



Anuta ATOM automates the Mobile Packet Backbone Network in Africa

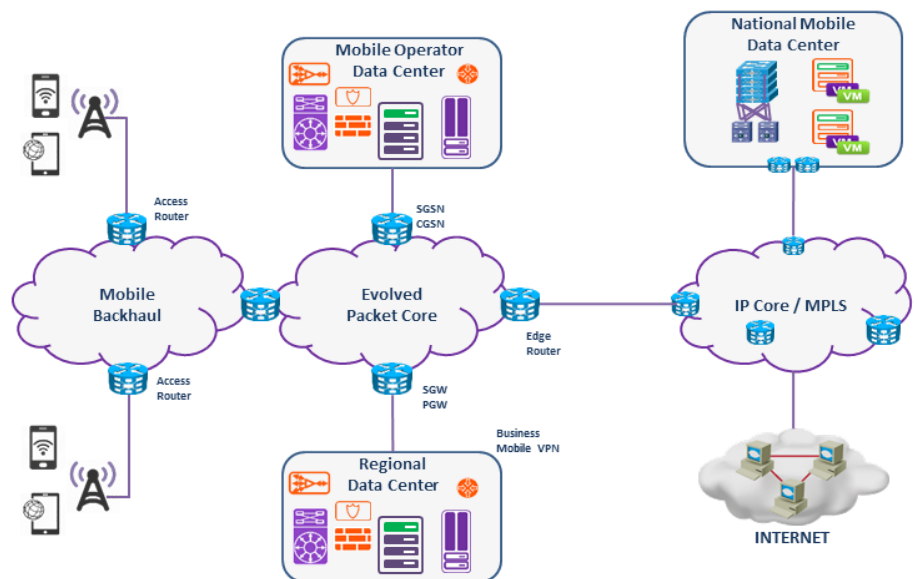
Airtel Africa, a leading mobile network operator (MNO) across the vast expanse of Africa, is dedicated to providing unparalleled services to millions of subscribers. With a commitment to enhancing connectivity and digital access, Airtel, serving 134.7 million mobile subscribers, sought to address the diverse challenges posed by the continent's varied landscapes and infrastructural limitations. Anuta Networks stepped in to transform Airtel's network automation capabilities, enabling seamless operations and paving the way for expanded service offerings.

Customer Profile

Company	Airtel Africa
Industry	Service Provider
Region	EMEA
Products used	Juniper Apstra, Anuta ATOM, PTX Series, MX Series, QFX Series

Desired Architecture

- Scalable transport network upgraded to 400G to support increased data demands.
- Enhanced mobile core infrastructure for improved service agility and operational efficiency.
- Standardized network operations across diverse African countries to streamline management.
- Future-proof design to accommodate advancements such as 5G deployment and SD-WAN integration.
- Seamless integration with existing systems and technologies to ensure interoperability and continuity.



Key challenges:

- Standardizing network operations across 14 diverse African countries with varying landscapes, infrastructures, and technical expertise levels.
- Upgrading the transport network to 400G and enhancing mobile core infrastructure to ensure service agility and operational efficiency across regions.
- Slow and expensive manual provisioning of VPN services
- Operational complexity due to ad-hoc policies by local Opcos
- High MTTR stemming from poor visibility of network and service health.

Anuta ATOM Advantages

- Automated provisioning of L2/L3VPN services with support for OSPF, BGP, LDP, RSVP-TE, QoS, and Multicast reduces manual intervention and speeds up service delivery.
- Simplified software upgrades for MX, SRX, and QFX devices, streamlining maintenance processes and ensuring seamless operations.
- Comprehensive Fault, Configuration, Accounting, Performance, and Security (FCAPS) management capabilities, enhancing network reliability and security.
- Efficient Element Management System (EMS) for centralized control and network device monitoring.
- End-to-end service orchestration for rapid deployment and scalability.
- Closed-loop automation for proactive fault detection and resolution.
- Policy-driven configuration management for consistency and compliance.

Anuta's Solution

Anuta Networks provided a comprehensive solution tailored to Airtel's needs, offering advanced capabilities to address critical network challenges. Leveraging Anuta ATOM, Airtel streamlined the provisioning of L2/L3VPN services, incorporating protocols such as OSPF, BGP, LDP, RSVP-TE, QoS, and Multicast, thereby enhancing service delivery efficiency. Additionally, the platform facilitated seamless software upgrades and robust Fault, Configuration, Accounting, Performance, and Security (FCAPS) management for key network devices, including MX, SRX, and QFX series. Integrating Element Management System (EMS) functionalities further centralized control and monitoring, empowering Airtel Africa to optimize network operations and ensure high service availability and reliability.

Our integrated voice, data, and mobile money services support 85% of the population in 14 countries in Africa. Anuta ATOM automated the provisioning and monitoring of the MPBN, delivering an intuitive customer experience at affordable levels.

- Chief Network Architect, MPBN Planning & Design, Tier-1 Telco in Africa

Business Outcomes

- Automated and Standardized MPBN provisioning
- Reduced MTTR via Closed-Loop Remediation
- Geo-redundant deployment for HA and Scale

Conclusion

With Anuta Networks' advanced automation solutions, Airtel Africa continues to make strides in bridging the digital divide and expanding connectivity across the continent. By embracing cutting-edge technology and strategic partnerships, Airtel Africa is well-positioned to capitalize on the vast potential of the African telecommunications market, driving further growth and innovation in the years to come.