



### ...SO IN MY DAILY WORK

- Asterisk is not the focus, the main server
- SER/OpenSER is the main platform
- Asterisk delivers services on the SIP network
  - Voicemail
  - PSTN gateway
  - Conference

Which is why I ended up improving the Asterisk SIP stack!

7

# TOO SEPARATE ISLANDS ON THE NET...

Asterisk.org

Postfix.org

Ejabberd

Ekiga

OpenSER

MythTV

VideoLAN

Speex.org

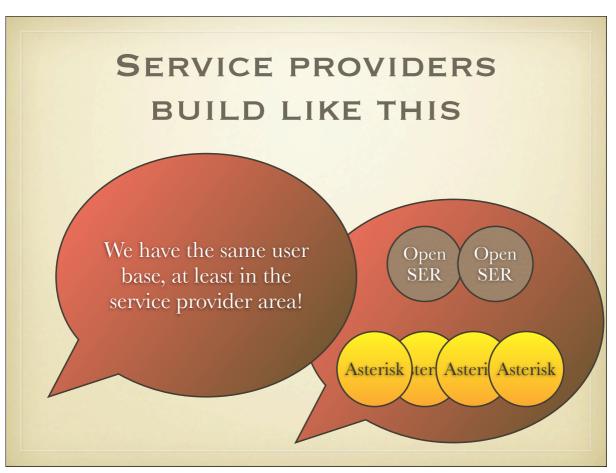
SEMS

ReSIProcate

KDE

5555





## THINGS I MISS IN ASTERISK/OPENSER INTEGRATION

- MWI notification to unregistered users by sip URI
- Presence integration
  - Asterisk handles call states
  - Simple/jabber is user states
- Dialog between OpenSER and Asterisk developers/ users

11



### Big changes

- Asterisk 1.0 was managed by Mark and two additional committers with small dedicated areas of source to manage
- Asterisk 1.2 was managed by Mark and Kevin
- Asterisk 1.4 has been managed by a larger team over 10 committers working on all or parts of the code under Kevin's supervision
- An development advisory council is formed to manage the process

13

### Generic Jitterbuffer

- A jitterbuffer for all channels
- IAX2, SIP, Skinny, zap, jingle
- Developed by Securax in Belgium



### No re-invites needed

- If we know at call setup that we can release media, we will do that directly
- This replaces the re-invites Asterisk used in earlier versions



15

### SIP transfers

- Enhanced support for REFER
- Support for INVITE/Replaces
- Ability to control REFER support
  - allowtransfer = yes | no





### Video support improved

- You can now enable video support per peer in sip.conf
- You can also set maximum bitrate allowed
- Asterisk will not include video stream in outbound call when there's no video in the inbound call
- Passthrough support for H.264

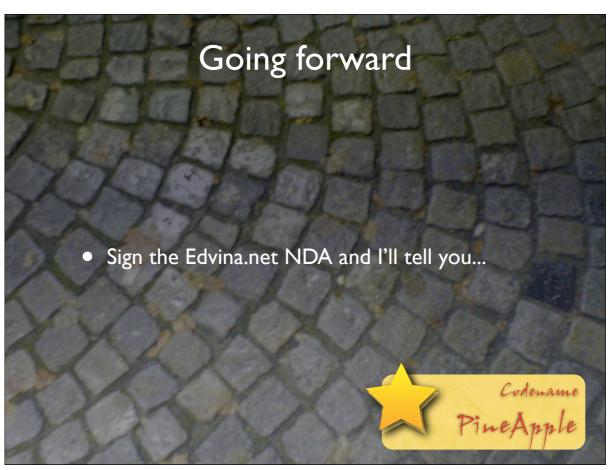


### Other I.4 News in short

- Tons of bug fixes
- Timed RTP transmission
- T.38 fax passthrough support (UDPTL)
- Configurable RTP packetization
- Separate ToS settings for SIP, Audio and Video



19



### Psst... Codename Pineapple!

- Forking from the standard chan\_sip
  - Not a single 17.000 line source code file
- Configuration per SIP domain
- Adding transaction states
- Support for forking SIP proxies (branch/tag etc)
- No pedantic mode!
- No more peer/user type's
  - Trunk, Service, Phone
- New realtime model
- Preparing for new things
  - SIP outbound
  - GRUU
  - Remote RTP handling
  - TCP/TLS



21

# ...when? • Depends on funding... • Current sponsor:Voop, Norway Codename PineApple

