

Sudan

NATIONAL IPV6 TRAINING CENTER

1 Background

Internet is without any doubt is the most effective means of communication making it possible to reach a great number of people around the world. With the massive deployment of services based on Internet, the issue of the exhaustion of Internet addresses is becoming more critical. The current version used to address Internet is IPv4 (Internet Protocol version 4), which has been used for more than thirty years. In addition to other features, IPv6 (Internet Protocol version 6) with its 128 bit address space is aimed to overcome the current shortage of address resources. IPv6 was standardized since 1998 in RFC 2460. However, the transition from IPv4 to IPv6 is going at a rather slow rate.

Indeed, on Thursday February 3rd a press organized by IANA confirmed that IPv4 is exhausted at the international level. These make a major milestone in the evolution of Internet and raise a yellow flag for the RIRs and the telecom operators.

NTC (National Telecom. Corp.) as the ICT leader in Sudan collaborate with various global Internet supporters to encourage the migration to IPv6. Hence, The Sudanese IPv6 Taskforce (SDv6TF) was reactivated in the 1st of August 2010 to assure the wide deployment and smooth migration to IPv6 from all stockholders (Including but not limited to; Intergovernmental Agencies, Operators, Manufactures, ISPs, Academia, and Legal).

Since the beginning, there are many achievements toward deploying IPv6, a status report of the IPv6 situation in Sudan is available at <http://www.itu.int/en/ITU-T/ipv6/Pages/cstudies.aspx>

2 National IPv6 Training Center

In May 2011, NTC throw the SDv6TF established a non for profit Authorized Training Centre (ATC) at NTC Tower in close collaboration with National Advance IPv6 Center (NAV6) from USM Malaysia. Instructors were trained as trainers according to NAV6 train-the-trainers program. Then they setup the IPv6 training Lab at NTC. The Lab. equipped to facilities 25 participants per session. The session is five days covering all CNE6 Level-1. During 2011 twelve sessions were organized with 347 participants, 182 of them passing the exam and certified as IPv6 Engineers.

3 Request to ITU Support on Deploying IPv6 in Sudan

Refereeing to;

3.1. WTSA-08 Resolution 64 (Johannesburg, 2008) instructs the Director of TSB, in close collaboration with the Director of BDT, to initiate a project aims to assist developing countries readiness to migrate to IPv6, respond to their regional needs as identified by BDT; establish a website to provide information about global activities related to IPv6; promote awareness of the importance of IPv6 deployment, facilitate joint training activities, and to provide information to developing countries,

3.2. Opinion 5 (Lisbon, 2009) of the World Telecommunication Policy Forum (WTPF), on capacity building in support of the adoption of IPv6, and

3.3. Resolution 63 (Hyderabad, 2010) of the World Telecommunication Development Conference, on IP address allocation and encouraging the deployment of IPv6 in the developing countries,

NTC ask ITU to support the National IPv6 Training Centre, by covering the running cost for another twelve sessions. NTC Propose to provide CNE6 Level-1 to participants from Middle East and African Region under the supervision of ITU regional offices. Also the virtual Lab can be accessed over Internet to let the remote participants practices IPv6.
