

---

# **Merits of National and Regional IXPs for Nigeria and Africa**

by

**Engr. E. C. A. Ndukwe,**  
Executive Vice Chairman / CEO,  
Nigerian Communications Commission,  
Abuja, Nigeria

# Benefits of National or Regional IXPs

---

- QoS advantages
- Reduces transit costs
- Lower latency
- Healthy cooperation among competitors
- Scaling bandwidth
- International cooperation
- Enables point of presence activities
- Creates new business models for ISP services
- Increased quantity of local Internet traffic

# Obstacles to IXP Deployment

---

- Current providers of international links present strong resistance. In most cases, a dominant operator would like to leverage its legal exclusivity over international links by charging premium rates.
- Some regulators may be reluctant to sanction activities of erring operators. For a variety of reasons, the operators often weigh in on the decisions by regulatory authorities.
- Competitive ISPs themselves regularly resist the formation of IXPs. Current market leaders fear the effects of making connectivity cheaper for their competitors.
- Small competitors are also very reluctant to synergize their efforts, reflecting an unhealthy competitive environment.
- Other obstacles exist, such as legal barriers, problems with initial peering negotiation, and operational, cost, security, business, settlement issues.

# Current IXP Efforts in Africa

---

- In Nigeria, the Ibadan IXP (<http://www.skannet.com/ibix.htm>) is operational. The exchange, formed by ISPs based in Ibadan and commissioned on March 25, 2002, facilitates the exchange of local Internet data traffic between networks in Ibadan.
- The Ugandan IXP (<http://uixp.co.ug>), which is actively supported by (and has received a license from) the Ugandan Communications Commission.
- Other preliminary efforts are going on in Tanzania, Mozambique, and Ghana.
- AfrilSPA, a brainchild of some ISPs in South Africa and Kenya, is an association of some African ISPs to organize non-profit, neutral ISP associations in each African country, and support IXPs deployment. An ambitious goal of AfrilSPA is to directly link every African country by fiber optic.
- AfrilSPA also plans to create a Pan African Virtual Internet Exchange (PAVIX), which would interconnect all IXPs in Africa.

# Policy Suggestions

---

- Import duty tariff rates for Internet infrastructure and equipment should be minimal, different from the current regime of high tariff rates for almost every equipment.
- There is an urgent need to reduce the current high per-minute charges, and the need to make all calls to each point-of-presence (POP) local by mandating local call charges for Internet, regardless of distance to POP.
- Governments to work towards the total deregulation of international links.
- Regulators should demonstrate high integrity and standards when dealing with ISPs and telecommunications operators.