August 12, 2008



IPv6 Status and Update



Hiroshi Esaki, Ph.D.

Professor, The University of Tokyo Group Leader, SPARC, JGN2-Plus, NiCT Executive Director, IPv6 Promotion Council of Japan Board member, WIDF Project Board of Trustee, ISOC



SPARC

Dr. Masaki HIRABARU has passed away on July 29th, 2008.



- Born in 1960 (48 years old)
- The first chair of JPNIC operational committee
- One of founders of WIDE Project
- A lot of contribution to APAN community

Summary / Agenda

- 1. Special Task Force has been established, to come up with the depletion of IPv4 address resource.
- 2. Recent Status and Issue of Internet Traffic P2P Technology may resolve the situation
- 3. "Green IT" projects; Sensor network to contribute to the "Earth" and it's "Environment" using ICT technologies
- 4. Update of <u>IPv6 Ready Logo Program</u> by IPv6 Forum
 - USA has been serious!



in this arena.....

No IPv6 Connectivity

Ten years ago, on August 10, 1998, the IESG announced the protocol action to make a set of Internet-Drafts into Draft Standards, now RFC 2460 to RFC 2463.



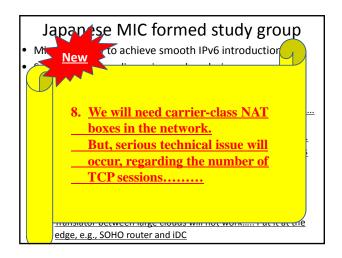
Japanese MIC formed study group

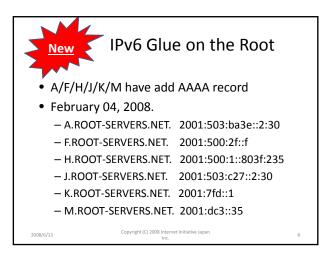
- Mission: "How to achieve smooth IPv6 introduction"
- Some interesting discussion and analysis
 - 1. There is no free lunch! All must pay money on IPv6.
 - 2. Squeezing out the global IPv4 address from existing network looks so hard.... JPNIC had got less than 2% of address space..
 - 3. IPv4 address exchanging market may generate the company accounting issue, since IPv4 address may become as an asset.
 - 4. Broadband Internet consumes a lot of global IP(v4) addresses
 - 5. RIPE is large IPv4 address consumption as well as BRICs area.
 - 6. The largest sacrifice is business/service deployment for new companies and for legacy companies
 - Contents provider and system integrator should join
 - Translator between large clouds will not work..... Put it at the edge, e.g., SOHO router and iDC

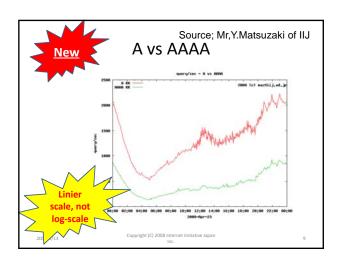
Japanese MIC formed study group

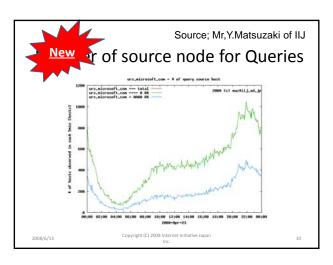
- Mission: "How to achieve smooth IPv6 introduction
- 6. The largest sacrifice is business/service deployment for "new" companies and for "legacy" companies
- 7. Contents provider and system integrator should/must join, see the Google's IPv6 site

ransiator between large clouds will not work..... r de le de al le edge, e.g., SOHO router and iDC

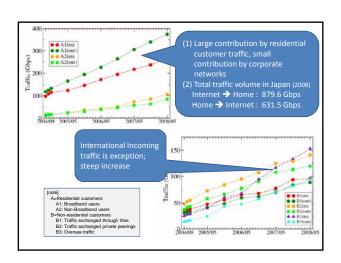


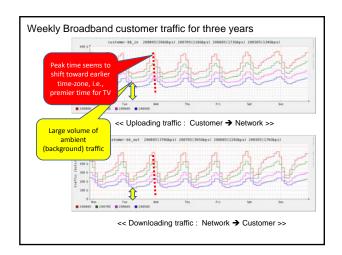


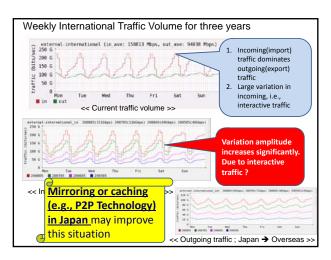


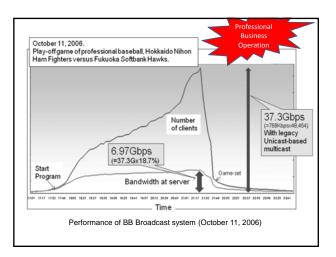


Summary / Agenda 1. Special Task Force has been established, to come up with the depletion of IPv4 address resource. 2. Recent Status and Issue of Internet Traffic P2P Technology may resolve the situation 3. "Green IT" projects; Sensor network to contribute to the "Earth" and it's "Environment" using ICT technologies 4. Update of IPv6 Ready Logo Program by IPv6 Forum USA has been serious!





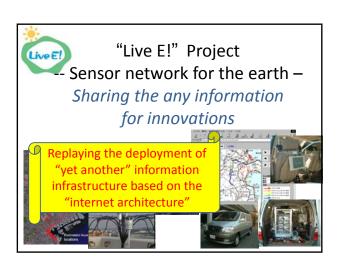


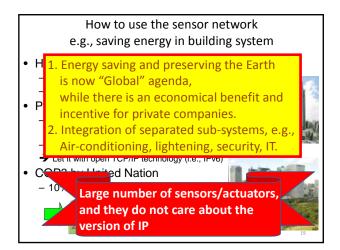


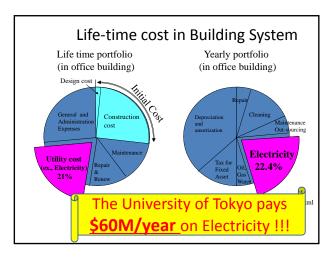
Summary / Agenda 1. Special Task Force has been established, to come up with the depletion of IPv4 address resource. 2. Recent Status and Issue of Internet Traffic P2P Technology may resolve the situation 3. "Green IT" projects; Sensor network to contribute to the "Earth" and it's "Environment" using ICT technologies 4. Update of IPv6 Ready Logo Program by IPv6 Forum USA has been serious!

Why we go to new continent?

- Contribution of revenue by ICT industry in the GDP is less than 10%.
- More than <u>90% revenue</u> in GDP is come from non-ICT industries.
- Almost all the companies, including non-ICT industries, depends on ICT technology on their corporate operation.
- How to use the ICT defines the marketing power and operating power of companies.







Business in FY2007 and 2008

- 2007
 - Integration with Digital Home Appliances
 - TV set by Panasonic works as window for facility control and management in residential area
 - Live E! WS at APNG Camp (Aug.2007)
- 2008
 - Beijing Olympic Game 2008
 - Live E! WS at APNG Camp (August 14th, 2008)
 - Energy Saving Field Trial in the University of Tokyo



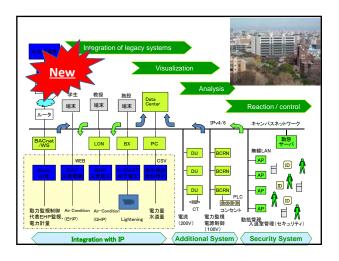


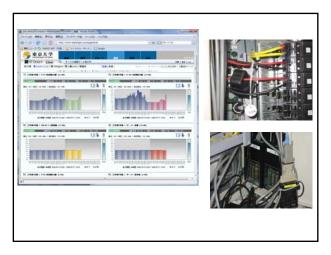


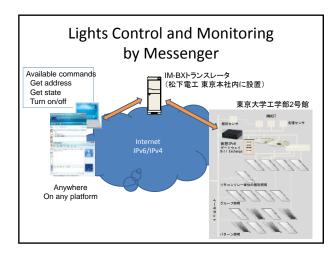














Summary / Agenda

- 1. <u>Special Task Force</u> has been established, to come up with the depletion of IPv4 address resource.
- 2. Recent Status and Issue of Internet Traffic P2P Technology may resolve the situation
- "Green IT" projects; Sensor network to contribute to the "Earth" and it's "Environment" using ICT technologies
- 4. Update of IPv6 Ready Logo Program by IPv6 Forum
 - USA has been serious!

IPv6 Forum IPv6 Ready Logo Program Phase-2 Update

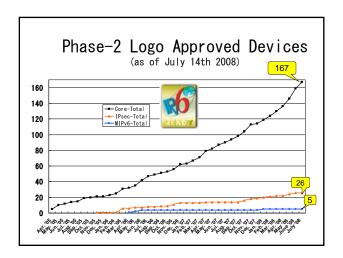


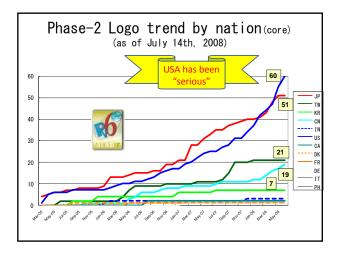
Good News ☺

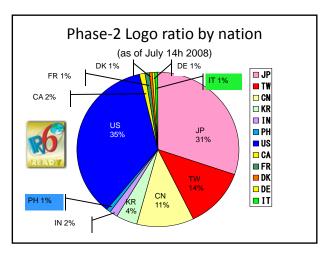


- JATE has joined to IPv6 Forum IPv6 Ready Logo Program.
 - Lol (Letter of Intension) has been signed up between IPv6 Forum and JATE on Nov.19(Mon), 2007 at Canberra, Australia
- NIST(USA) and IPv6 Ready Logo Committee has been signed up the MoU for collaborative operation

IPV6 Promotion Council







Are you interested in?

- IPv6 Ready Logo Program Laboratory
 - BII of China has established IPv6 Ready Logo Laboratory in Beijing.
 - Nav6 of Malaysia is interested in to establish the IPv6 Ready Logo and Testing Laboratory.
- SIP/IMS Interoperability testing
 - SIPit in the Spring of 2009
- IETF meeting in Japan
 - November 9-13, 2009, at Hiroshima

Summary

- Special Task Force has been established, to come up with the depletion of IPv4 address resource.
- 2. Recent Status and Issue of Internet Traffic P2P Technology may resolve the situation
- 3. <u>"Green IT" projects</u>; Sensor network to contribute to the "Earth" and it's "Environment" using ICT technologies
- 4. Update of IPv6 Ready Logo Program by IPv6 Forum
 - USA has been serious!

