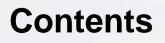


# IPv6 Experiences in Korea

June 1, 2012

Chanki Park(ckp@kisa.or.kr)

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#### Introduction of KISA

Difficulties

Our Goal

What we have done

What we are doing

What we plan to do





## **Introduction of KISA**

Korea Internet & Security Agency is a government agency of KCC (Korea Communications Commission)

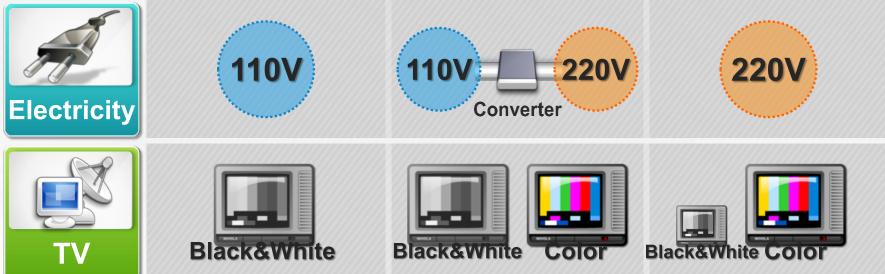
More than 500 employees

Main Activities:

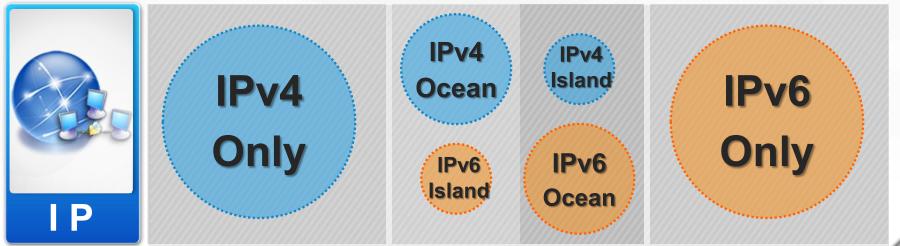
- Manages .kr domain name and IP addresses
- Prevention and response to cyber security incidents
- Personal information protection
- Promotion of healthy cyber culture
- Promotion of broadcasting and communications services

## Difficulties

Local

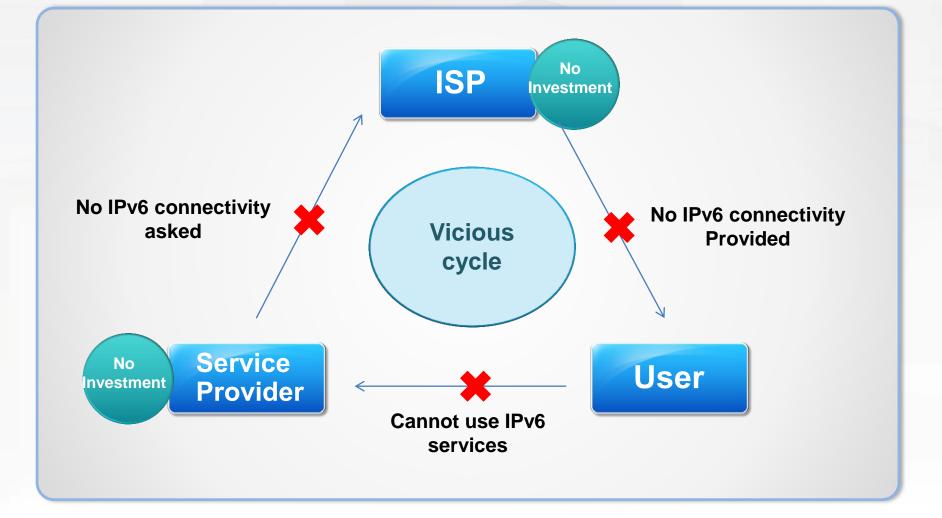


#### International



## Difficulties

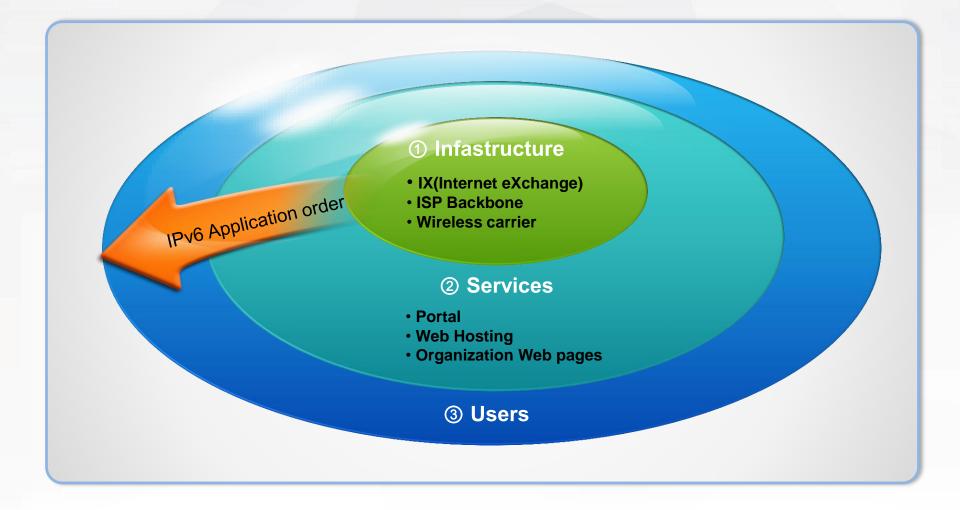




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## Our Goal

## **KISA**



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## What we have done...

## **IPv6 Plans in Korea**









## **IPv6 Promotion Meetings**



#### IPv6 Strategy Council

- Member : Executive directors of ISPs, Portals, wireless carriers,

government agencies, and high level government officers.

- meets around 3 times a year

#### IPv6 working meetings

- Member : Working staffs of ISPs, Portals, wireless carriers,

government agencies, and government officers.

- meets around 6 times a year and if needed

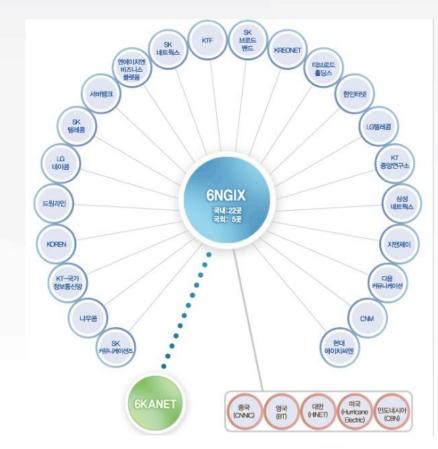
## **IPv6 Internet Exchange**

- 30 organizations are connected

#### 

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

#### 6KANET provides IPv6 connectivity to local organizations



KISA

## **IPv6 Pilot Projects**

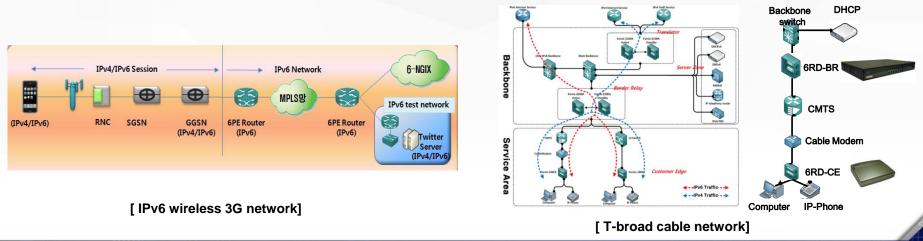
## **KISA**

#### Phase I : Trial services(2004 – 2007)

- developed small size routers and VoIPv6 switched
- aided a few public organizations, schools, research organizations building IPv6 service network
- All together 26 various trial projects were run

#### Phase II : Trial services and Infrastructure(2008 – 2011)

- Built IPv6 test network with commercial ISP, KT
- Tried IPv6 wireless 3G network with commercial wireless carrier, SKT
- Built IPv6 subscriber network with commercial cable network carrier, Hyundai HCN(dual stack) and T-broad(6RD)



## **IPv6 Educations**

#### Provided different levels of IPv6 education



So far we educated 2,500 executives and staffs.

## **IPv6 Consulting**



We provide consulting service since 2011.

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

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

Last year, we consulted 10 organizations.

## **2011 World IPv6 Day Participation**

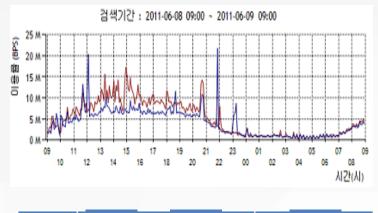
12 major ISPs, portals, organization participated for the event

#### **NAVER** -걱정되시죠? ΝΔΤΕ 강남과 자연을 누리세요. 용인 성복자이 Pase.o.o Page .0.0 2127 2 Boz 405 • 2 45 67 · 물가입기 🍐 볼 수전 사이트 · 비 다른 우가 기능 가져오기 · LGU 대한민국 어디서나 편리한 프리미엄 무선인터넷 공간! alleh WiFi zone ali

[World IPv6 Day participated webs]

\* KT, SKB, LGU+, NAVER, DAUM, SK Communications, Dreamline, G&J, KISA, and etc.

#### [IPv6 Traffics]



**KISA** 

кт	MAX	MIN	AVG
	38.9M	730.3K	9.2M

\* 6NGIX traffic increased about 10 times compare to normal day.



## What we are doing...

## **Collaboration project with SKT**





Set up IPv6 Infrastructure on LTE and WiFi, we will select particular region,

not the whole country.

We will develop IPv6 capable device and IPv6 contents

#### **Expected result:**

IPv6 contents can be accessed through LTE with mobile device.

## Collaboration project with web hosting company KISA

#### 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 produced
- a guideline for other web hosting will be published

## 2012 Korea IPv6 Day

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 participated)

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



## What we plan to do...

## Draft Plan for 2013

Main focus will be getting rid of barriers deploying IPv6

Operating 6NGIX and 6KANET, IPv6 Education, IPv6 Consulting

#### Getting rid of barriers

- developing S/W for old network equipment that are still used
- developing security S/W that can be used by public organizations
- aiding CDN provider to build IPv6 network

#### Collaboration Project

- May be with web hosting companies

Three major ISPs plan to deploy IPv6 on their IX and backbone early 2013.

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**KISA** 

# Thank you



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