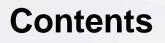


IPv6 Experiences in Korea

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)

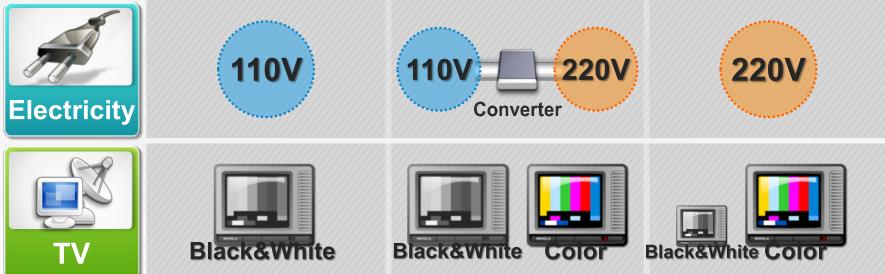
More than 500 employees

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

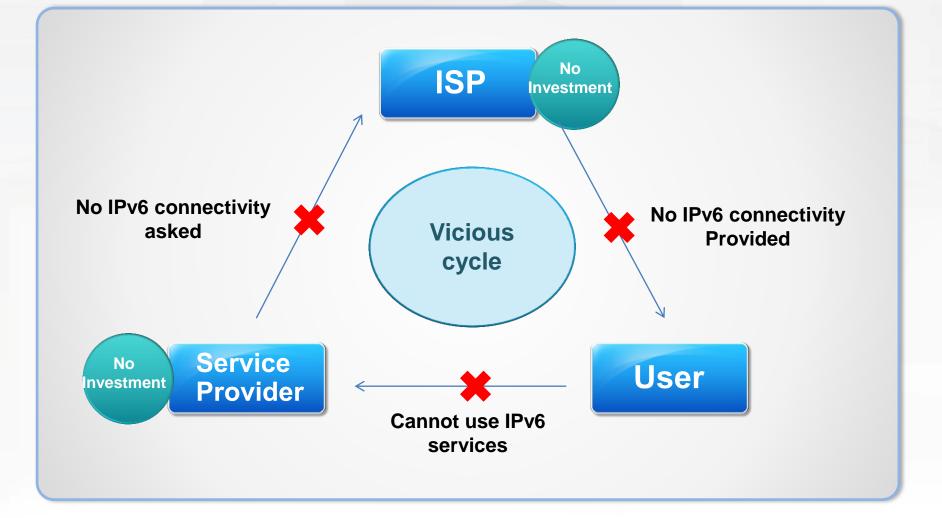


International



Difficulties

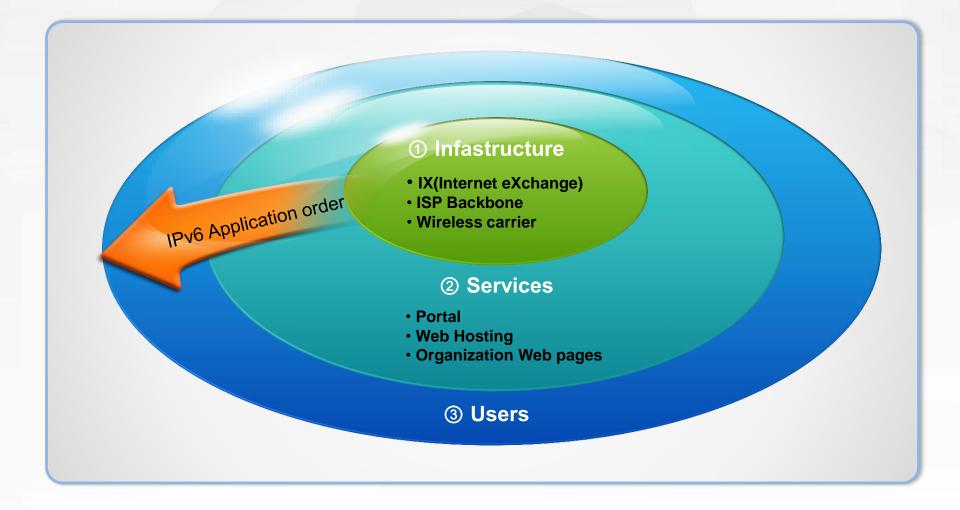




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Our Goal

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.

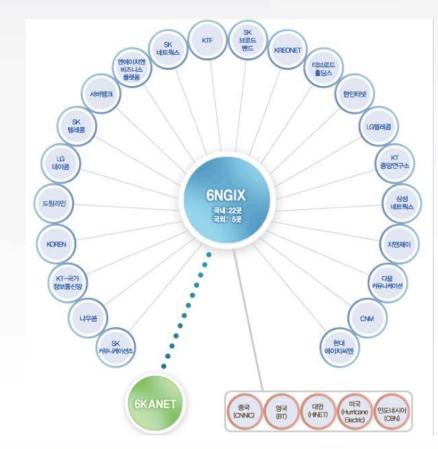
- meets around 6 times a year and if needed

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

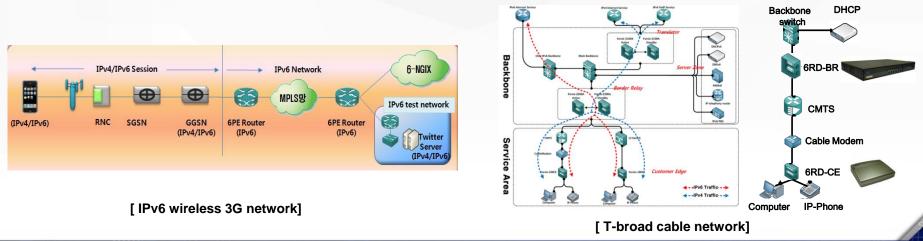
KISA

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

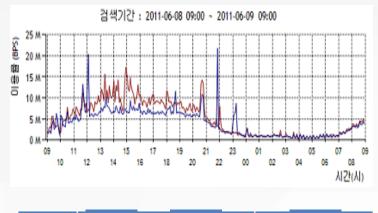
12 major ISPs, portals, organization participated for the event

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