IPv6 Enhanced, the Cornerstone of African Digitalization

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Digitalization: A Global Development Strategy

Digital economy growing faster than GDP

Digitalization strategies released by 100+ countries

- EU's Recovery Plan
- America's Advanced Manufacturing Strategy
- China's 14th Five-Year Plan
- Digital South Africa
- Strategic plan of ICT Department
- Morocco Digital 2025
IP Networks: Foundation for Digitalization

Connecting everything → IP On Everything ← Connecting apps
Requirements for IP Networks in the Digital Era

Massive IoT

- Driven by 5G/IoT/cloud services, the number of IoT devices (including consumer and B2B devices) is expected to reach **41.2 billion** by 2030.
- Support for massive IoT is a basic capability.

Multi-cloud connection

- More than **93%** of enterprises will adopt **multi-cloud** by 2024.
- Cloud agility, flexibility, and auto scaling bring challenges to the real-time performance, flexibility, and mobility of networks.

Guaranteed experience

- Emerging apps such as industrial control and telemedicine require **us-level** E2E jitter.
- Deterministic service quality is essential.
Africa Need IPv6 & Enhanced

IPv4 address exhaustion
Since 21 Apr 2017

IoT Connections
~1.2B in 2025
~10% CAGR

MBB Users
~634M in 2025
~4% CAGR

Technology-oriented
IPv6 increases address space

Business-oriented
IPv6 Enhanced improves experience

Increased address space
Reduced admin
Auto configuration

Improved SLAs
Lower latency
Improved programmability
Easier operations
IPv6 Enhanced Boosting Africa’S Digital Transformation

Digital Equality

Every individual & enterprise owns an IP address, Creating more opportunities

Digital Transformation

High-reliable and low-latency IPv6 network, improving productivity

Technological Innovation

Meets massive IP address demand of AI, IoT and cloud, Unleashing computing power

Economic Growth

Boost new services development Open up new growth space
IPv6 Enhanced @ **Carriers**, Building High-Quality IP Network to ensure the best experience at the Oran Games

The 19th Mediterranean Games in Algeria Oran

**Wi-Fi services Speed**

**N → 1 Network**
deterministic experiences

**Wi-Fi 6 full coverage**
High-density and high speed Wi-Fi service for 40,000 users

**E2E network slicing**
3 x Dedicated network slices for deterministic experiences

**SRv6+SDN**
Minute-level service provisioning and Intelligent traffic steering

**80M → 190M**
Algeria, North Africa
IPv6 Enhanced @ Public Services, Building a Fully Connected City IoT

New public services drive the construction of "one city network"

- Video cloud
- Gov. cloud
- IoT cloud

**Doubled computing power**
IPv6 network with zero packet loss, fully releasing computing power

**One network for all**
Network slicing, multi-service isolation

**Numerous addresses**
IPv6 can address each grain of sand on the planet

Guangdong, China

- 83% Online public service handling rate
- 41% Official doc handling efficiency

River regulation
Garbage regulation
Energy regulation
Manhole cover regulation
Agricultural regulation

Carrier NB-IoT network, self-built eLTE-I/U network
IPv6 Enhanced Has Reached a Consensus in the Industry

IPv6 Enhanced Global Deployment

Europe
- Netherlands KPN
- Switzerland Swisscom
- Spain OSP
- Luxembourg POST
- Ukraine Vodafone
- France Iliad

Middle East
- Zain, Saudi Arabia
- Kuwait Zain
- Bahrain Bnet
- STC, Saudi Arabia
- Vodafone Oman

Africa
- Uganda MTN
- Rwanda
- Algeria Telecom
- South Africa MTN

Asia Pacific
- Japan Softbank
- Japan Line
- Indonesia Indosat
- Indonesia XL
- Sri Lanka Dialog

China
- China Telecom
- China Unicom
- China Mobile
- Agricultural Bank of China
- Bank of China
- China Construction Bank
- China Southern Power Grid

America
- LinkedIn, USA
- Bell, Canada
- Vivo, Brazil
- AM in Central America

IPv6+ maturity

Commercial use
Innovation/Target network
Huawei Proprietary - Restricted Distribution

Huawei Provide E2E IPv6 Enhanced Solutions and Products

Full series, Full functions, Stable operation, Stable supply

- **ATN910D-A**
  - 5.5G-oriented CSG
  - 800G@1U, 100GE to ring

- **ATN910D-C**
  - Industry’s most compact edge CO router
  - Industry-unique 300 mm deep universal-service router

- **NetEngine 8000 M14/M8/M4**
  - Upgrade to 3.2T

- **NetEngine 8000 F8**
  - Upgrade to 6.4T

- **NetEngine 8000 F2C**
  - New 6.4T/device

- **NetEngine 8000 X16/X8/X4**
  - 1T/2T bundle 1T/2T Flexible LC

- **F8 model**: 40% less power consumption, 1.5x port density

- **Industry's highest-density metro aggregation router**

- **Industry's largest-capacity backbone router**
  - 19.2T/slot, 800GE ready

**Full Series Convergence Capabilities**
- 5-in-1: SR + BNG + CGN + IPsec + SA

**E2E IPv6 Enhanced**
- SRv6/SRvIFIT/Slicing ready in full series

**E2E 400GE**
- Available in both box and chassis models
Thank you.

把数字世界带入每个人、每个家庭、每个组织，构建万物互联的智能世界。
Bring digital to every person, home and organization for a fully connected, intelligent world.

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