Asia Pacific IPv6 Deployment and Trends

8th Australian IPv6 Summit

18/10/2012

Michael Biber Acting Chair of APIPv6TF



Introduction

APIPv6TF

- Established in 2003 by initiatives of IPv6 leaders in the region
- To support IPv6 deployment in the region APNIC is providing secretariat support since 2010
 - To increase stability in its operation
 - Regular meetings twice in a year in conjunction with APNIC and APRICOT conferences
 - Remote participation tools are available

IPv6 deployment Global

 According to labs.apnic.net IPv6 monitoring data (http://labs.apnic.net/ipv6-measurement/):

Group	IPv6 Preferred (%)	IPv6 Capable (%)
OECD	0.3	4.6

- Still long way to go from actual deployment point of view
- But IPv6 deployment is picking up its pace

Allocation of the last five /8s (February 3rd, 2011)



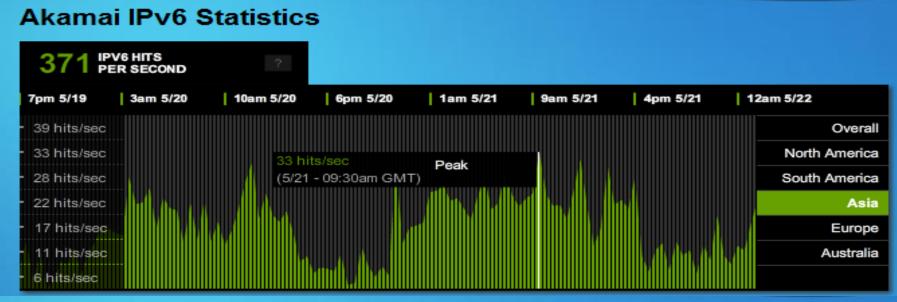
http://www.nro.net/media-center/video-archive-3-february-2011

IPv6 in the World?

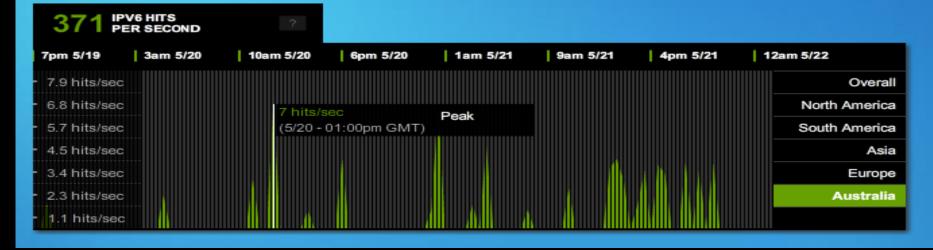


Source: http://www.akamai.com/ipv6

IPv6 in Asia Pacific?



Akamai IPv6 Statistics



IPv6 deployment cases Global

US

- Comcast
 - IPv6 production deployment in Nov 2011
 - IPv6 home networking pilot market launch begins in April 2012
- _T-Mobile USA
 - IPv6 is deployed across entire T-Mobile US network
 - Via Samsung Nexus S and Samsung Galaxy Nexsus

France

- France Telecom Orange
 - IPv6 VPN services since 2009
 - Field trial started in 2011 + plan to enable commercial IPv6 services in 2012

IPv6 deployment cases AP region

- Australia
 - Internode provides IPv6 commercial services
 - Telstra rolling out to 'commercial/government'
 - _ AGIMO Federal Government initiatives
- China
 - _ CERNET implemented native IPv6 network
- Japan
 - _ KDDI au Onenet over IPv6
 - _ NTT DoCoMo provides IPv6 services over LTE

Supporting IPv6 deployment in the AP Region

56 Regional Economies (APNIC LIST)

AFGHANISTAN		
AMERICAN SAMOA		
AUSTRALIA		
BANGLADESH		
BRUNEI DARUSSALAM		
BHUTAN		
COCOS AND KEELING ISLANDS		
COOK ISLANDS		
CHINA		
CHRISTMAS ISLAND		
FIJI		
MICRONESIA (FEDERATED STATES OF)		
GUAM		
HONG KONG SPECIAL ADMINISTRATIVE REGION OF CHINA		

Supporting IPv6 deployment in the AP region

APIPv6TF 6 monthly Economy Update:
- efforts to increase IPv6 deployment
in the Asia Pacific region, e.g.
February 2012 New Delhi, August
2012 Phnom Penh;

- Pakistan
- _ Australia
- China
- India
- _ Singapore
- Taiwan
- _ Malaysia
- _ Japan
- New Zealand



Supporting IPv6 deployment in the AP region

- APIPv6TF provides forums to member economies to exchange IPv6 deployment stories
 - Updates from 8 economies
 - Lots of support from the government sector

Meeting Space and Information Dissemination for the AP Region – e.g.

Executive Summary: The purpose of this planning guide is to provide United States (U.S.) Federal Government agency leaders with practical and actionable guidance on how to successfully integrate Internet Protocol version 6 (IPv6) throughout their enterprise. This guide has been updated from the original guide published in 2009 to aid in understanding the Federal Government's Internet Protocol version 6 (IPv6) history, vision, current goals, and deadlines. Based on the information found in this document, the Agency Chief Information Officer (CIO), IPv6 Transition Managers, Chief Enterprise Architects, and Chief Acquisition Officers (CAO) can assess their own agency's current IPv6 implementation progress and develop an agency-specific plan with detailed milestones to achieve the defined IPv6 goals for FY2012 and FY2014.

Download the USGv6Roadmap: USGv6Roadmap.pdf on IPv6forum web site: www.ipv6forum.org

Dr. Peter Tseronis Chairperson of the Federal IPv6 Task Force Chief Technology Officer, U.S. Department of Energy

Way forward

- Next APIPv6TF meeting
 - February 2013 in Singapore
 - Join us and share your stories
- Life after World IPv6 Launch
 - -6th June 2013?
 - Further initiatives for network users to deploy IPv6 and not to turn it off
 - http://www.worldipv6launch.org/
- 9th Australian IPv6 Summit

APIPv6TF Mailing List

Open to all, subscribe at:

http://www.ap-ipv6tf.org/join-us

More information at http://www.ap-ipv6tf.org/

Thank you!

Michael Biber
Acting Chair
Asia Pacific IPv6 Task Force

mbiber@ipv6forum.com.au

