

IPv6 Deployment and Trend

31/05/2012

IPv6 – Technology and Application
Hanoi, Vietnam

Michael Biber Acting Chair of APIv6TF

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
G20	0.3	4.8
BRICS	0.2	7.9
APEC	0.2	4.8

- 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>

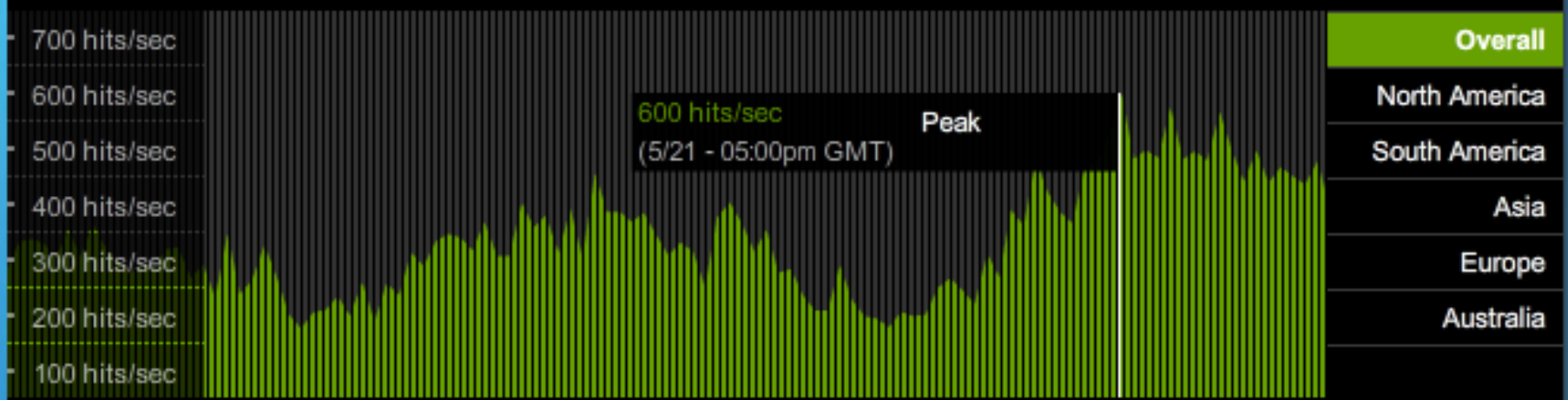
IPv6 in the World?

Akamai IPv6 Statistics

371 IPV6 HITS
PER SECOND

?

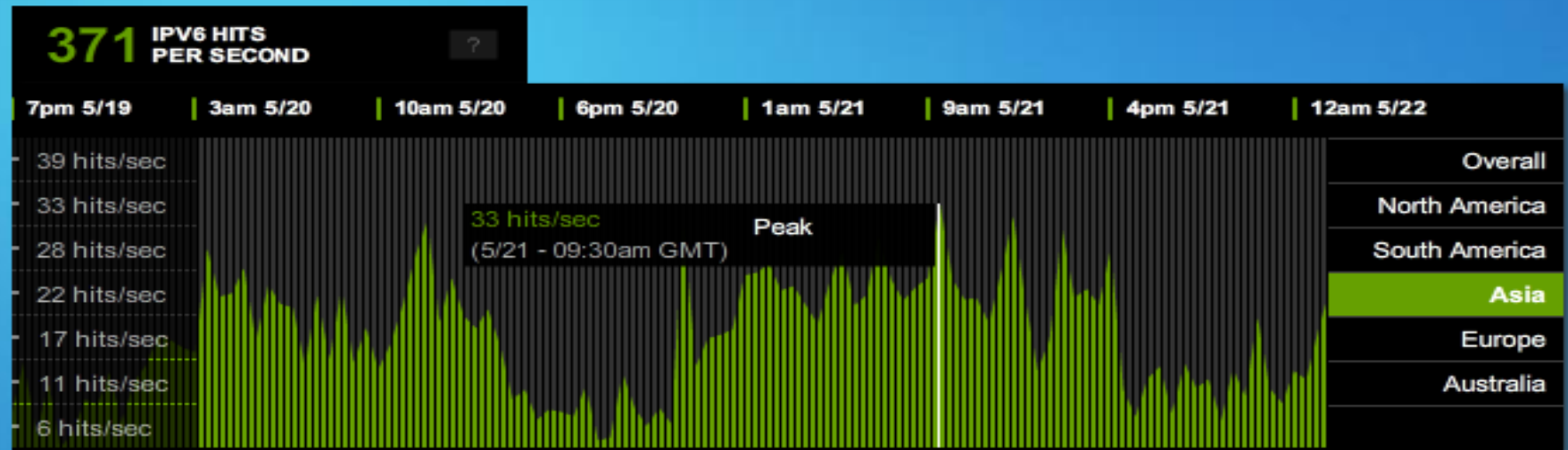
7pm 5/19 | 3am 5/20 | 10am 5/20 | 6pm 5/20 | 1am 5/21 | 9am 5/21 | 4pm 5/21 | 12am 5/22



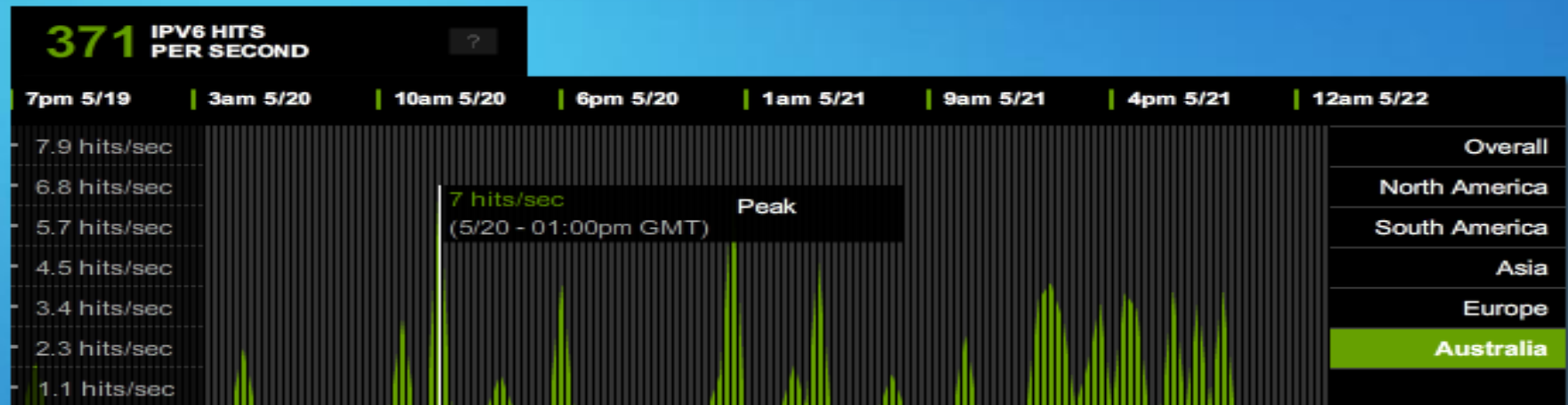
Source: <http://www.akamai.com/ipv6>

IPv6 in Asia Pacific?

Akamai IPv6 Statistics



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 Nexus
- 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'
- 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

- APIIPv6TF provides forums to member economies to exchange IPv6 deployment stories
 - Meeting in India, Feb 2012 in conjunction with APRICOT 2012 and APNIC32
 - 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 APIIPv6TF meeting
 - 29/08/2012 in Phnom Penh, Cambodia
 - Join us and share your stories from Vietnam
- World IPv6 Launch
 - 6th June 2012
 - Initiative from network operators to deploy IPv6 and not to turn it off
 - <http://www.worldipv6launch.org/>

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