IP telephony global market developments

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- trends in international telephony
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INTUG broadband Internet access

- significant push for broadband
- link to economic growth
- wide divergence in national performances
- bundled with voice telephony:
 - cable modem plus cellular
 - ADSL plus CPS/VoIP
- e.g. Free in France (free.fr):
 - 20Mbps/1Mbps ADSL2+ €29.99 per month
 - with free calls to the fixed network in France
 - €0.03 per minute for many countries



INTUG international telephony

- governments have removed bottlenecks
- which has increased competition
- causing sharp reductions in prices
- except for calls to mobile networks with Calling Party Pays (CPP)
- in developed countries:
 - incumbent operators response to the challenged of cheap VoIP is to bundle:
 - "all you can eat" national tariff conceals per minute rates
 - DSL plus "telephony" (plus video, etc.)
 - but excluding fixed-to-mobile
 - enormous benefits from economies of scale
 - some operators offer in-bound numbers in other cities and countries



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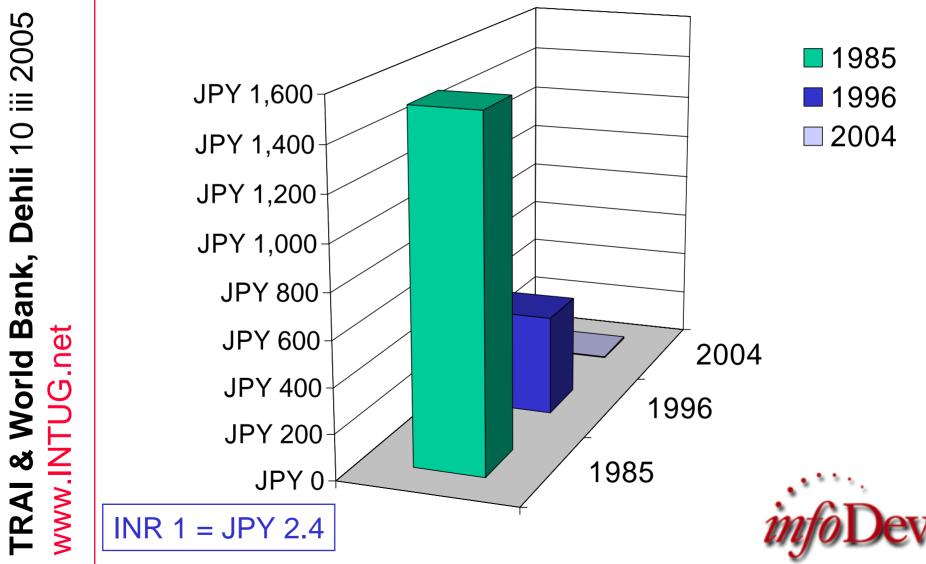
IRAI

- BBphone launched in August 2002
 - now has > 4 million lines
 - it is a significant factor in consumer selection of broadband supplier
 - free on-net calls
 - ¥ 7.5 for 3 minute call to PSTN in USA
- NTT launched VoIP in February 2003
- some operators peering VoIP August 2003
- Ministry of Internal affairs and Communications has defined:
 - ambitious targets for the ubiquitous network society
 - 4 classes of Quality of Service (QoS)
 - special 050 number range

INR 1 = JPY 2.4



INTUG call from Japan to the USA



INTUG United States of America

- mobile operators have offered flat-rate plans
- Vonage (unlimited calls within USA and Canada):
 - works with broadband connection
 - area codes available in most states
 - US\$ 24.99 per month residential
 - US\$ 49.99 per month small business
- Broadvoice:

US\$ 1 = INR 44

- Unlimited world US\$ 24.95 per month (35 countries, to fixed not mobile)
- also numbers for United Kingdom
- the end of the long distance operators:
 - AT&T acquired by SBC
 - MCI acquired by Verizon



INTUG United States of America

- supposedly light regulation, but:
 - contribution to universal service fund
 - engineered to allow wire-tapping
 - access to emergency services
- call rates are not regulated
- on-going dispute between federal government and the states over their ability to regulate and tax VoIP
- FCC has ruled against blocking VoIP
- many legal challenges still to be heard



INTUG VoIP as an application

- simple download
- instant messaging (ICQ, Yahoo, etc)
- Skype:
 - is not a service
 - already reached 2,000,000 concurrent users
 - shows on-line status of "buddies"
 - can be embedded in a PDA
 - SkypeOut gateway to the PSTN
- games consoles with voice (and Wi-Fi):
 - Nintendo DS
 - Sony PSP



INTUG challenges for fixed carriers

- low (economic) barriers to entry
- new carriers with lower cost structures
- loss of traditional revenues
- perceptions of the financial markets:
 - they do not like declining revenues
- additionally, in developing countries:
 - lack of resources, skills and capital
 - "grey market" eroding their profit margins
 - bundling with broadband and video is not financially significant

INTUG challenges for 3GSM operators

- Arun Sarin (CEO, Vodafone) thinks VoIP is
 3-5 years away from mobile operators
- VoIP "prices" make fixed-to-mobile calls look yet more expensive:
 - for many, the only itemised call charges
- can MNOs move to a "flat fee" model?
 - for subscription customers?
 - for pre-paid customers?
- VoIP over EDGE or UMTS?
 - not with per Megabyte charges
 - unnecessary with flat rate voice fees



INTUG corporate IP-VPNs

- regulation in most countries is:
 - antiquated and silent on IP, MPLS, etc.
- thus very unclear what is (not) permitted
- problems of integration with mobile
- corporate users want:
 - truly global services on resilient infrastructure
 - dial-in access from fixed and mobile networks
 - IP/IP.sec access from DSL, cable modem, etc
 - break-out to PSTN and the Internet
 - binding Service Level Agreements (SLAs)
 - MPLS interconnection

INTUG small and medium businesses

- limited attention to ICTs
- slow uptake of ICTs
- opportunities to provide IP telephony as a managed service



INTUG conclusions

- change is and will remain rapid
- strong economic drivers
- increasing technological capabilities
- needs of equipment manufacturers for new products
- tendency to "bundle" to get greater monthly Average Revenue Per User (ARPU)



INTUG thank you

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