

NATIONAL IPV6 TRANSITION STRATEGY GUIDELINES AND BEST PRACTICES

IPV6

الاجتماع التاسع الطاولة المستديرة
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- 2011, National Broadband Strategy “eMisr” strategic objectives:-
 1. Recognize Egypt as a front-runner in digital communications,
 2. Increase job opportunities,
 3. Stimulate economic growth nationwide,
 4. Harmonize with other sectors in the Government to improve the quality of life for all citizens, and
 5. Avoid an increased digital divide within Egypt.

- 2016, the Egyptian government launched **Egypt Vision 2030** reflecting the long-term strategic plan to achieve the principles and goals of sustainable development (SDG) in all fields.

The fifth strategic goal is “**Well-Developed infrastructure**”

- Objectives and goals of eMisr and Egypt Vision 2030:
 - Availability
 - Expanding the geographical coverage of the broadband infrastructure (rural and non-economical areas)
 - Increase the number of the broadband subscriber's base
- “Minimizing the digital divide within Egypt”**

- Challenges:

- Limited supply of IPv4 addresses (90+ M users for BB applications, IoT and AI).
- ISPs network (core/access) not fully support IPv6
- CPEs don't support IPv6.
- IPv6 technicalities
- ccTLD (.eg) servers do not support v6

Transition Best Practices

- Study: IPv6 C\Cs and Transition Techniques
- Set: Transition Strategic Plan
 - Define Infrastructure components
 - Put Addressing Plan
 - Put Network/Data Security Plan
 - Choose Suitable Transition Technique
 - Building Capacity Plan
 - Estimate Transition Cost
- Do: Network Testing (Testbeds)
- Deploy: Transition Roadmap

National IPv6 Transition Strategy

- May 2025, NTRA launched the IPv6 Transition Strategy
- The Strategy divided into phases over 5 years
- Milestones and KPIs for each type of network/service
 - Mobile Network
 - Fixed Network
 - Government Network
 - WiFi AP hotspots
 - Local hosted Websites/e-services/mobile APP
- NTRA will monitor the deployment progress and achievement of KPIs

- IPv6 deployment within **3 years** becomes an obligatory on mobile operators as per the **5G License** terms for coverage plan.
- Currently, Etisalat-Egypt is routing **7 million** IPv6 addresses for its customers.
- Vodafone-Egypt is using IPv6 for VoLTE calls.
- Other mobile operators will follow in few months.



Thanks