



Sippy {Software,Labs}

Our 15-year Journey Into Open Source VoIP

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Who is Sippy?

- Open source scene since 1998
- On the SIP scene since 2002
- Independent commercial entity since 2006

Sippy Software, Inc.

- Cost-effective Class 4 softswitch/media traffic management solutions for wholesale market
- 200+ active customers, mostly SMEs
- 20 full time staff members
- Sales/Management office in Vancouver, BC. R&D / Tech support in Kiev, Ukraine

Sippy Labs

well known projects

- RTP Proxy
- Python “Sippy” B2BUA
- OpenSIPS/nathelper
- OpenSIPS/mod_python

RTP Proxy

<https://github.com/sippy/rtpproxy>

Media forwarding companion for the OpenSIPS / B2BUA / Kamailio

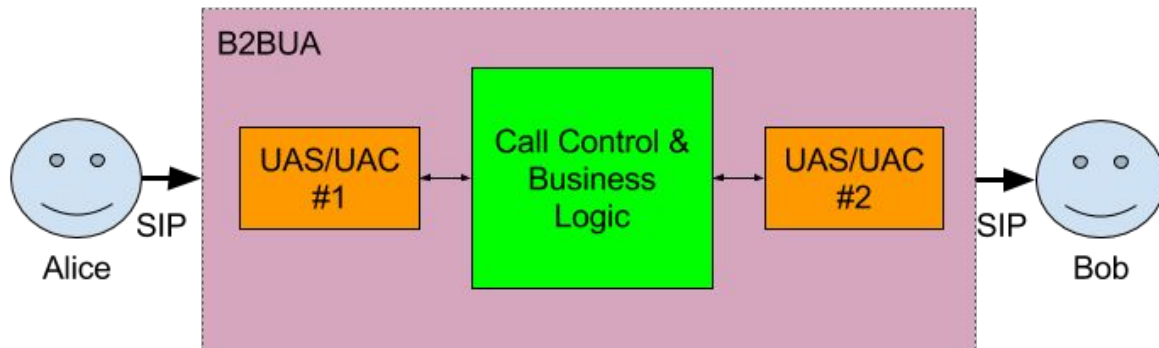
NAT scenarios, Media Pinning, Media Recording, RTP Statistics

Stable, well tested code. Focus on reliability and performance

Sippy B2BUA

<https://github.com/sippy/b2bua>

- Signalling-only B2BUA
- Highly reliable design
- Geared towards ISVs



Sippy Labs, not so well known projects

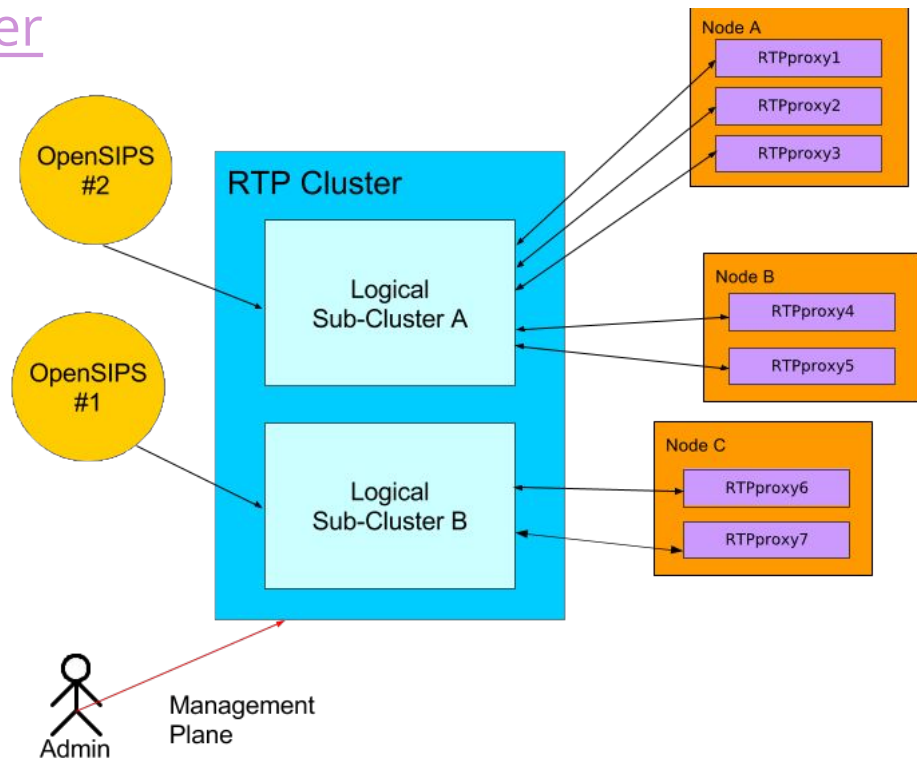
- VApp: <https://github.com/sippy/vapp>
 - Calling card
 - Voicemail
 - Recharge Vouchers
 - Callback
 - Balance Enquiry
- Rtp Cluster: https://github.com/sippy/rtp_cluster

RTP Cluster

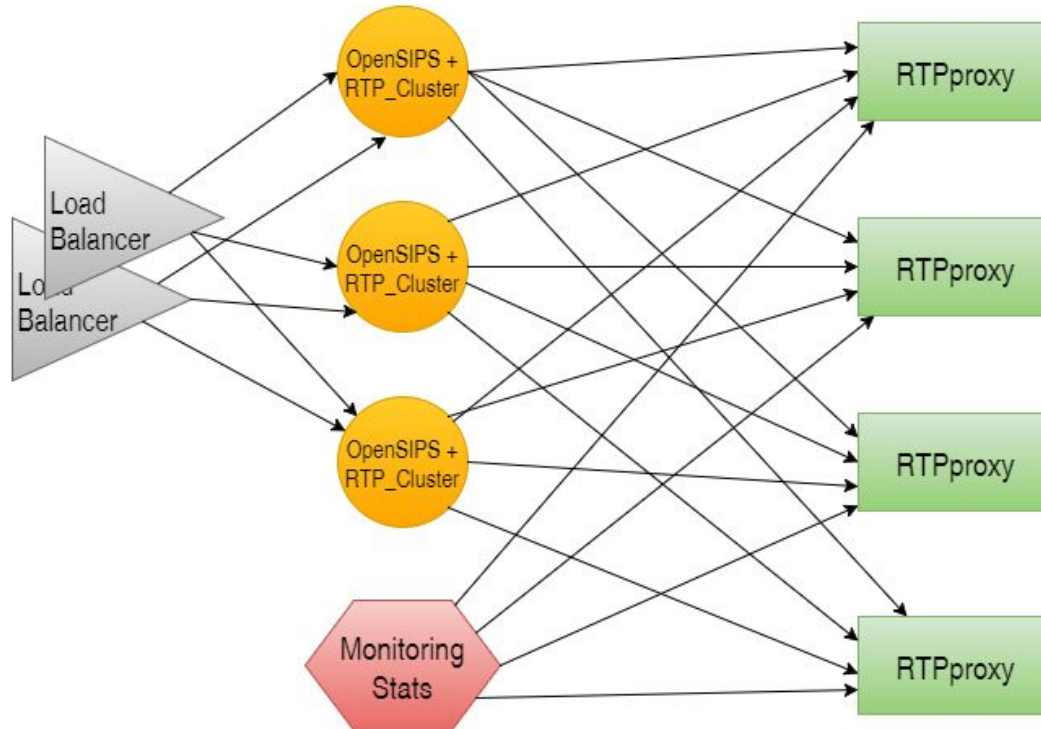
https://github.com/sippy/rtp_cluster

RTP Proxy Control Protocol dispatcher
and load balancer

Separate control plane for making
changes / monitoring



RTP Cluster, bigger picture



Sippy Labs, newest projects

- GO B2BUA: <https://github.com/sippy/go-b2bua>
- Voiptests: <https://github.com/sippy/voiptests>

Go B2BUA

<https://github.com/sippy/go-b2bua>

Reimplementation of the Python “Sippy” B2BUA in GoLang.

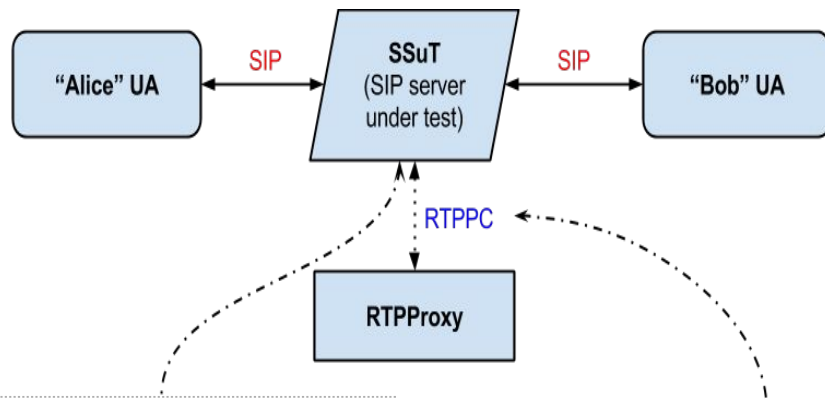
- 4x more performance in CPS terms on comparable hardware
- expected to provide automatic scalability to modern systems
- similar reliability characteristics

VoIP Tests

<https://github.com/sippy/voiptests>

<https://travis-ci.org/sippy/voiptests>

Test multitude of (20+) common SIP calling scenarios



SSuTs:

- Sippy B2BUA (*master*, *PRACK*)
- OpenSIPS (*master*, *2.2*, *2.1*, *1.11*)
- Kamailio (*master*, *4.3*, *4.2*, *4.1*)

RTP/RTSP over:

- Local socket (legacy)
- Local socket (continuous)
- UDPv4
- UDPv6

Questions?

Thank You!