Aviz Service Nodes (ASN) for TELCO

Enhancing Network Monitoring for TELCO 4G/5G-NSA/5G-C Networks

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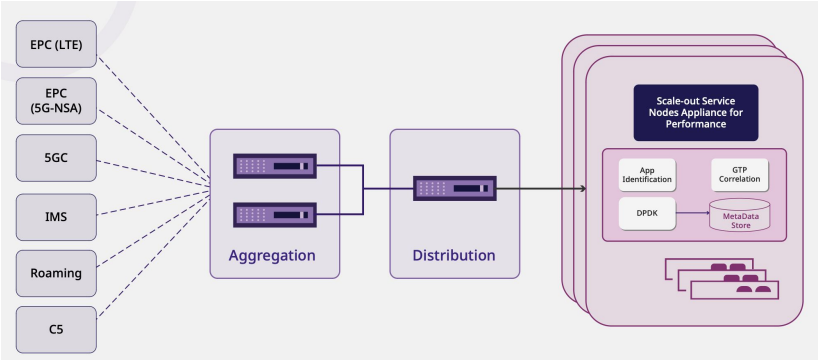
Demand for a Cost-Effective, Scalable and Uncompromised Observability Solution

Network operators today are facing a relentless onslaught. The surge in data from widespread cloud usage, the rapid proliferation of Internet of Things (IoT) devices, and the demand from bandwidth-heavy applications are pushing 4G-LTE/5G-NSA/5G-C networks to their breaking point. In addition to these challenges, the constant threat of cyberattacks and the ongoing development of crucial business applications require a novel strategy for packet inspection and analysis. Traditional techniques are finding it hard to keep up with the increasing complexity.

Aviz Service Node (ASN)

ASN is a scalable and cost-effective solution with a software defined approach provides an intelligent method for packet analysis, leading to enhanced visibility. This solution offers a transparent look at network activities across all types of connections, such as 4G-LTE/5G-NSA/5G-C , making it easier to pinpoint bottlenecks and identify potential security threats. With this all-encompassing strategy, network operators are better equipped to handle the complexities of the current networking environment.



Cost Reduction

Software defined ASN solution on Commodity Servers eliminates proprietary part significantly reducing the CapEx and OpEx.

Lock-in Freedom

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

Benefits

Unleashed Efficiency

Allows for the choice of commodity servers and NICs to leverage available speeds (from 10GbE to 100GbE).

Future Ready

AI-Enabled application

Data-driven networking for 5G deployments

Capabilities	Features
Packet Processing, Correlation & Metadata Export	• LTE, 5G-NSA Correlation based on - S11(GTP-C) and S1-U (GTP-U) • 5G-SA Correlation based on - N4(PFCP) and N3 (GTP-U) • 5G-SA Correlation based on - N11(SBI-HTTP2) and N3 (GTP-U) • Multi PDU/Bearer Session Handling • User Location Info extraction • gNodeB/eNodeB/AMF/MME handover • Application Identification • Load Balancing • Decapsulation, Header Stripping (VXLAN, GRE)
Management	• Redundancy and HA • Metadata Export via Kafka • Redundancy & High Availability • Management Functions: CLI, SNMP, API, NTP, GUI