Algeria Telecom modernizes metro networks for 5G and high-speed Internet

As Algeria prepares for the arrival of 5G, Algeria Telecom, the state-owned telecom operator, has undertaken a monumental effort to improve the quality and accessibility of Internet service. Juniper and NEC have worked closely with Algeria Telecom to modernize its Metro, Core and BNG networks for a five-fold boost in Internet speed and to expand the availability of services across the country.

OVERVIEW

Company	Algeria Telecom
Industry	Service Provider
Products Used	MX2020, MX960, MX2008, MX480, EX9200, EX2300, EX4300, Anuta ATOM, NorthStar Controller
Region	EMEA

CUSTOMER SUCCESS AT-A-GLANCE

5X
Increase in Internet speeds across this Saharan country

Expand Internet
Increase access to high-speed Internet with modern metro network

20 Mbps
Average Internet speed across Algeria

Simplify
Network planning, design and operations with automation

CHALLENGE

Improve high-speed Internet access across Algeria

With a goal of massively improving Internet quality and accessibility, Algeria Telecom set out to modernize its metro networks to deliver the best possible user experience at scale.

An open, agile, and automated network would allow Algeria Telecom to support the rollout of 5G, optimize Internet service quality, simplify operations, and future-proof its infrastructure investment.

SOLUTION

An open, agile, automated network

Algeria Telecom worked with NEC and Juniper to ensure a smooth deployment in a country that spans from the mountains to the arid desert.

NEC provided extensive professional services to engineer and build the new metro networks. Juniper MX Series Universal Routing Platforms provide simple, secure connectivity at scale in those networks.

The Juniper Paragon™ Automation solution, including Paragon Pathfinder and Paragon Planner, gives Algeria Telecom deep visibility into its network and services while simplifying operations. This paves the way for assured user experiences with complex 5G and multicloud services. The provider also uses the Juniper NorthStar Controller to simplify traffic engineering and Anuta ATOM for stateful configuration compliance and device lifecycle management.

OUTCOME

Automated network paves the way for 5G

Together, NEC and Juniper helped Algeria Telecom achieve its objective of providing a high-capacity, innovative network to accommodate surging data traffic and future 5G use cases.

"The successful completion of the IP metro network modernization project by our partners, NEC and Juniper, will allow us to make the migration to IPv6, initiate digital transformation, and implement high-speed Internet, as we best satisfy the needs of Algeria Telecom customers," says Allahoum Hocine, head of IP core at Algeria Telecom.

Algeria Telecom enhanced the speed and accessibility of Internet services to the citizens and businesses of Algeria. Subscribers enjoy a five-fold increase in speed with far superior Internet service quality and services now reach 50% percent more of the population (planned to reach 67% of the population)

Expanded access to Internet digital services can have a profound impact on Algerian's lives, helping create new jobs and improve people's lives.

"The rapid growth of network traffic is a clear indication of the need for modernization and expansion of network capacity. Overall, the innovative solutions from Juniper enabling this automated metro cloud architecture have helped us achieve our strategic goals and thrive as we pave the way for 5G."

Adel Bentoumi
CEO of Algeria Telecom

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