

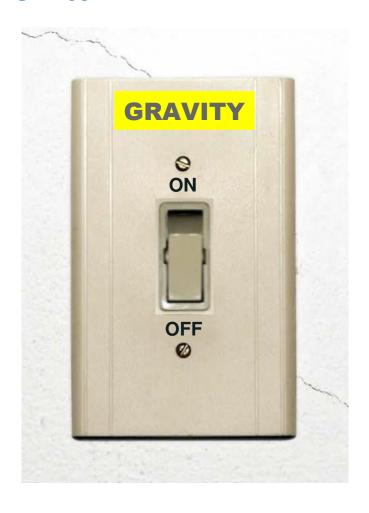
IPv6 and the ITU, an update for UKNOF

Matthew Ford



InternetSociety.org

Flick the switch...





International Telecommunication Union

- Agency of UN, headquartered in Geneva
- •191 member states, 700+ sector members
- Radio frequencies, satellite orbits, telecoms infrastructure in developing countries, standards
 - ITU-R: Radiocommunication
 - •ITU-T: Standards
 - ITU-D: Development
- •ITU membership mix is unusual for UN agency
 - Member States are decision-makers
 - Sector Members (non-government) can also play roles



The ITU Role in Internet Standards and Governance

- The current ITU role in Internet Standards and Governance is defined by:
 - WSIS Outcomes
 - Key Resolutions and Decisions of past ITU Conferences, Assemblies and Council
- The International Telecommunication Regulations (ITRs) also provide for the establishment of Special Arrangements (Article 9) to:

"facilitate the establishment, operation, interconnection, and use of special telecommunication networks, systems and services, in order to meet specialized international telecommunication needs within and/or between the territories of the Members concerned"



What's all this about IPv6?

- IPv6 workshop, September 2008
 - Chaired by Nabil Kisrawi, Syrian delegation
 - Report of the meeting doesn't identify any issue with IPv6 address allocation
 - Referenced by Resolution 64 of World Telecommunications Standardisation Assembly (WTSA), 2008



WTSA Resolution 64

- Joint TSB/BDT project to assist developing countries with IPv6 deployment
- Establish a website
- To promote awareness of the importance of IPv6 deployment, joint training
- ... oh, and instructs director of TSB to 'study the question of IPv6 address allocation and registration' to report to Council 2009
 - TSB commissioned 2 studies:



TSB Study: NAV6

- Studies proposal to create parallel CIR (Country based Internet Registry) structure
- Concludes model is both technically and operationally viable
- Full report:
 http://www.itu.int/dms_pub/itu-t/oth/3B/02/T3B020000020



TSB study: Milton Mueller

- Proposes market-oriented allocation mechanism
- Blocks transferable, fees related to size of the block
- No needs assessment, limits on deaggregation
- Proposes ITU could develop a model framework
- Full report: http://www.itu.int/dms_pub/itu-t/oth/3B/02/T3B020000020

.



TSB recommendations for WTSA resolution 64

- Create a Cross-Sectoral group between ITU-T and ITU-D members to:
 - draft a global policy proposal for the reservation of a large IPv6 block
 - study ways to ensure 'equitable access' to IPv6 resource by countries
 - study the possibility for ITU to become another Internet Registry
 - propose policies and procedures for ITU to manage an IPv6 block
 - study the feasibility and advisability of implementing the CIR model
- Adopted and created by the ITU Council in 2009



Everything old is new again

- Houlin Zhao's paper on Internet governance, 2004
 - http://www.itu.int/ITU-T/tsb-director/itut-wsis/files/zhao-netgov(

"I have discussed with some industry experts my idea that, in addition to the current arrangements for allocation of IPv6 address by the RIRs, one could reserve a portion of the large IPv6 space for country-based assignments, that is, assign a block to a country at no cost, and let the country itself manage this kind of address in IPv6."

 Houlin Zhao is now Deputy Secretary General of ITU and the likely next Secretary General of ITU.



That round led to:

- NRO Response to ITU Comments on the Management of Internet Protocol (IP) Addresses
 - http://www.nro.org/documents/nro17.html
- Paul Wilson: The Geography of Internet Addressing
 - http://www.circleid.com/posts/the_geography_of_internet_addressing
- Geoff Huston: Possible Responses...
 - http://www.ripe.net/info/internet-management/possible- responses.html
- All referenced in ISOC's more recent briefing:
 - 'A Fine Balance: Internet number resource distribution and de-centralisation'
 - https://www.isoc.org/pubpolpillar/docs/address-allocation_200906.p



ITU IPv6 Group

- •1st meeting, 15-16 March 2010, Geneva
 - Syria, on behalf of 'several Arab states' tried to motivate creation of ITU IPv6 registry along CIR lines
 - Several other national delegations, plus Internet technical community couldn't understand what the problem with the current model was
 - Created 2 CGs (mailing lists)
 - One to discuss capacity-building project
 - Other to discuss identifying problems with existing RIR model



CG2

- Terms of Reference:
 - to identify concerns and issues with the current IP address management system, in particular those highlighted by developing countries,
 - to study the extent of impact of the identified concerns/issues on the developing countries, and
 - to seek and identify solutions within the current IP address management system.
- Majority of inputs supported current RIR model
- No consensus that any of the concerns raised had any validity or basis in fact



IPv6 Group redux

- •2nd meeting, 1-2 Sept 2010, Geneva
- Outcomes
 - CG1 (Capacity Building) continues
 - CG2 goes 'dormant'
 - Liaisons sent to ICANN, IAB, NRO and ACSIS on
 - Public policy regarding IPv4
 - Syrian concerns
 - CIR model
 - Next meeting scheduled for 7-8 April, 2011, Geneva



In the meantime...

ITU Plenipotentiary Conference 2010 (PP-10) Guadalajara, Mexico October 4-22, 2010



- Top policy-making body of the ITU.
- Held every four years
- Sets the ITU's general policies
- Adopts the ITU's four-year strategic and financial plans
- Elects Members of the ITU Council and the Radio Regulations Board
- Determines the ITU's role in the development of Information and Communications Technologies (ICTs) and networks, including the Internet

