

Japan's Collaborative Endeavor to overcome IPv4 Address Exhaustion

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http://kokatsu.jp/en/

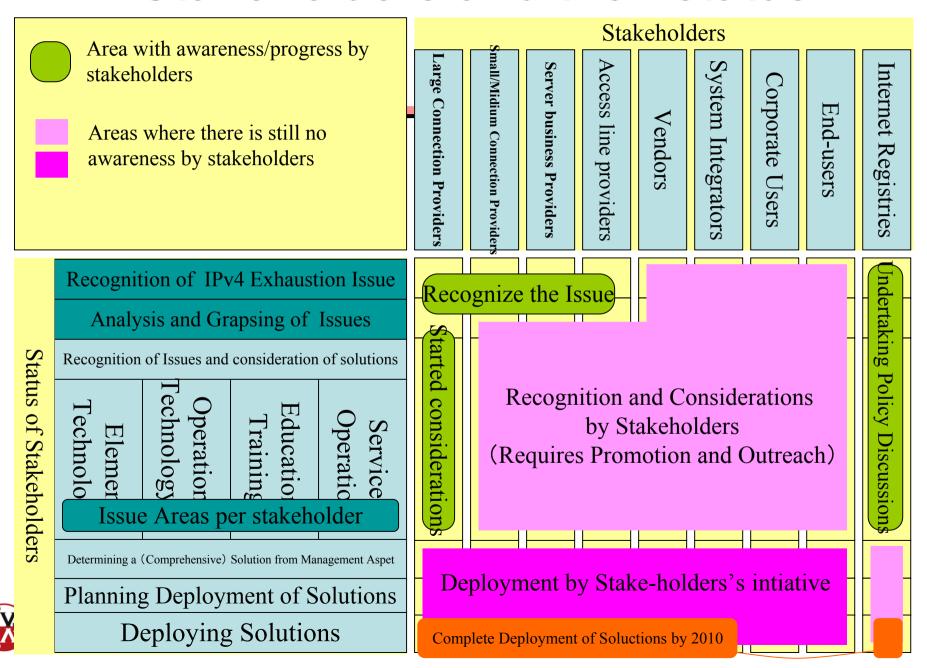
March 2010

To summarize... The last slide first

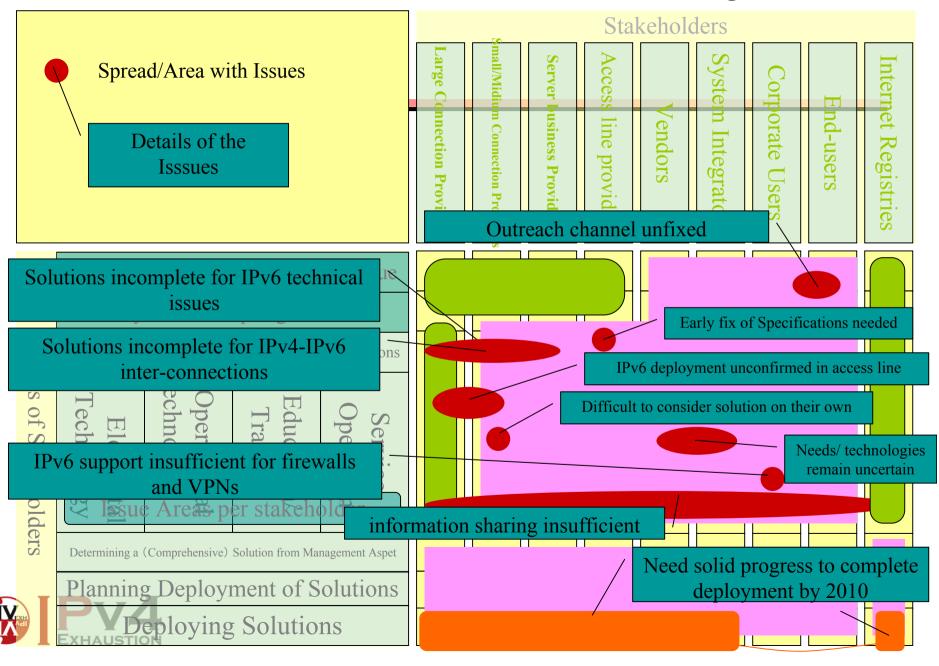
- Obvious need for collaborative endeavor to solve "watching to see what the others will do" situation
- Task Force on IPv4 address exhaustion, Japan for such a solution
- Information, Information !! not only IPv6 technologies, but the potential risk and "what the others do"
- Exhaustive and substantial endeavors are already on-going



Stakeholders and their status



Stakeholders and their remaining issues



Synchronized action toward the the exhaustion

- Set up a TF to make coordinated actions among all stakeholder groups
- Task Force on IPv4 Address Exhaustion,
 Japan launched in Sept. 2008
 - http://kokatsu.jp/
 - Members: Various
 associations from Telco and
 Internet industries, and the
 Ministry concerned





Charter of the taskforce

- Formulating a taskforce to synchronize the activities by various associations
- to overcome the crisis of the IPv4 address exhaustion in a coordinated manner
- In four aspects of
 - Solution of the issues technique, operation and management
 - Enlightenment and publicity
 - Education
 - Progress management



Members – the taskforce (1/2)

Internet Associations

IPv6 Promotion Council, Japan

Internet Association of Japan (IAjapan)

Distributed IX Project

Japan Internet Providers Association

JPCERT Coordination Center

Japan Network Information Center (JPNIC)

Japan Network Operators' Group (JANOG)

Japan Network Security Association (JNSA)

Japan UNIX Users Society (jus)

Japan Registry Services (JPRS)

WIDE Project

http://v6pc.jp/

http://www.iajapan.org/

http://www.distix.net/

http://www.jaipa.or.jp/

http://www.jpcert.or.jp/

http://www.nic.ad.jp/

http://www.janog.gr.jp/

http://www.jnsa.org/

http://www.jus.or.jp/

http://www.jprs.co.jp/

http://www.wide.ad.jp/

Government

Ministry of Internal Affairs and Communications(MIC)



Members – the taskforce (2/2)

- Telecommunications Associations
 - Telecom Services Association http://www.telesa.or.jp/
 - Telecommunications Carriers Association http://www.tca.or.jp/
 - Japan Cable and Telecommunications Association http://www.catv-jcta.jp/
 - Japan Data Communications Association (JADAC) http://www.dekyo.or.jp/
 - Japan Cable Laboratories (JLABS)http://www.jlabs.or.jp/
 - Japan Approval Institute for Telecommunications Equipment (JATE) http://www.jate.or.jp/
- Reach for Local Governments and Communities
 - The Association for Promotion of Public Local Information and Communication (APPLIC) http://www.applic.or.jp/
- Vendors Associations
 - Communications and Information network Association of Japan
 (CJAJ) http://www.ciaj.or.jp/

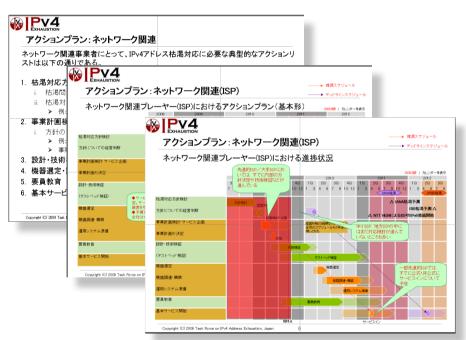
Working Groups within the TF

WG	In charge of	lead	members
Publicity	Assistance for events/conferences of member associations, Regular press conferences Planning of outreach	JPNIC	IAJapan、Telesa, JAIPA、v6PC
Education and Testbed	Education programs, negotiation with certification providers, planning the testbed	v6PC	JPNIC、JATE、JAIPA、 JCTA/JCL、JANOG、 jus、WIDE、DISTIX
Action planning support	Supporting the action planning by every stakeholder	v6PC	IAJapan, Telesa, JAIPA、JPNIC
Applications	Enlightening the Slers,	v6PC	JUS, JISA
Access Network	Negotiation with Access Network providers	JAIPA	TBD
Ready Logo	Planning IPv6 Ready Logo for ISPs and Web sites	JATE	v6PC
Secretariat		v6PC	JPNIC



Want to know what the exhaustion is? Consult http://kokatsu.jp/ for information

Milestones, survey result, FAQs, etc...





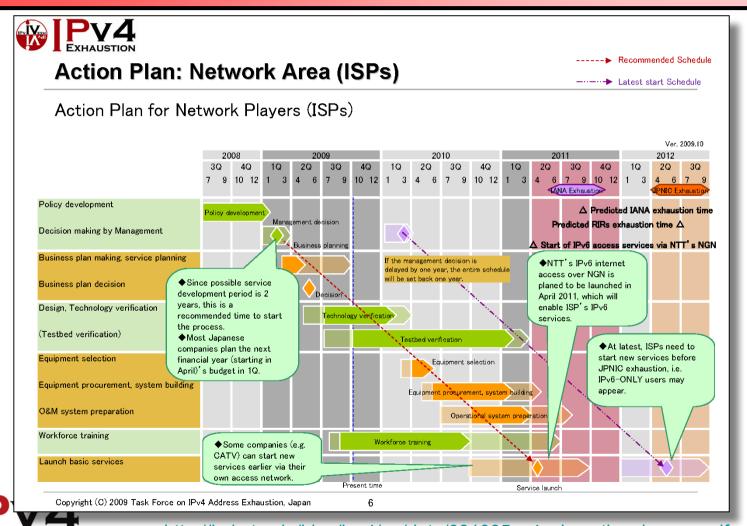


http://kokatsu.jp/



Need help to plan the preparation?

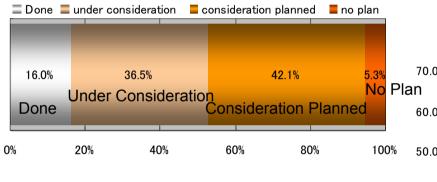
"Action Plan and Milestone" for your reference



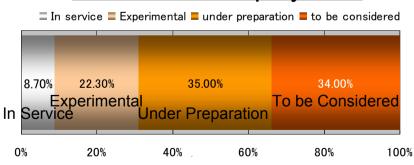
Progress? Or Problem?

Survey to identify "To Whom" "What" and "How"

consideration for countermeasure

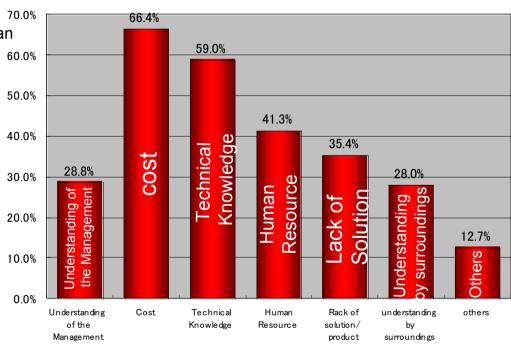


IPv6 service deployment





What is the problem for deploying the countermeasure



Excerpt from 1st survey result in March 2009.

2nd is already done and to be analyzed

Let them know and try

- Let them know they need to prepare for it!
 - Approaching communities of the other enablers of the Internet Services
 - Conferences of embedded devices, Open Source Developers Community, etc.
- Let them try their IPv6 products and services!
 - Testbed is prepared and already available for those who suffer from the lack of IPv6 environment



Display your readiness!

Put on "IPv6 Enabled Logo" for your Web and Network

- Allow IPv6-ready ISPs and Web sites to "differentiate from others"
 - Apply and extend the strategy of "IPv6 Ready Logo" for equipments to services like ISPs and Web sites
- Had domestic and Intra-TF discussion, then synchronize it to "IPv6 Embedded Program" of IPv6 Forum – launched in June 2009
 - Why don't you get the logo at:
 - http://www.ipv6forum.com/ipv6_enabled/ipv6_enable.php !!

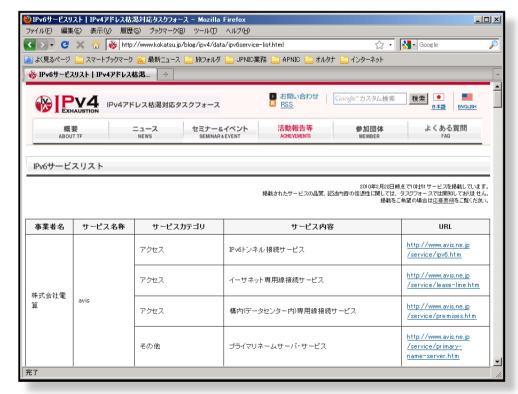






IPv6 services available for users?

- "IPv6 Services List" recently launched
 - A provider can put the name of its IPv6 service on the list





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Thank you very much ありがとうございました

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- http://kokatsu.jp/en/ for English version
- E-mail us to
 - Info@kokatsu.jp for any inquiries on any of your interests

