

RESOLUTION 63 (HYDERABAD, 2010)

IP address allocation and encouraging the deployment of IPv6 in the developing countries

The World Telecommunication Development Conference (Hyderabad, 2010),

recognizing

that IPv4 to IPv6 migration and deployment is an important issue for Member States and Sector Members,

noting

- a) that Internet Protocol (IP) addresses are fundamental resources that are needed for the development of IP-based telecommunication/information and communication technology networks and for the world economy;
- b) that many countries believe that there are historical imbalances between the developed and developing countries related to IPv4 allocation;
- c) that transition from IPv4 and migration to and deployment of IPv6 addresses is necessary in order to respond to global needs;
- d) that many developing countries have not made this transition,

referencing

- a) the studies in allocation of IPv4 and IPv6 addresses by ITU-T Study Groups 2 and 3 called for in WTSA Resolution 64, and by the IPv6 Working Group in Plenipotentiary Resolution 180;
- b) the observation in PP 180 that IPv6 deployment provides an opportunity for the development of ICTs;
- c) the call to monitor current allocation mechanisms (including equitable distribution of addresses), to identify any underlying flaws and to communicate proposals for changes in existing policies in PP 180;
- d) the ongoing ITU-T studies noted in PP 101 on IP-based network issues, including interoperability with other telecommunication networks, numbering, signalling requirements and protocol aspects, security and infrastructure costs, issues associated with the evolution and migration to next-generation networks (NGN), and implementation of ITU-T Recommendation D.50;
- e) the requirements, features and interoperability of next-generation networks (NGN) and future networks that PP 102 calls for taking into account in understanding the development of IP-based networks and the Internet as crucially important advances for growth in the world economy,

observing

- a) that IP addresses may be used to designate the source and destination of IP packets transmitted in a manner that produces a general purpose, open Internet platform between autonomous networks, or they may be used by packets transmitted

in more specialized ways within networks that implement specialized treatment by applying a common policy across their own routers;

b) that the development of ICTs and addressing of technical or policy issues in the process of deploying IPv6 may either support the general purpose Internet platform between networks or support specialized types of functions that work within networks, including next-generation and future networks,

c) that policies and technological solutions may provide for the special characteristics and advantages of either type of network,

recommending

that the ITU Council support the coexistence of both types of networks in its approval of the BDT Director's initiatives in support of IPv6 deployment, and in applying the provisions of Resolution 64 (Rev. Dubai, 2012) of the World Telecommunication Standardization Assembly and the outputs of Correspondence Group 1 of the IPv6 Group in the ITU Telecommunication Standardization Sector,

resolves

1) to instruct the Director of the Telecommunication Development Bureau (BDT), taking into account the ITU Council's approval:

- to develop guidelines through Programme 2, as requested for developing countries, to enable adjustment of the organizational frameworks and policies necessary for migration to and deployment of IPv6;
- to collaborate closely with relevant entities (e.g. IETF, LIRs, RIRs, the Internet Society, in addition to others), to provide human capacity development, training and other assistance in line with Programme 4;
- to initiate the project under Programme 2 to assist developing countries, after having determined regional needs in respect of the transition, taking into account Resolution 64 (~~Johannesburg, 2008~~Rev. Dubai, 2012) of the World Telecommunication Standardization Assembly and also the results of the work of Correspondence Group 1 of the IPv6 Group in the ITU Telecommunication Standardization Sector;
- to allocate the necessary funds to implement this resolution within existing BDT budgetary resources;

2) to call upon Member States and Sector Members to provide the necessary support for implementation of this resolution.