

World IPv6 Day @한국(kr)

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Asia-Pacific IPv6 Task Force meeting

Joonhyung Lim, Associate Research Fellow

Jhlim@kisa.or.kr

IP-based industry team, KISA



KISA
한국인터넷진흥원

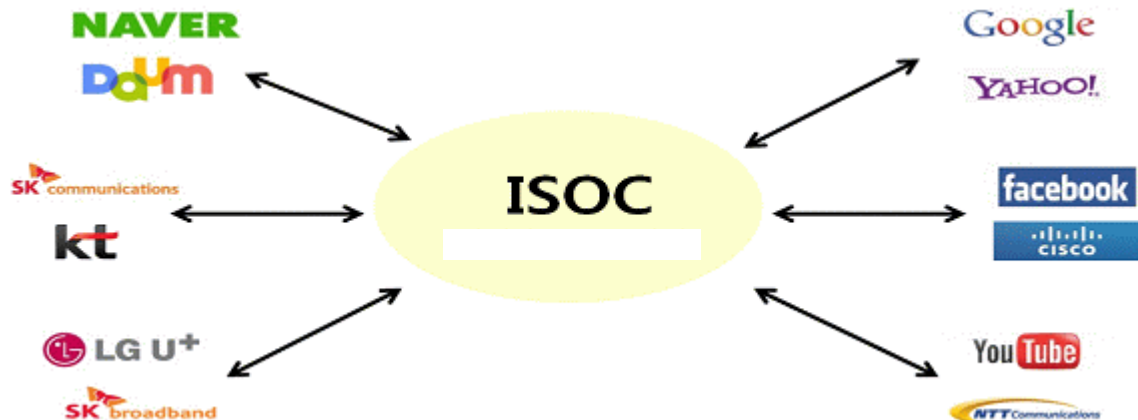


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D-130 Preparation to make people knows about it

- KCC(Korea Communication Commissions) & KISA(Korea Internet and Security Agency) made a decision to alert this event, and to raise participants, domestically
 - By promoting a collaboration between government and private sector
 - By supporting IPv6 network infrastructure
- KCC & KISA made a plan that was includes:
 - Promotion strategy
 - Raising participants
 - Gathering information and sharing

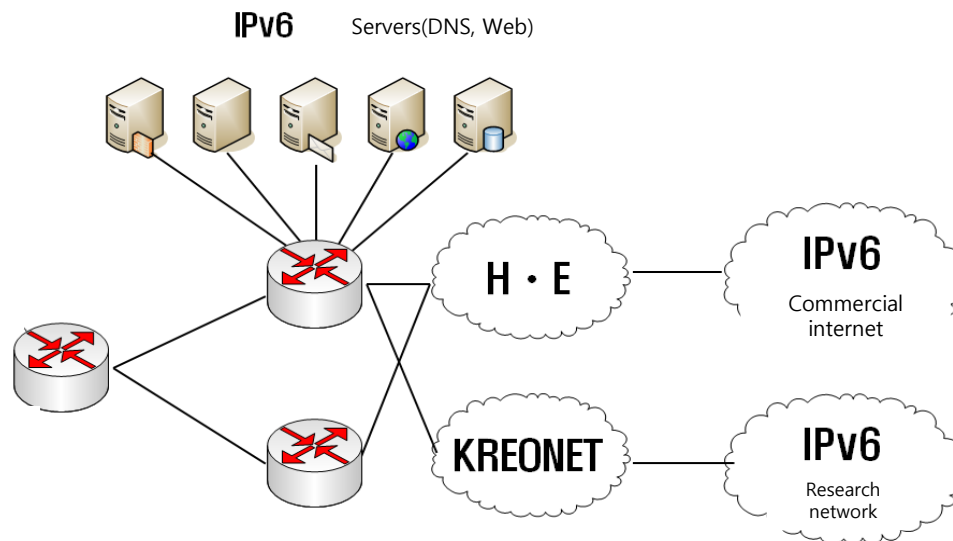


D-60 Starting a Working Group

- 'Working group' was formed among 6 major ICT company(ISPs/CPs), KISA, and KCC
 - Participants : KT, SK Broadband, LG U+, NHN, Daum, SK communications
 - Goal : On 8th of June, ISPs/CPs turn IPv6 on their website and network.
 - Role
 - KCC & KISA : Providing a information about event, and making thing clear if there is question from ISPs & CPs
 - ISPs & CPs : Building up IPv6 network and contents, and submit application as a World IPv6 Day participant.
- Making things happen was not easy, but we've done!
 - **D-60** 1st meeting : chaos
 - Questioned to what 'World IPv6 Day' is
 - Questioned to why we have to participate in event
 - **D-30** 2nd meeting : acceptance
 - Agreed to start building IPv6 network & service
 - Agreed to connect to 6NGIX
 - **D-10** 3rd meeting : driving
 - Shared to network test result
 - Shared to broken user problem
 - **D+7** 4th meeting : celebration
 - No sign of problem
 - Continuing to remain IPv6 website
 - Agreed to publish a "World IPv6 Day @한국(kr) Whitepaper"
 - Agreed to think about next domestic event, end of this year.

D-50 Upgrading a IPv6 network

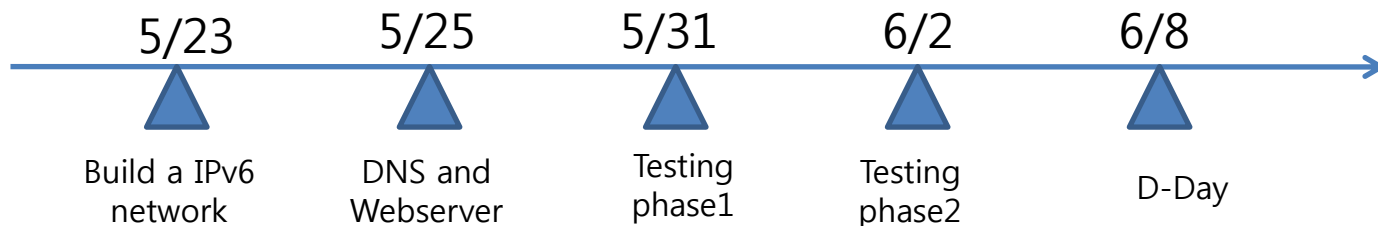
- We upgrade 6NGIX to provide a IPv6 connectivity with reliability and proper speed, to domestic participants
 - Multiple internet line with High speed
 - BGP interconnection with HE (through tunnel)
 - Moving from IDC to KISA Internet center




D-40 Building up IPv6 service

- Each participant was starting their job
 - Building a network and service
 - Making a connection to 6NGIX
 - Testing

CP	Domain name	ISP	Domain name
NAVER (www.naver.com)	www.v6naver.com www.naver.com(only June 8 th)	KT	www.ktipv6.com
DAUM (www.daum.net)	ipv6.daum.net www.daum.net(only June 8 th)	SKB	www.skbiip.com
NATE (www.cyworld.com)	ipv6.cyworld.com	LGU+	www.lguplus.kr



D-30 Preparing a celebration workshop

- KISA in conjunction with the Korea IPv6 Forum to commemorate a 'World IPv6 Day' were preparing a celebration workshop.
- 
- It includes:
 - How to build IPv6 presentation from 6 major participant
 - Hands-on test event to connect World IPv6 Day participant's website
 - Technical seminar with IPv6 experts from research institute, vendor, ISP, CP
 - KISA supports seminar room, and IPv6-only Wi-Fi network.

D-8 IPv6 Promotion council meeting

- It consists of 20 directors from government and private sector, and is handling, sharing several issues shown below;
 - Sharing a IPv6 progress in each sector
 - Sharing a recent trend and government's policy
 - ...and any other issues needed to discuss about IPv6
- At that day, we encourage member to participate in event, and talking about response plan of each company regarding to IPv6 brokenness on Wold IPv6 Day
 - Agreed to publish a press release
 - Agreed to sharing information to customer call center at each company.



D-Day

- Enhance a monitoring system
 - Share an emergency contact-list with 6 participants
 - Real-time network traffic monitoring in KISA internet data center
- World IPv6 Day Celebration Workshop
 - About 100 people from industries, experienced IPv6 website through a Wi-Fi IPv6 native network build at venue.
 - Operators from 6 major ISPs and CPs made a presentation, and shared how they build a IPv6 service.
 - Other technical seminar was performed by IPv6 experts



D-Day

- Media coverage
 - Several domestic media introduced and quoted a increasing of IPv6 traffic, and was covering celebration workshop.



전자신문 2011년 06월 09일 목요일 005면 정보통신

인터넷 시즌2 'IPv6' 진입 아직은 순항

망 연동 글로벌 동시 테스트 성공적

김희석·이수영기자
stone201@etnews.co.kr

인터넷 시즌2를 준비하기 위한 IPv6 글로벌 테스트가 8일 일제히 진행됐다.

일부 인터넷 사이트는 접속 지연 우려가 나오기도 했지만, 인터넷 표준화 기구인 인터넷사우더티(IETF) 주최로 열린 망 연동 테스트 'World IPv6 Day'에서는 특별한 문제점이 노출되지 않았다.

일준형 한국인터넷진흥원 책임 연구원은 "8일 오전 중 잠시 국내 트래픽이 20MB 정도로 늘어났지만 큰 문제점은 발견되지 않았다"고 설명했다.

"World IPv6 Day"는 현재 인터넷 주소(IPv4)의 신규 할당 중지 후 따라 IPv6망간 인터넷 연결 시 발생하는 문제를 해결하고 이를 공유하기 위한 전 세계적 행사다.

이날 테스트에는 우리나라 ISP 3개사와 네이비어 등을 포함하여 10여개 기업이 참여했고, 구글, 페이스북, 야후, 아마존 같은 주요 인터넷기업과 버라이드, 미국 주요 정부기관도 적극 참여해 눈길을 끌었다.

테스트는 미국 시각으로 8일 0시, 한국 시각으로 오전 9시부터 24시간 동안 진행됐다.

국내에서는 네이비가 눈길을 끌었다. 네이비는 다른 참여업체들이 별도의 테스트 웹사이트를 구

속히 행사에 참여하는 것과 달리, 기존 도메인(www.naver.com)으로 행사에 참여, 실전 테스트를 치렀다.

박병기 네이비 IT서비스사업본부장은 "NHN은 그동안 IPv6 서비스 도입에 주춤해왔다"며 "신규 주소제에서의 서비스를 장 만 더 발전하고, 고객들이 IPv6에서도 원활하게 서비스를 활용할 수 있도록 연방의 준비를 갖추나갈 것"이라고 말했다.

세계 각국에서는 IPv6 주소 확보의 중요성을 강조하는 세미나 및 기관의 공식적인 발표도 이어졌다.

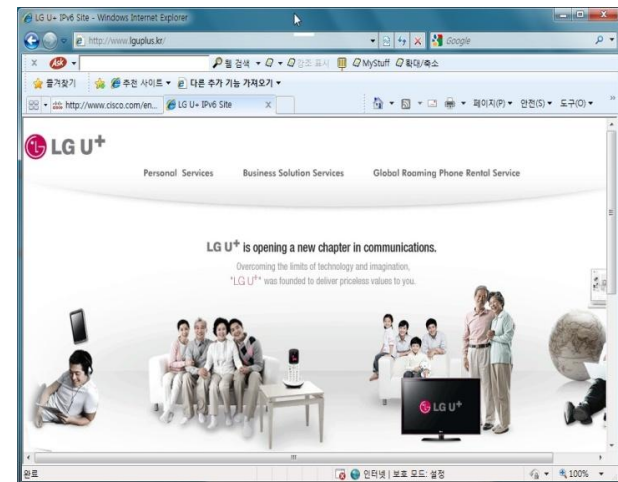
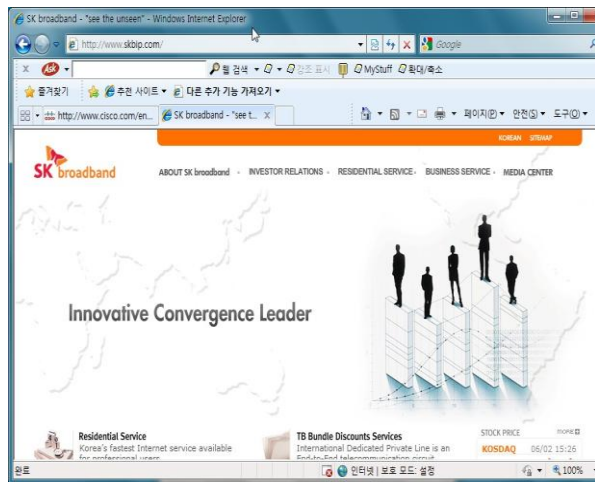
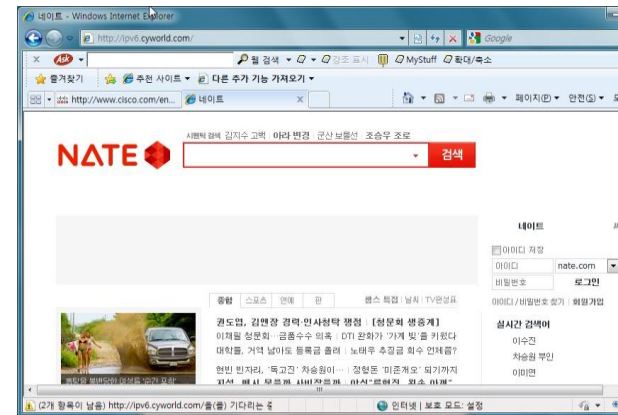
말레이시아 정보통신부장은 공공영역을 중심으로 연말까지 IPv6로 전환을 꾀하고, 내년에는 모든 국가가 IPv6로 인터넷 주소제

제를 옮길 것이라고 발표했다. 라이스 아임 말레이시아 정보통신부 장관은 IPv6 데이 기념행사에 참여해 "IPv6는 말레이시아의 경쟁력을 유지하기 위해서 필수적"이라고 강조했다.

인도 역시 IPv6로의 전환에 적극적으로 나서고 있다. 타타커뮤니케이션, 인디아텔레콤 등 주요 기업들이 IPv6 데이 행사에 참여했다. 또 인도 정부는 IPv4 주소가 인구에 비해 턱없이 부족하기 때문에 IPv6 테스크포스(TFP)를 통해서 빠른 전환에 나설 계획을 밝혔다.

필라에서는 인터넷 서비스 제공업체, 인터넷 기업 등 민간 및 공공, 회계가 참여해 가운데 글로벌 네트워크에서 IPv6 구현, IPv6 데이 사건을 포함한 대규모 세미나가 열렸다.

(Participants' website)



D+60 Currently...

- Draft of our whitepaper have almost done.
- Korean participants' IPv6 websites have been still working.
- End of July, during a "Report from World IPv6 Day" technical plenary session in 81th IETF meeting, ISOC pointed out Korea's important result.



Lessons we learned

- It was not easy, but not that hard
 - Making move forward is not easy when we start a work.
 - After making decision, adoption of IPv6 was very fast.
- Close collaboration among stakeholders are key factor of success
 - Government's support is very effective when it aims to catalyze IPv6 transition
- Top-down process is reasonable if there are many department to collaborate in company.
- There are so many stakeholders rather than we have ever imagined before.
 - ISP, CP, vendor, internet user...
 - External advertisement link providers,
 - developer from partners, customer from one of our customer, mobile application developer, all who need to know about IPv6 brokenness...