

# KRNIC UPDATE

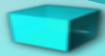
AUG 28, 2012

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**KRNIC Resource Status**



**IPv6 Related Activities**

# KRNIC Resource Status

**# of IPv4s**

**112 M**

**# of IPv6s**

**5,223 × /32**

**# of ASNs**

**1,015**

**# of ISPs**

**122**

# IPv6 Related Activities

- 1 2012 KOREA IPv6 Day
- 2 Education and Consulting
- 3 Mutual Cooperation
- 4 IPv6 Exchange Point Operation
- 5 IPv6 Deployment Index

Korea IPv6 Day is an event to promote IPv6 in Korea, and to share IPv6 experience with others

## Overview

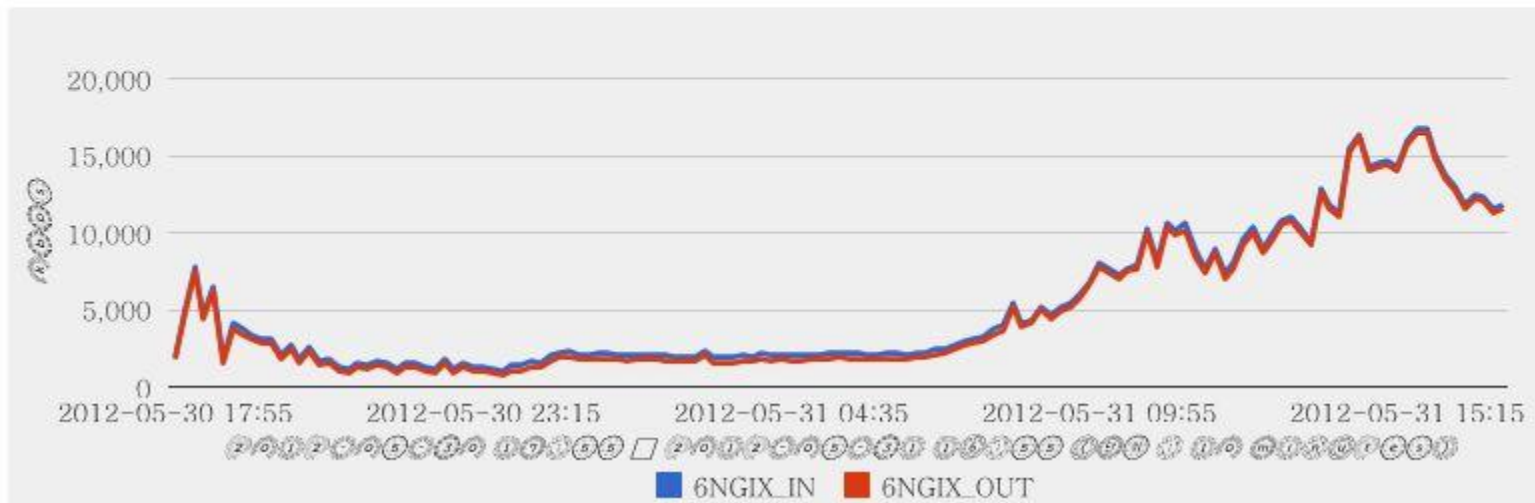
- Time : May 31, 2012
- Participants : ISPs, Portals, Contents Providers, Manufactures(22 org. participated)

	Participation Contents
ISP	o Provide partial IPv6 network and IPv6 users
Contents Provider	o IPv6 accessible contents
Manufacture	o IPv6 ready equipment

# 2012 Korea IPv6 Day

## IPv6 Traffic

> 6NGIX



## Participating Site List

### > Service Provider(Portals, CP, etc.)

Web site	DNS Setting (AAAA)	IPv6 Connection	IPv4 Connection
www.daum.net	ok	ok	ok
www.naver.com	ok	ok	ok
www.vsix.kr	ok	ok	ok
www.kisa.or.kr	ok	ok	ok
www.gnj.kr	ok	ok	ok
www.newsen.com	ok	ok	ok
ydfc.com	ok	ok	ok
aniframe.com	ok	ok	ok



- Provided different levels of IPv6 education



So far we educated 2,500 executives and staffs.(from 2008)



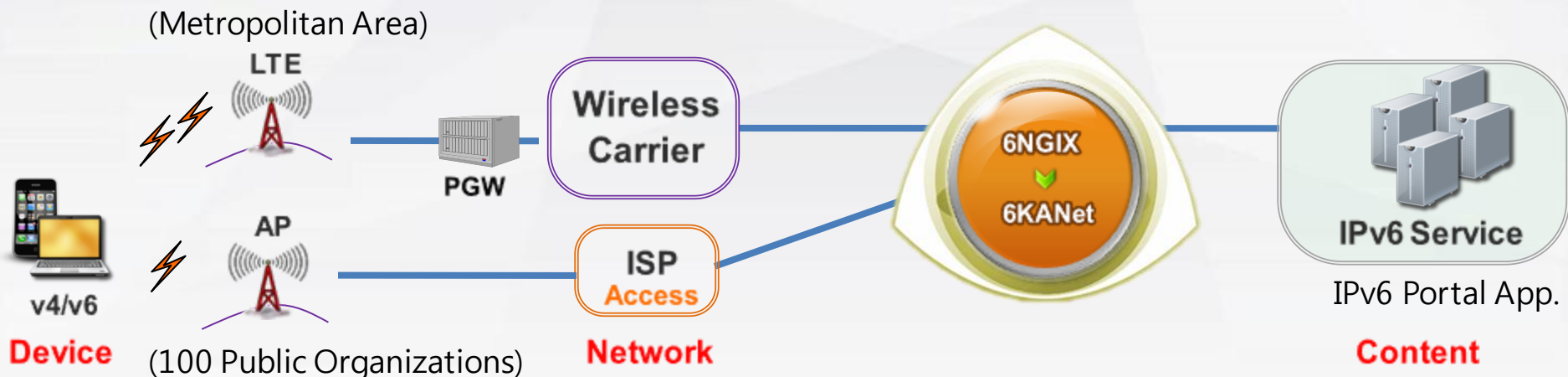
We provide consulting service since 2011.

If requested, experts visited the company and analyzed their network.

We provided detailed guideline to change their network to IPv4/IPv6 network.

Last year, we consulted 10 organizations.

# Collaboration project with SKT



Set up IPv6 Infrastructure on LTE and WiFi, we will select particular region, not the whole country.

We will test IPv6 capable device and IPv6 contents

## Expected result:

IPv6 contents can be accessed through LTE with mobile device.

## ● **Setting IPv6 Infrastructure on one of web hosting providers in Korea**

- We are asking the company to set up IPv6 service facilities
- We are asking more than 50 IPv6 accessible web pages and DNS settings
- We are asking for a guideline to share their experiences with other web hosting companies

### **Expected Result:**

- We will have IPv6 accessible web pages, and facility
- IPv6 experienced staffs will be trained
- a guideline for other web hosting will be published

- Hurricane Electric(US), BT(UK), HINET(TW), KT, SKT, LGU+ etc.

(\* 6NGIX : IPv6 Next Generation Internet eXchange)

- 30 organizations are connected

(\* 6KANET : IPv6 Korea Advanced NETwork)

6NGIX  
국내: 23곳  
국외: 3곳

6KANET

미국 (Hurricane Electric)  
영국 (BT)  
대만 (HiNET)  
삼성 SDS  
KREONET  
싸이버원  
SK 텔레콤  
LGU+  
드림라인  
KOREN  
지앤제이  
SK 브로드밴드  
나우콤  
LG CNS  
C&M  
엔에이치엔 비즈니스 플랫폼  
솔넷시스템  
티브로드 홀딩스  
현대 에이치씨엔  
넥스지  
세종텔레콤  
CD NETWORKS  
CMB 대전방송  
CMB 한강케이بل 타이브이  
한국무선정보통신  
KINX

	Readiness Index	Usage Index
ISP	<p>D : Rate of IPv6 capable link between ISP-Subscriber</p> $F : R_{ISP} = \frac{\sum \# \text{ of IPv6 capable Subscriber}(i)}{\sum \# \text{ of Subscriber}(i)}$ <ul style="list-style-type: none"> <li>• Subscriber   Organization   Hi-speed Internet Subscriber</li> <li>• If it's hard to calculate No. of subscriber, we could get the value by researching edge router of ISP.</li> </ul>	<p>D : Rate of IPv6 enabled link between ISP-Subscriber</p> $F : U_{ISP(i)} = \frac{\sum \# \text{ of IPv6 enabled Subscriber}(i)}{\sum \# \text{ of Subscriber}(i)}$ <p>* Subscriber   Organization   Hi-speed Internet Subscriber</p>
CSP	<p>D : Rate of IPv6 capable internet services</p> $F : R_{CSP} = N/A$	<p>D : Rate of IPv6 enabled internet services</p> $F : U_{CSP} = \frac{\# \text{ of IPv6 enabled Domain}}{\# \text{ of Domain}}$
USER	<p>D : Rate of IPv6 capable terminals among internet terminals</p> $F : R_{USER} = \frac{\# \text{ of Terminals IPv6 capable OS installed}}{\# \text{ of internet terminals}}$	<p>D : Rate of IPv6 enabled terminal with IPv6 address</p> $F : U_{USER} = \frac{\# \text{ of IPv6 address installed terminals}}{\# \text{ of internet terminals}}$



# Thank you

