NOMS Distinguished Experts Panel

VoIP management

Does the emperor have any clothes on

Vancouver, Thursday, 6 April 2006







Meet our Panelist

- Aiko Pras, chair
 University of Twente, the Netherlands
- Magda Nasser, AT&T, USA
 Design and implementation VoIP network and services
- Amy Pendleton, Nortel, USA
 Senior Advisor and implementor, IETF VoIP management
- Alexander Gelman, Panasonic Digital Networking Laboratory, USA Chief Scientist, consumer communications and networking
- Henry Sinnreich, Pulver.com, USA
 CTO, SIP design MCI Advantage, SIP Forum, IETF voice standards







Importance of PSTN

Example: KPN the Netherlands

- 27000 employees
- Revenues 2005: 12 Billion Euro
- Profit: 2.3 Billion Euro
- Profit PSTN: 619 Million Euro (27%)

Telephony is still important for operators







FROM PSTN TO VolP

VoIP takes over PSTN

- VoIP gets important for many players
 - Traditional telecom operators
 - New VoIP service providers (Skype, SIPgate, ...)
 - Equipment vendors(Telco, Enterprise, End user, ...)
 - Etc.







Telecom operators



Voice over IP from AT&T reinvents the way you use your phone by merging it with your high-speed Internet connection. VoIP from AT&T converts your voice into data and uses your broadband connection to send and receive calls. Connect your home or business with VoIP service from AT&T and start enjoying the remarkable voice quality, powerful new features, and comprehensive savings that broadband phone service from AT&T can deliver.



Now high-speed Internet users can enjoy unlimited local and long distance calling for just \$29.99/mo¹. Plus:

- Unlimited calling in the U.S. and to Canada
- Your favorite features and powerful new ones, like Locate Me
- Consistent voice quality
- · Low international rates
- Efficient and productive communications options for home offices

Broadband service charges not included. 1st month free offer expires 6/30/06 for web orders only. Inft calls are billed at addit per-minute rates, 29.99 service carbvation fee applies. Disconnect fice and other charges may apply. DSL or cable internet access required. Service will not function during a power or broadband service outage and is not compatible with home or office security systems. Other restrictions apply.

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What happens when the world's networking company merges the possibilities of VoIP technology with the power of its business communications? You get AT&T Business VoIP Service, the network-based VoIP service that enables husinesses.

- · Evolve at their own pace
- · Protect existing investments
- Future-proof their networks
- · Initiate more efficient cost management

- How will they be able to get revenues / profit from VoIP?
- How to beat Skype?
- Is Quality / availability of key importance?
- Is management of VoIP services essential?
- How to setup a VoIP network?

Now: Mostly Cloudy, 12° C 🤼 🚵 🧞 🧞







Equipment vendors









- What management functions should be provided?
- Is central equipment still needed, or will P2P technologies like Skype take over?
- Is there a need for VoIP management standards?







Other VoIP management questions

- Do we need 99.999% availability?
- Is network QoS management important (DiffServ etc.)?
- Does VoIP require a dedicated network infrastructure?
- Is it only monitoring, or also configuration management
- What VoIP management topics should researchers focus on?
- Can Skype comply with telecom legislation?
- Is management still necessary with P2P solutions like Skype?
- Does the emperor has any clothes on?



