

Network Neutrality in South Korea

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KAKAO Voice Talk – mVoIP





Throttling of mVoIP traffic

보이스톡 3G 데이터 현황 기상도

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	국내			해외	
	SKT	KT	LGU+	일본 JAPAN	미국 U.S.A
연결상태					
손실률 loss rate	17.22	11.16	1.11	0.97	3.17

1) 연결상태

-  : 깨끗한 대화가 가능한 상태 (손실률, 0이상 3미만) **smooth communication is possible**
-  : 대화는 가능하나 불편한 상태 (손실률, 3이상 10미만) **communication is almost impossible**
-  : 대화가 거의 불가능한 상태 (손실률, 10이상) **communication is almost impossible**

Throttling of mVoIP traffic



KCC (Korea Communications Commission)

- Approval of the terms and conditions of use
- Autonomous regulation of market

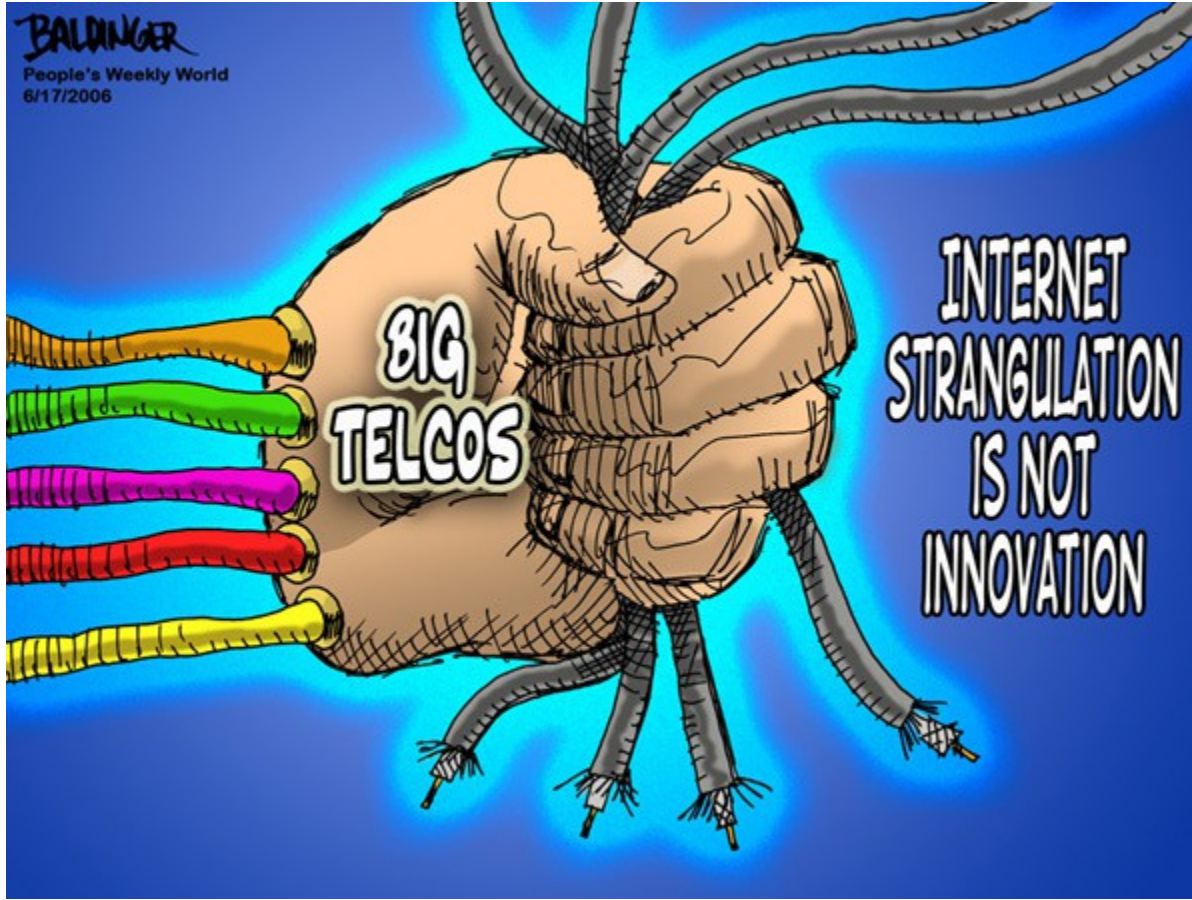
Telecom

- mVoIP, Substitute of voice communications
- Shrinkage of investment to network
- A free ride on network



Source : Flickr.com, Lassi Kurkijärvi

Future of the Internet ?



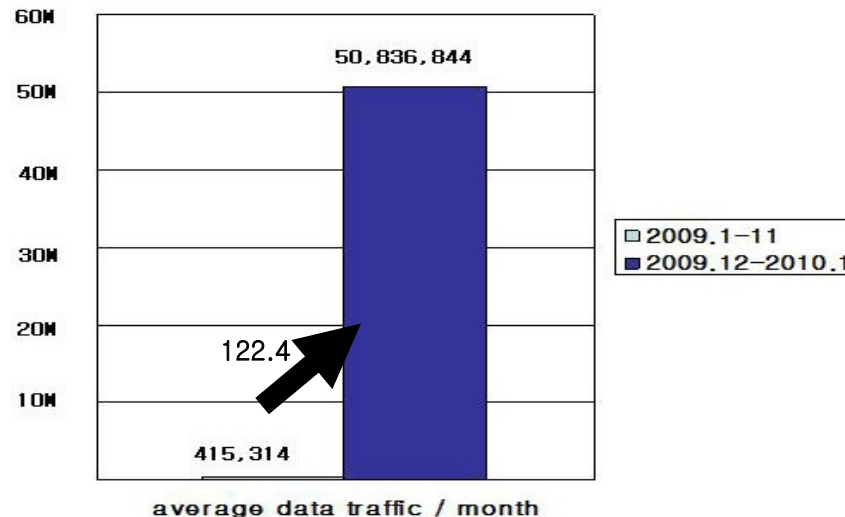
Source : http://www.dbaldinger.com/opinion_cartoons/second_page/strangulation.html

Internet Architecture

- The End-to-End principle
 - “intelligence” is located at the “end”
- Open and Neutral Internet
 - Create competitive environment for innovation

Before and After iPhone

Before	After
<ul style="list-style-type: none">• Device control by Telco (wifi, GPS is not allowed)• Internet access through gateway of Telco• Poor contents and app• High data communication cost	<ul style="list-style-type: none">• Various and multi-functional device• free connection to Internet through wifi and 3G• app market explosion



Network Neutrality

- ISP should treat all data equally, **not discriminating** by user, type of content, and type of attached device
- Users should be able to access to any content, application and services of their choice, using suitable devices of their choice.

Human Rights Aspect

- Universal access, User's fundamental right
- Freedom of expression
- DPI violates user's privacy

Economic Aspect

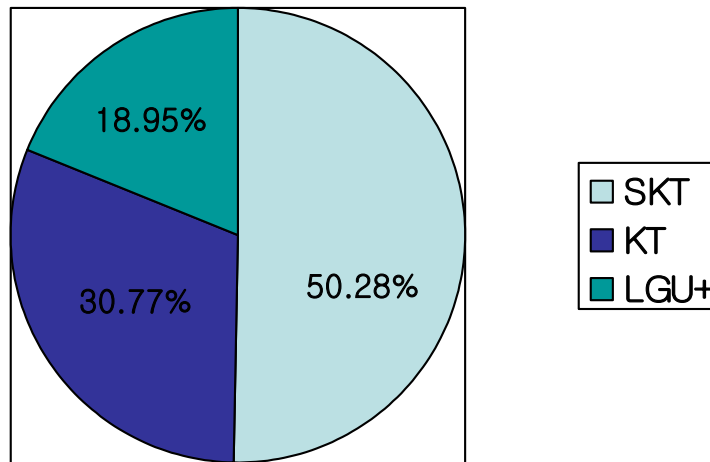
- Unfair competition
 - “mVoIP, Substitute of voice communications”
- Free Riding?
 - Blocking of Samsung SmartTV traffic (2012.2)
 - KT CEO “There is no free lunch”
 - Impossible to collect tolls from Contents Providers all over the world

How to regulate?

- U.S FCC, Open Internet Rule (2010.12)
- Legal Regulation : Chile, Netherlands
- Guideline
- Depends on market situation
- NN is a global norm.
 - We need global governance.

Telecom Market (S.Korea)

- Oligopoly of SKT, KT, LGU+
 - Especially, in mobile market



2012.12

Legal Regulation (S.Korea)

- Telecommunications Business Act
 - Article 3(1) **No** telecommunications business operator may **refuse to provide** any telecommunications service, without justifiable grounds
 - Article 50 (Prohibited Acts) (1) No telecommunications business operator may commit any of the following acts which undermine or are feared to **undermine fair competition or user's interests**, or allow other telecommunications business operators or third parties to commit such acts:
 - 1. Acts which place **unfair or discriminative conditions or restrictions** on the provision of equipment and facilities, joint utilization, interconnection or joint-use services, wholesale services, provision of information, etc;

NN Guideline (S.Korea)

- KCC publish NN Guideline (2011.12.26)
 - Not applied to mVoIP case
- Main Contents
 - User's Rights
 - Transparency of Traffic Management
 - No Blocking
 - No Unreasonable Discrimination
 - Allow reasonable traffic management
 - For Security and stability of network
 - For minimizing Network congestion
 - By legislative provision

TM Guideline (S.Korea)

- 2012, KCC launch NN policy consultative committee, discuss traffic management guideline.
- Drawback
 - Undemocratic process of NN committee
 - Allow discrimination of P2P, heavy users's, and unstandardized traffic
- Dismissed by KCC, but reignited by MSIP in 2013

Where is User's Voice?

- Telecom vs CAP ?
- Need user's platform for MS dialogue

Network Neutrality User Forum

- Launch 2012.5
- 11 org. + users, experts
- Lecture, Forum, Seminar, Advocacy ...
- Publish the book <Speaking of Net Neutrality>



Thank you for your attention!