

# INFORMATION TECHNOLOGY

## Open Source Case Study VoiceCon Spring 2007

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Southern Company

## What lessons have end users learned from their open source experiences?

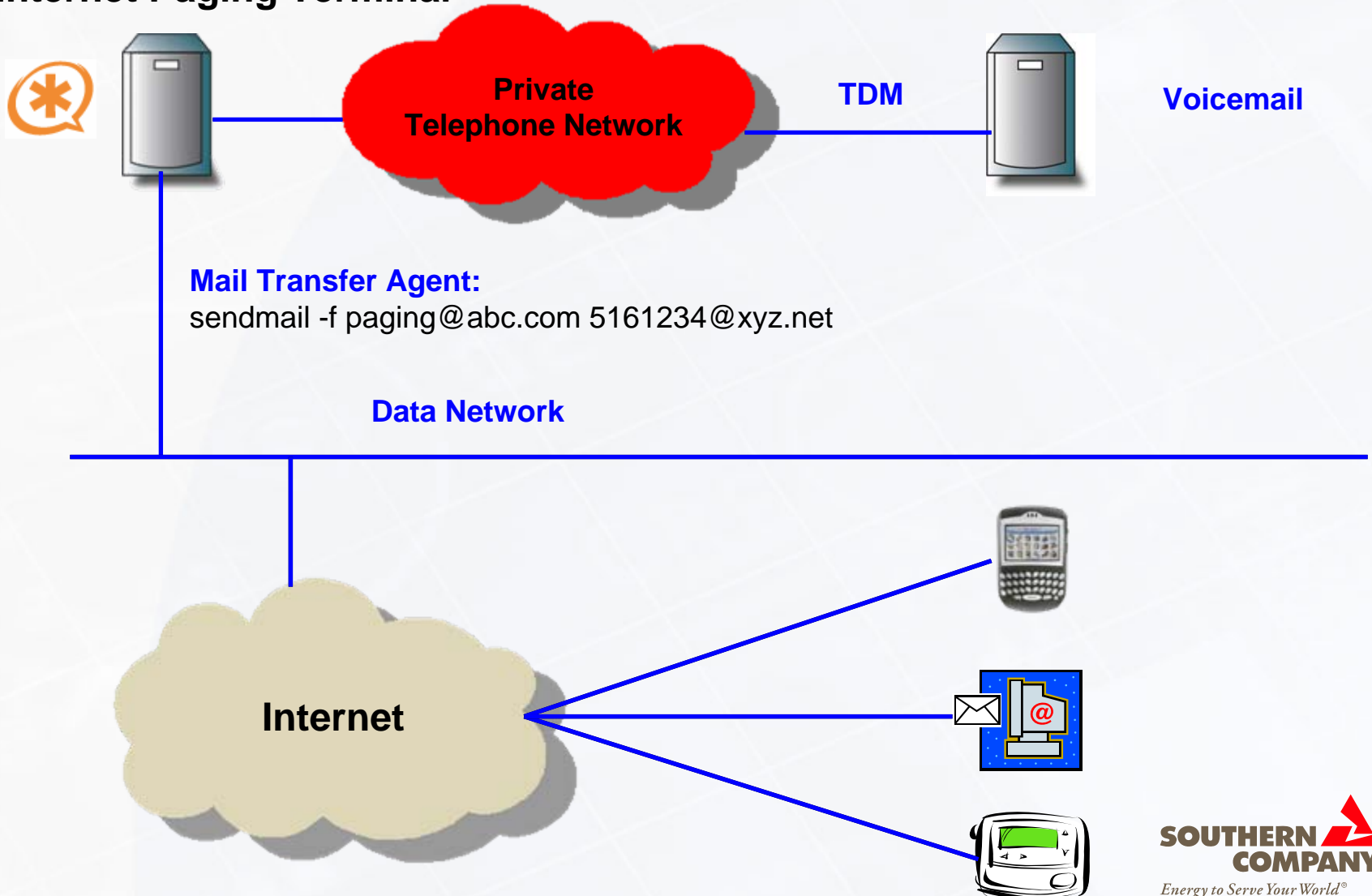
- Open Source Projects provide value to the enterprise
  - Extremely cost effective
  - Facilitates innovation
  - Leverages skills possessed by today's graduates
  - Code is always available to users (No escrow agreement required)
  - Provides for modification and extension

What types of applications and deployments have worked best with open source?

- Internet Paging Terminal

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## Internet Paging Terminal



## What types of applications and deployments have worked best with open source?

- Internet Paging Terminal
- End point interoperability testing

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Grandstream

SIEMENS

CISCO SYSTEMS

AVAYA

**SOUTHERN COMPANY**  
Energy to Serve Your World®

## End point interoperability - SIP devices

- Avaya
- Siemens
- Cisco
- Grandstream
- snom
- Sipura
- JPS / Raytheon
- RIM
- Polycom
- Vizufon
- CounterPath (XTEN)
- Leadtek
- Firefly

## What types of applications and deployments have worked best with open source?

- Internet Paging Terminal
- End point interoperability testing
- Video Telephony / Video Conferencing Proof of Concept
- Telecommuting Proof of Concept
- SIP Central Office Simulation

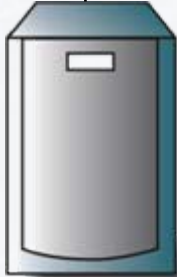
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**AVAYA**

one-X Quick Edition

  
Asterisk

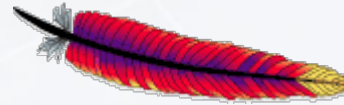


**SIEMENS**



## What types of applications and deployments have worked best with open source?

- Apache - Web Server



- Ethereal / Wireshark – Packet Sniffer



- PuTTY – Terminal program



## What hasn't worked as well?

- Updates – Operating System and Application
- Built from component systems

fedora<sup>f</sup>



SIPfoundry

 CentOS

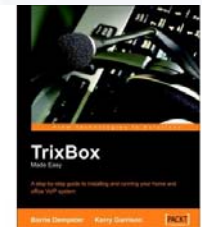
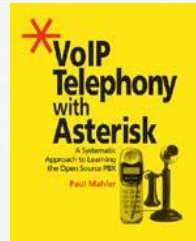


## What are the major obstacles to more widespread use of open source in IP Telephony networks?

- Documentation
- Support
- Licensing / Indemnification
- Security
- Training

## Are these obstacles on the way to being overcome by the industry as a whole?

- Documentation
  - Wikis
  - Books
  - Articles in trade publications
- Support
  - Web (*Google it!*)
  - Wikis
  - Community support
  - Contractual support



**VOIP-info.org**



## Are these obstacles on the way to being overcome by the industry as a whole?

- Licensing / Indemnification
  - Asterisk Business Edition
  - SipX
- Security
  - Vigorous peer review
  - Does not rely on security through obscurity
  - Utilizes solid cryptographic practices
- Training



## Where can you go to find open source software?

- Google
- Web sites
  - Asterisk.org / Digium.com
  - SIPfoundry.org (sipX)
  - SourceForge.net

## What's the best way to get started?

- Distributions

- Trixbox (Asterisk@Home)
- AsteriskNOW
- Xorcom Rapid
- Astlinux
- Asterisk Business Edition

The logo for Trixbox, featuring the word "trixbox" in a bold, lowercase, sans-serif font. A small blue asterisk is positioned above the letter "i".The logo for AsteriskNOW, featuring an orange speech bubble icon with a white asterisk inside, followed by the text "AsteriskNOW" in a bold, sans-serif font. "Asterisk" is in grey and "NOW" is in orange.The logo for XORCOM, featuring a stylized "X" made of two overlapping shapes (one blue, one red) followed by the word "ORCOM" in a bold, sans-serif font.The logo for Astlinux, featuring a small orange speech bubble icon with a white asterisk inside, followed by the word "astlinux" in a lowercase, grey, sans-serif font.The logo for Asterisk Business Edition, featuring an orange speech bubble icon with a white asterisk inside, followed by the text "Asterisk" in a bold, grey, sans-serif font and "BUSINESS EDITION" in a smaller, grey, sans-serif font below it.

## Food for thought

- Disaster Recovery / Number Diversion
  - IP Trunking with IAX2 and SIP

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BlackBerry.



Asterisk



LAN / WAN



SIEMENS



Asterisk

AVAYA



Voice Network

CISCO SYSTEMS



## Food for thought

- Disaster Recovery / Number Diversion
  - IP Trunking with IAX2 and SIP
- SIP Forking

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Dial  
404-506-2552



2552@10.10.10.11



404-506-XXXX  
10.10.10.10



**Network Service  
Provider**



404-506-2552@192.168.1.22

