JP Economy Update

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IPv6 service in Japan

- Many ISPs has started their IPv6 service.
  - Not only for enterprises but for *consumers*.
    - As of July 2011, 35% of FTTH users in Japan can buy IPv6 service.
    - Many ISPs offer their IPv6 service with no additional fee.
  - One mobile carrier, NTT Docomo started IPv6 service in their LTE/3G network.
    - Their LTE users can access to IPv6 Internet.

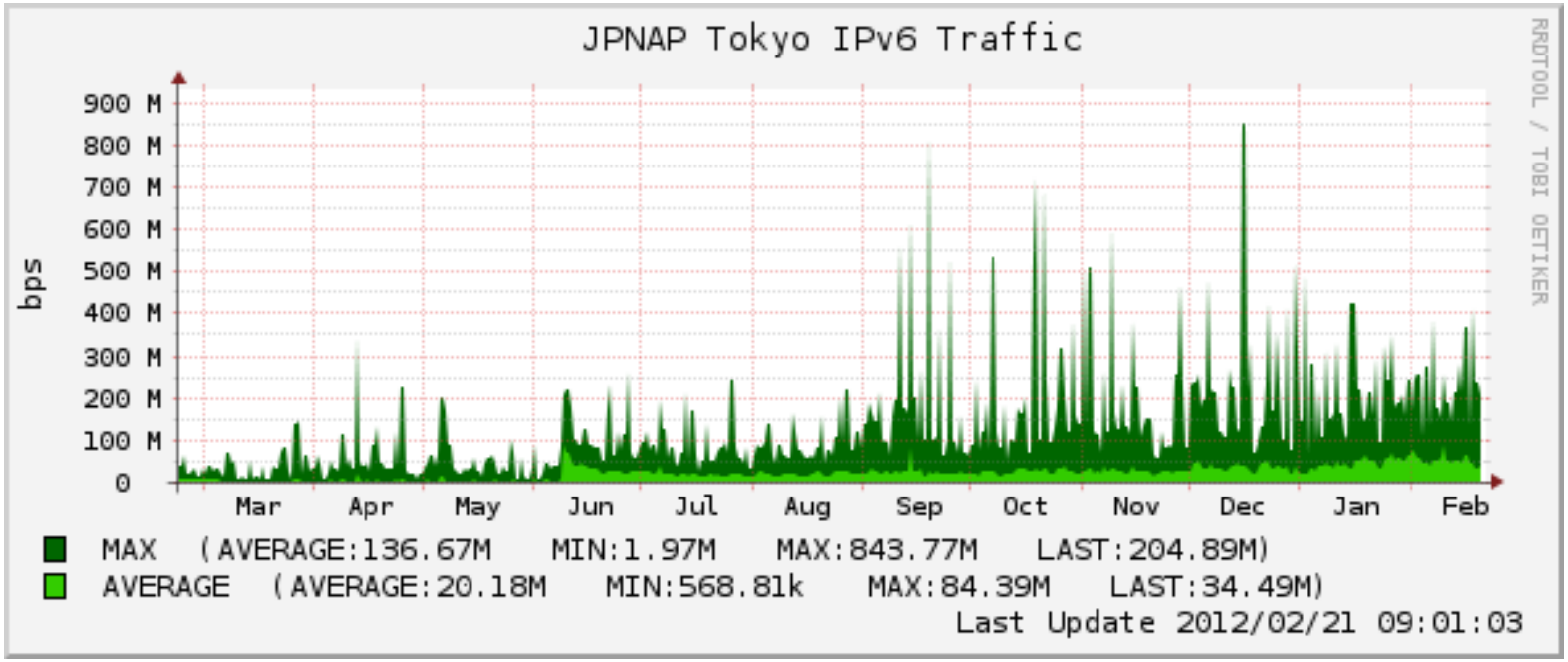
IPv6 service in Japan

ISP Name	Access Technology for IPv6	Status	URL	Service Type
Densan Co, Ltd.	Tunnel, Leased line	Commercial	http://www.avis.ne.jp/option/ipv6/	Residential, Enterprise
IX-layers, Inc.		Commercial	http://www.ix-layers.com/services/	Transit
NTT Communications	FTTx, Tunnel, Leased line	Commercial	http://www.ocn.ne.jp/ipv6/service/index.html	Residential, Enterprise, Transit
Internet Initiative Japan	FTTx, Tunnel, Leased line	Commercial	http://www.iij.ad.jp/svcsol/service/internet/index.html, etc.	Residential, Enterprise, Transit
Softbank Telecom Corporation	Leased Line, Tunnel	Commercial	http://tm.softbank.jp/business/internet/ipv6dual/index.html, etc	Enterprise
Softbank BB Corporation	Tunnel (with 6rd on FTTx users)	Commercial	https://ybb.softbank.jp/ipv6/	Residential
KDDI Corporation	FTTx	Commercial	http://www.auhikari.jp/news/110418.html	Residential
NTT Docomo	Mobile (LTE)	Commercial	http://www.nttdocomo.co.jp/service/data/xi/provider/index.html	Residential, Enterprise
ISPs using NTT East/West Internet accessplatform	FTTx	Commercial	http://flets.com/next/ipv6_pppoe/isp.html, http://flets.com/next/ipv6_ipoe/isp.html, http://flets-w.com/isp/ipv6	Residential
DREAM TRAIN INTERNET INC.	FTTx, Tunnel	Commercial	http://dream.jp/ftth/option/ipv6/index.html	Residential
N-plus Internet Services	FTTx, Tunnel	Commercial	http://www.nplus-net.jp/service/network/IPv6-next.html	Residential, Enterprise
SANNET INTERNET SERVICE	FTTx, DSL(Tunnel), Mobile(Dialup)	Commercial	http://www.sannet.ne.jp/ipv6/ipv6_pppoe.html	Residential, Enterprise

This table created from information below (as of Jan. 2012):

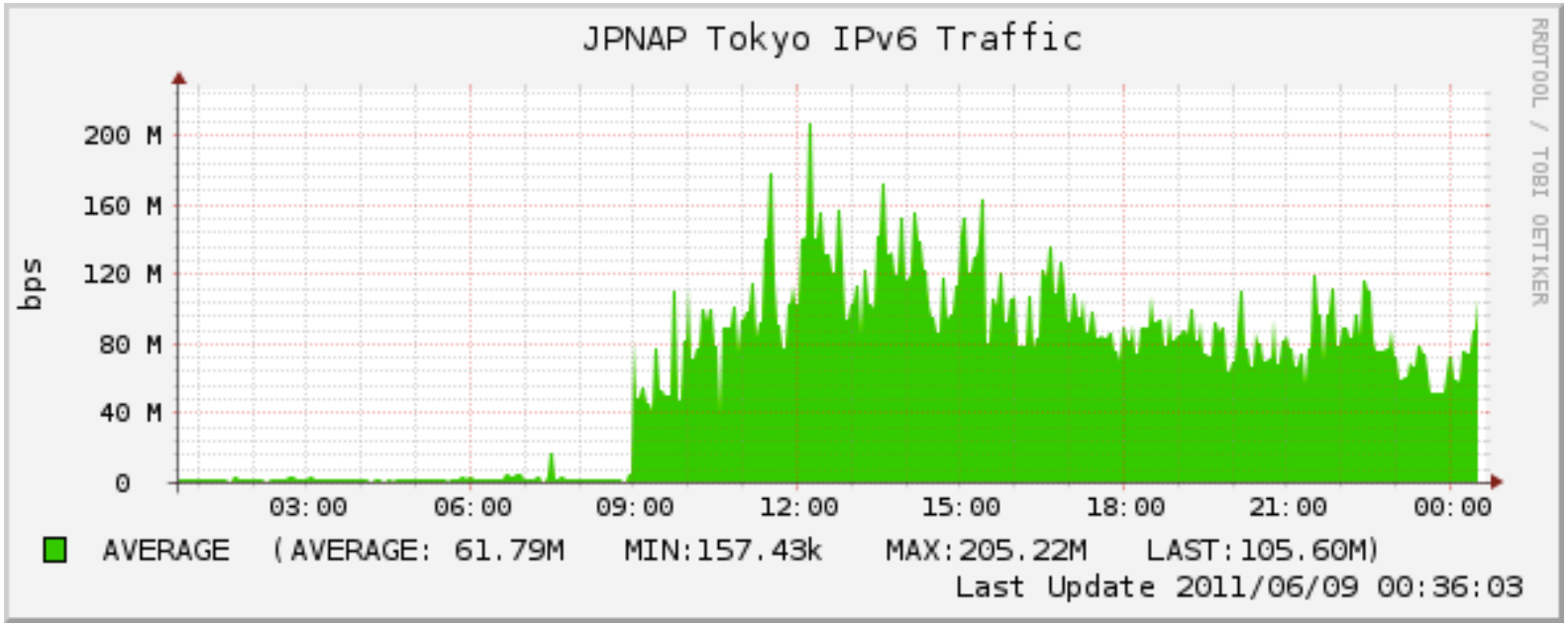
1. IPv6 service list in Japan by Task Force on IPv4 AddressExhaustion, Japan.
http://www.kokatsu.jp/blog/ipv4/data/ipv6service-list.html
2. IPv6 enabled ISP
http://www.ipv6forum.com/ipv6_enabled/isp/approval_list.php?start=0
3. Presentation material at Internet Week 2011 by Ruri Hiromi about IPv6 residential service in Japan.
(not published now, but will be in a few month)

IPv6 traffic in IX (JPNAP)



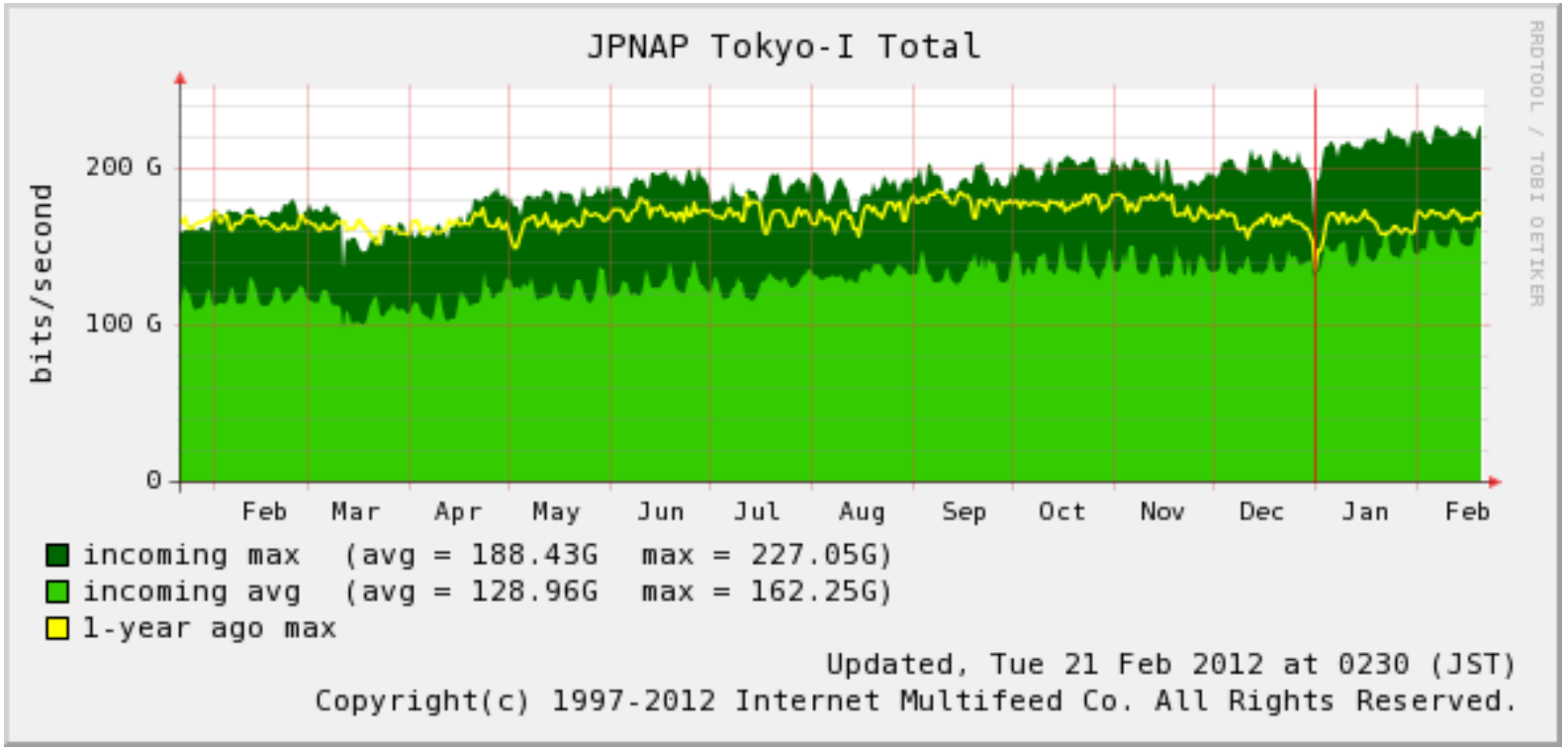
IPv6 Traffic in JPNAP, one of major IXes in Japan since last World IPv6 Day.

IPv6 traffic in IX (JPNAP)



IPv6 Traffic in JPNAP, one of major IXes in Japan on last World IPv6 Day (8th June 2011 in JST).

IPv6 traffic in IX (JPNAP)



Total IP Traffic in JPNAP recent 1 year.

‘IPv6 deployment issues’ material

IPv6 fix working group in IPv6 Promotion Council Japan created ‘IPv6 deployment issues’ document

- http://www.v6pc.jp/jp/wg/coexistenceWG/v6fix-swg.phtml (in Japanese)

Translated version:

- http://wiki.nttv6.net/cgi-bin/wiki.cgi

Please give us comments and suggestions on this document !!

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ToC of 'IPv6 fix' document 2/2

Next Step

- Promote IPv6 more and more
  - Some ISPs enable their IPv6 service without notification to users, but some cannot.
    - Depend on access environment