

Voice over IP

APRICOT 2005

Internet Telephony Keytrack

James Seng

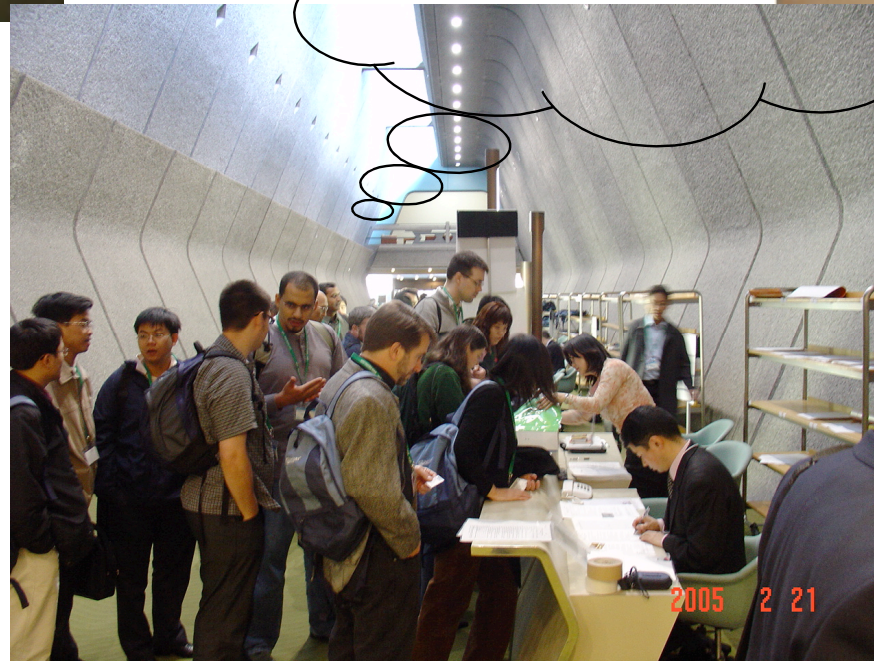
APEET Chair

A. Director, IDA Singapore

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Singapore



... We are all here for Phones





What is VoIP?



*“People say they have VoIP, but
if you can't give me a SIP URI,
then you don't have VoIP.”*

Henry Sinreinch

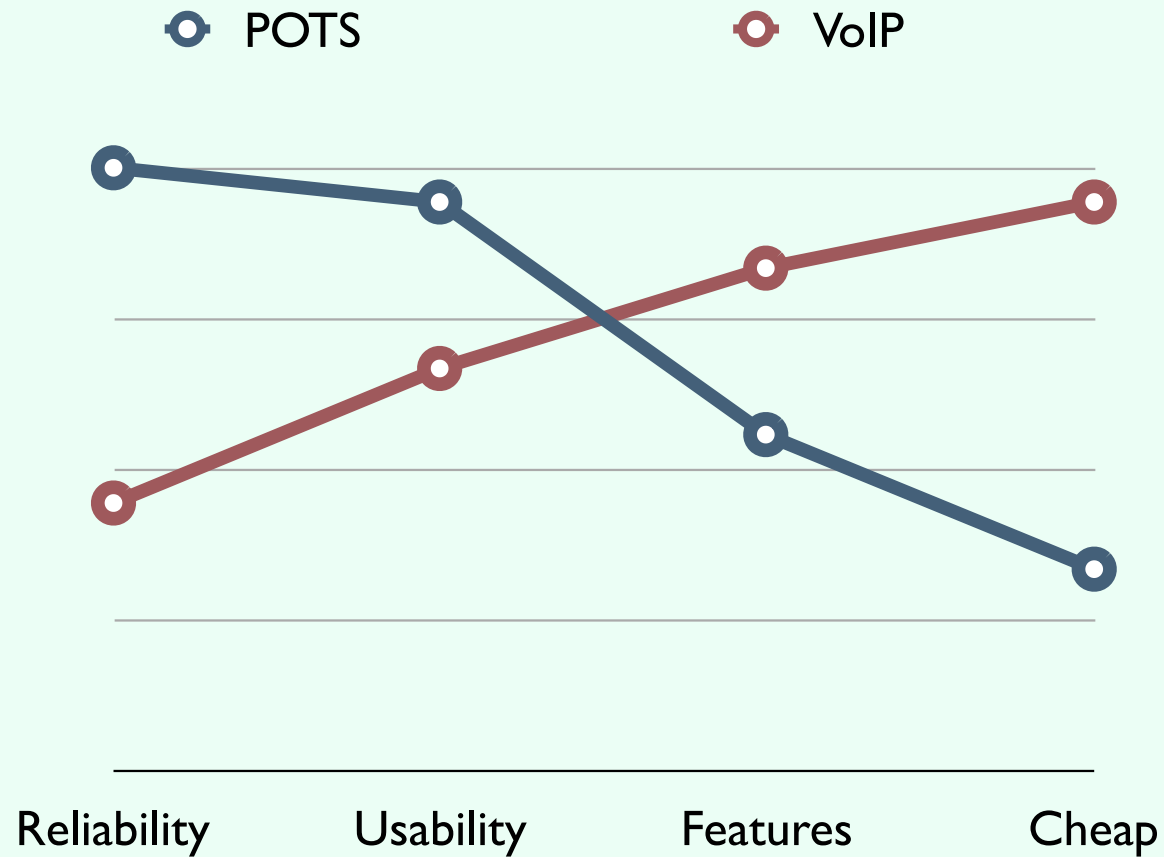
VON Spring 2004

The VoIP Invasion

2006?

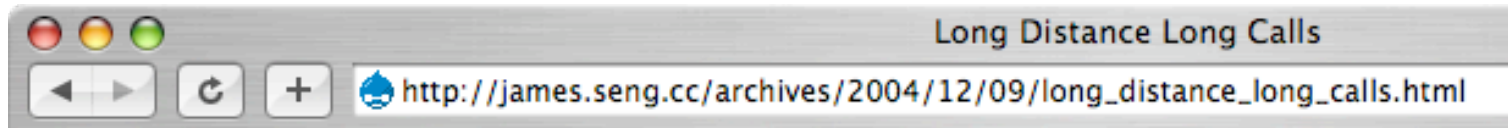
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VoIP Value Innovation



Disruptive Technology

- VoIP is a classic Disruptive Technology
- Lower performance, lower cost entering a heated scene
- Ignored by mainstream market players
- Technology matured quickly and outperform establish technologies
- Incumbent struggled with new entrants and subsequently failed to capture market.



JAMES SENG'S



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december 09, 2004

Long Distance Long Calls

» [VoIP](#)

In the last few days, I would use Skype to call home talk to my wife from my hotel. But what's interesting is that we don't hang up anymore when we done. We would leave the session on whole night while I go bath, watch tv, sleep while she will be doing her own stuff.

We can always hear each another background noise and when we need each another, we just call out each another. It is as if I am at home, but in a different room. Now, ...I need to start travelling with webcam ... :-)

Posted by jseng on 9:21pm :: [add new comment](#) | [administer](#) | [unsubscribe](#) | [trackback](#)

No more cashcow



“Paradox of the Best Network”

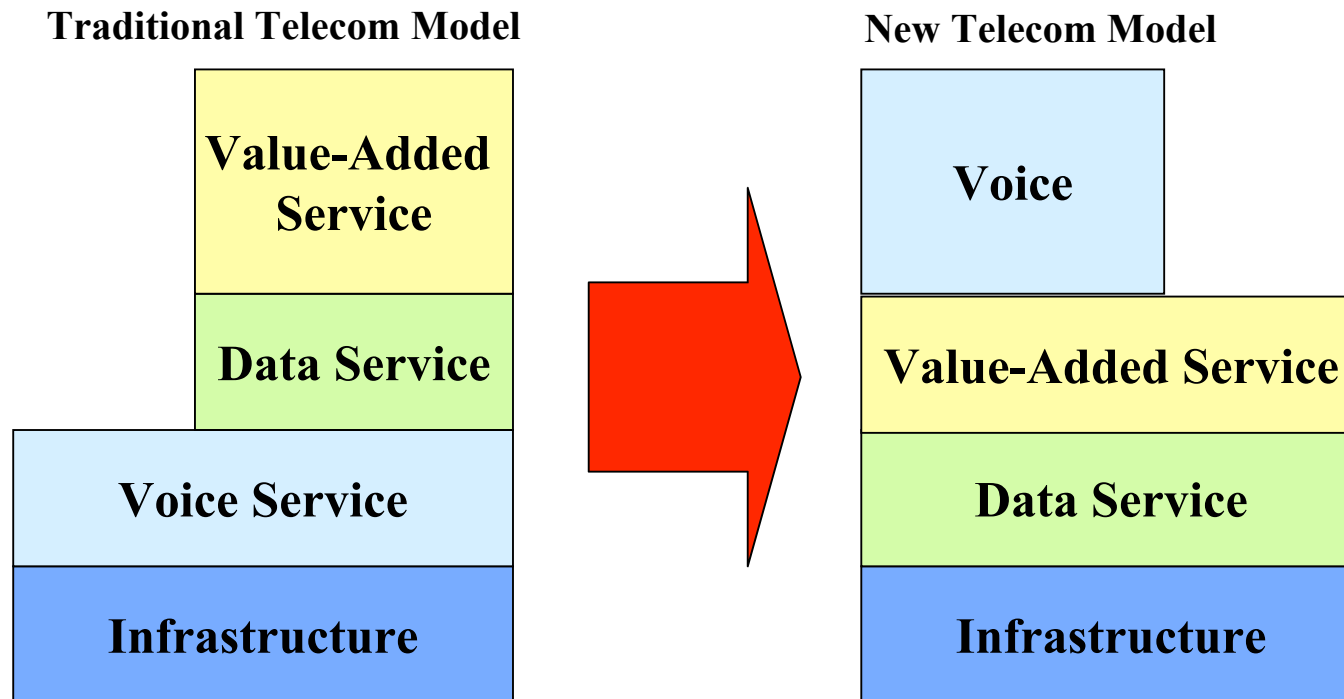
- The “best network” is one that just moved the bits.
- The “best network” is also the hardest to make money for the operators.

- Good news for users
- Bad news for operators.

Public Policy

Regulations are bad...?

Paradigm Shift



Voice is just another IP application like Email

What is this?



Challenges

- Numbering
- Interconnection
- Social Obligations
- Economy Impact
- QoS, Privacy, Law Enforcement
- Licensing

More nightmares...

- Lobbying
- Refusal to interconnect
- Refusal to interoperable
- Port blocking, packet dropping, traffic jittering
- Changing social norms (SPIT)
- more, and much more licensees!

Pan-Asia IP Telephony



Innovation Role Model



“The next decade will see the net spread even further and start to become the basic communications infrastructure for almost anything...the net will stop being a part of the telephone network. Instead the telephone network will become a part of the net.”

Vinton G. Cerf

1st Jan 2004, BBC Interview

