



Opening of the VoIP Workshop @ TNC2005

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Background information

- TERENA, after publishing last year the big-orange “IP Telephony Cookbook”, decided to organize a VoIP Workshop to show some of the interesting things this book talks about
- Some of the authors of that book plus international experts in the field of IP Telephony have taken part in the organization and preparation of this workshop
- After leading the “IP Telephony Cookbook project”, I have also the honor to chair this workshop since Erik Dobbelsteijn could not join us

Introduction to the VoIP WS

- Purpose
 - give an overview of relevant VoIP and Videoconferencing technologies and their applications
- Point-of-view
 - application-driven (we try to show why you could need these technologies)
- Target
 - getting VoIP and Videoconferencing more deployed in the research community by spreading the knowledge
- What the workshop is about then?
 - different usage scenarios where VoIP and Videoconferencing are relevant
 - actual and future developments (introduced by a tutorial part)
 - hands-on experience

Program

9:00 – 9:15 Opening of the workshop and scenario's introduction
(by Saverio Niccolini, NEC)

9:30 – 10:30 PBX replacement
(by Wojciech Nawrot, Wojciech Sronek, Krysztof Turza, PSNC)

10:30 – 11:30 Coffee Break

11:00 – 12:30 SIP Tutorial
(by Stephen Kingham, AARNET, and Saverio Niccolini, NEC)

12:30 – 14:00 Lunch break

Program

14:00 – 14:45 SIP.EDU deployment
(by Ben Teitelbaum, Internet2, and Dennis Baron, MIT, via video)

14:45 – 15:00 VoIP and Videoconferencing are basically the same
(by Saverio Niccolini, NEC)

15:00 – 15:30 Two standards (H.323 and SIP): bridging both worlds
(by Joao Pereira/Rui Ribeiro?, FCCN)

15:30 – 16:00 Coffee Break

16:00 – 16:45 Future developments, including presence, instant messaging and more
(by Stephen Kingham, AARNET)

16:45 – 18:00 Hands-on part (SIP, PBX)
(by Stephen Kingham, AARNET, working in groups)

Special thanks

- TERENA committee
- Organizers and speakers:
 - Erik Dobbelsteijn
 - Wojciech Nawrot
 - Baiba Kaskina
 - Stephen Kingham
 - Rui Ribeiro/Joao Pereira?
 - Wojciech Sronek
 - Krzysztof Turza
 - Egon Verharen
 - Local organizers from PSNC



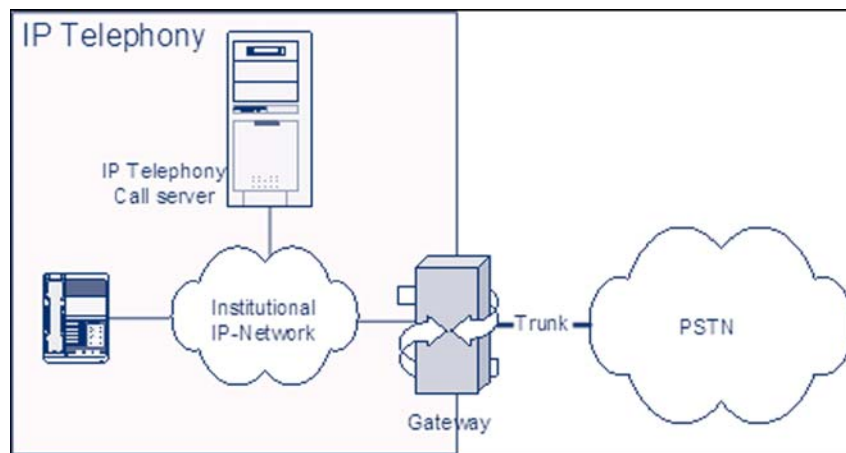
Scenario's introduction

Scenarios

- 1st scenario of today's workshop is:
 - PBX replacement
 - it makes part of a more general section on “Alternatives to legacy PBX systems”
 - IP Phones without a PBX system
 - Integration of VoIP with legacy PBX systems

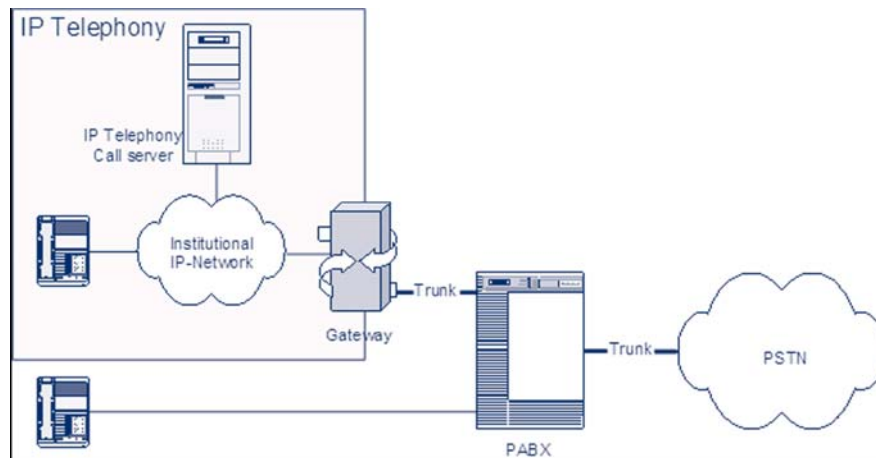
Scenarios

- PBX replacement
 - building a telephony service from scratch
 - adopted in “greenfield” situations or when the legacy PBX is depreciated
 - allows for additional services to be easily introduced (not always possible when integrating VoIP with legacy PBX)
 - imposes the administrators to make some choices (endpoints, signalling, gateways, trunking, etc.)



Scenarios

- 2nd scenario of today's workshop is:
 - SIP.EDU deployment
 - it is an “Integration of VoIP with legacy PBX systems”
 - the first one on a world-wide scale
 - the first one based on SIP



Scenarios

- SIP.EDU deployment
 - Project of the Internet2 VoIP working group (<http://voip.internet2.edu/>)
 - Aim:
 - Increase the number of SIP-reachable users (mainly in Internet2 but open to other academic institutions)
 - Extend email identities to voice services (promote convergence)
 - Build an academic community developing and deploying SIP services
 - with low cost entries
 - providing an useful service

Scenarios

- 3rd scenario of today's workshop is:
 - Integration of VoIP and Videoconferencing
 - they are basically the same
 - there are a couple of pitfalls to take into account (gateways, call routing, etc.)
 - examples are already in place nowadays (for example at SURFNET's office, or at NEC's Network Laboratories)

Scenarios

- 4th scenario of today's workshop is:
 - Integration of H.323 and SIP protocols
 - once you have set-up beautiful scenarios you do not want to stop because of different protocol choices!
 - bridging the two worlds is needed to increase interoperability among world-wide deployments
 - problems related to the bridging of two protocols with different “mentalities” (e.g. lost of additional services)

Scenarios

- How can we move forward?
 - 5th scenario of today's workshop is about:
 - Future developments
 - how to integrate value added services (presence, instant messaging, etc.) to the previous scenarios

Scenarios

- How can we get there?
 - we have to start from the basics!
 - that what the hands-on part is about

That's all!

Questions?

