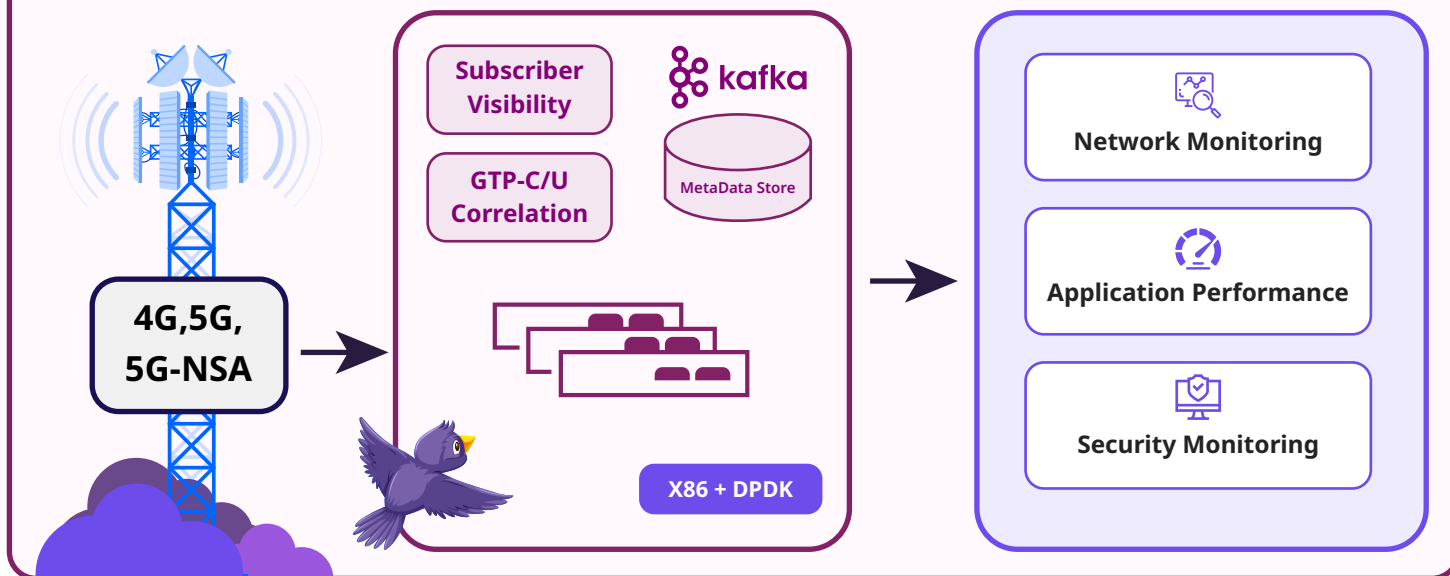
**Note: Customers can use both licenses simultaneously as needed on the same Aviz Service Nodes.**

Capabilities	Features
<b>Deep Packet Inspection and Data Correlation</b>	<ul style="list-style-type: none"> <li>• 4G LTE &amp; 5G NSA Traffic Extraction &amp; Correlation.</li> <li>• 5G Correlation, GTP Correlation, and Stateful Flow Sampling.</li> <li>• GTP-C/U Correlation for 4G-EPC &amp; 5G NSA..</li> <li>• Metadata Extraction for S1-U, S11, N3, N4, N11.</li> <li>• N4 and N3 Correlation for 5G-SA.</li> <li>• N4 or N11 and N3 Correlation for 5G-SA.</li> <li>• N4 SBI Metadata Extraction for Ericsson 5GC vTap.</li> <li>• Subscriber-Aware Load Balancing.</li> <li>• Advanced Filtering, Forwarding, Load Balancing, and Header Stripping.</li> <li>• KPI Calculation</li> <li>• IP session management.</li> <li>• Upto 3M Subscribers with 45M sessions</li> </ul> <p><b>New Features</b></p> <ul style="list-style-type: none"> <li>• Intelligent Packet Deduplication</li> <li>• Next Generation Application Identification with Advanced DPI</li> <li>• 1000+ Applications with 45M session</li> </ul>
<b>Management Features</b>	<ul style="list-style-type: none"> <li>• Management Functions: CLI, SNMP, API, NTP, GUI</li> <li>• Metadata export via Kafka</li> <li>• Redundancy via HA</li> </ul> <p><b>New Features</b></p> <ul style="list-style-type: none"> <li>• Real time packet capture support</li> </ul>

## Use Cases

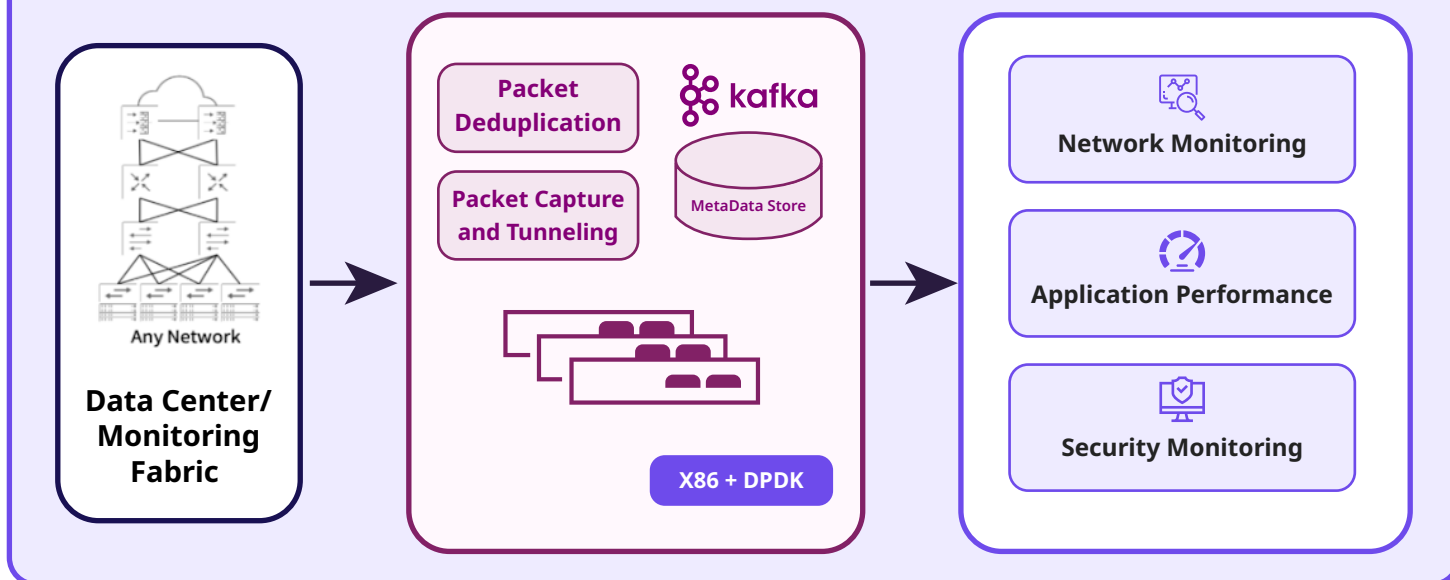
### Aviz Service Nodes for Telco

Mobile Subscriber Quality of Experience Tracking



### Aviz Service Nodes for DC/Enterprise

Application Identification and Performance Insights





## Conclusion

Aviz Service Nodes provides a transformative approach to handling large-scale network traffic with greater intelligence and efficiency. By integrating real-time filtering, deduplication, deep packet inspection, and seamless metadata distribution via Kafka, organizations will get business relevant performance insights. Whether for enterprise or telco applications, Aviz Service Nodes empowers businesses with next-gen visibility, security, and performance optimization

**See Aviz Service Nodes in action and discover  
how it can transform your network intelligence.**

**Book a Demo Today**

