International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

WORLD TELECOMMUNICATION STANDARDIZATION
ASSEMBLY
Johannesburg, 21-30 October 2008

Resolution 64 – IP address allocation and encouraging the deployment of IPv6

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications, information and communication technologies (ICTs). The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

RESOLUTION 64

IP address allocation and encouraging the deployment of IPv6

(Johannesburg, 2008)

The World Telecommunication Standardization Assembly (Johannesburg, 2008),

recognizing

a) Resolution 102 (Rev. Antalya, 2006) of the Plenipotentiary Conference, and its instructions to the Director of the Telecommunication Standardization Bureau;

b) the results of the ITU workshop on IPv6, which took place on 4-5 September 2008;

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

noting

a) that IP addresses are fundamental resources that are essential for the future development of telecommunication/information and communication technologies IP-based networks and for the world economy;

b) that many countries believe that there are historical imbalances related to IPv4 allocation;

c) that large contiguous blocks of IPv4 addresses are becoming scarce and that it is urgent to promote migration to IPv6,

considering

a) that, among the relevant stakeholders in the Internet community, there is a need to continue discussions related to IPv6 deployment so that countries better understand these important issues;

b) that IPv6 deployment is an important issue for Member States and Sector Members,

resolves

to instruct Study Groups 2 and 3, each according to its mandate, to study the allocation and economic aspects of IP addresses, taking into consideration the challenges and issues identified in the report of the chairman of the 4-5 September 2008 workshop on IPv6,

instructs the Director of the Telecommunication Standardization Bureau, in close collaboration with the Director of the Telecommunication Development Bureau

1 to initiate a project to assist developing countries[1], 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 participate and to bring their expertise;

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[1] These include the least developed countries, small island developing states and countries with economies in transition.

2   to establish 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 (RIR), local Internet registries (LIR), operator groups and the Internet Society (ISOC));

3   to promote 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,

further instructs the Director of the Telecommunication Standardization Bureau

to study the question of IPv6 address allocation and registration for interested members and, especially, developing countries and to report to the 2009 session of the ITU Council,

invites Member States and Sector Members

to contribute to these activities.