

**WTPF-IEG/3/13**

**OPINION (n) Supporting Capacity Building for the deployment of IPv6**

The fifth World Telecommunication Policy Forum (Geneva, 2013),

 *considering*

a) WTSA Resolution 64 (Rev Dubai, 2012) on the subject of IP address allocation and encouraging the deployment of IPv6;

b) Plenipotentiary Resolution 180 (Guadalajara 2010) on Facilitating the transition from IPv4 to IPv6, especially ‘resolves 1 – to explore ways and means for greater collaboration and coordination between ITU and relevant organizations e.g Regional Internet Registries (RIRs), and the Internet Society (ISOC)

c) the completion of the activity by the IPv6 working group, that was established by the Council at its 2009 session (see document CO9/93)

d) WTPF Opinion 5 (Lisbon, 2009) calling for acceleration of activities related to WTSA Resolution 64;

e) the work of BDT and TSB already undertaken on the subject of IPv6;

f) that IPv6 address allocation and deployment is an important issue for Member States and Sector Members;

 *recognizing*

a) the contribution of RIRs for their technical policies for the management of IPv4 addresses and the their migration to IPv6 policies

b) that migration to IPv6 is gaining speed and that many prominent international web-based businesses have already implemented IPv6 portals;

c) that the very large address space of IPv6 enables global connectivity to many more electronic devices, mobile phones, laptops, in-vehicle computers, televisions, cameras, building sensors, medical devices, etc;

d) that IPv6‘s security, when enabled and configured with the appropriate key infrastructure, in form of IPsec, will enhance authentication, encryption, and integrity protection at the network layer;

e) that, nevertheless, the proportion of IPv6 traffic on the Internet remains very small;

f) that needs based address allocation should continue to underpin IPv6 address allocation; and

g) the contribution of ISOC and the RIRs for information sharing and experience in raising awareness including providing valuable technical support

 *That the Directors of the TSB and BDT have:*

1) initiated a project to assist developing countries, responding to their regional needs as identified by the Telecommunication Development Bureau (BDT); this project should be carried out jointly by the Telecommunication Standardization Bureau (TSB) and BDT, taking into consideration the involvement of those partners willing to join and to bring their expertise;

2) established a website that provides information about global activities related to IPv6, to facilitate awareness-raising and the importance of IPv6 deployment for all ITU members and interested entities, and provides information related to training events being undertaken by relevant entities in the Internet community (e.g. Regional Internet Registries (RIRs), Local Internet Registries (LIRs), operator groups, the Internet Society (ISOC));

3) promoted awareness of the importance of IPv6 deployment, to facilitate joint training activities involving appropriate experts from the relevant entities, and to provide information to developing countries;

4) studied and concluded on the question of IPv6 address allocation and registration for interested members and, especially, developing countries and to report to the ITU Council;

 *is of the view*

a) that every effort should be made to encourage and facilitate the transition to IPv6;

b) that policies of inter RIR transfer across all RIRs should ensure that such transfers are needs based and be common to all RIRs irrespective of the address space concerned;

 *invites*

a) the TSB and BDT to continue their work related to WTSA Resolution 64 in building human capacity in developing countries to exploit IPv6 allocation, working in collaboration with other stakeholders, especially between the ITU and relevant International organizations like the RIRs and ISOC;

b) Member States to consider policies and incentives to encourage, facilitate and support the fastest possible adoption and migration to IPv6 within their jurisdictions; and

c) Sector Members with web and Internet business to offer their services via IPv6 as quickly as possible.