VOLTS
VoIP Open Linear Test Suite

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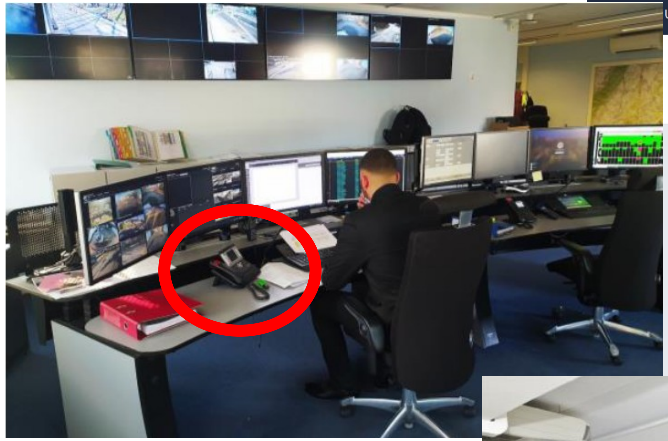
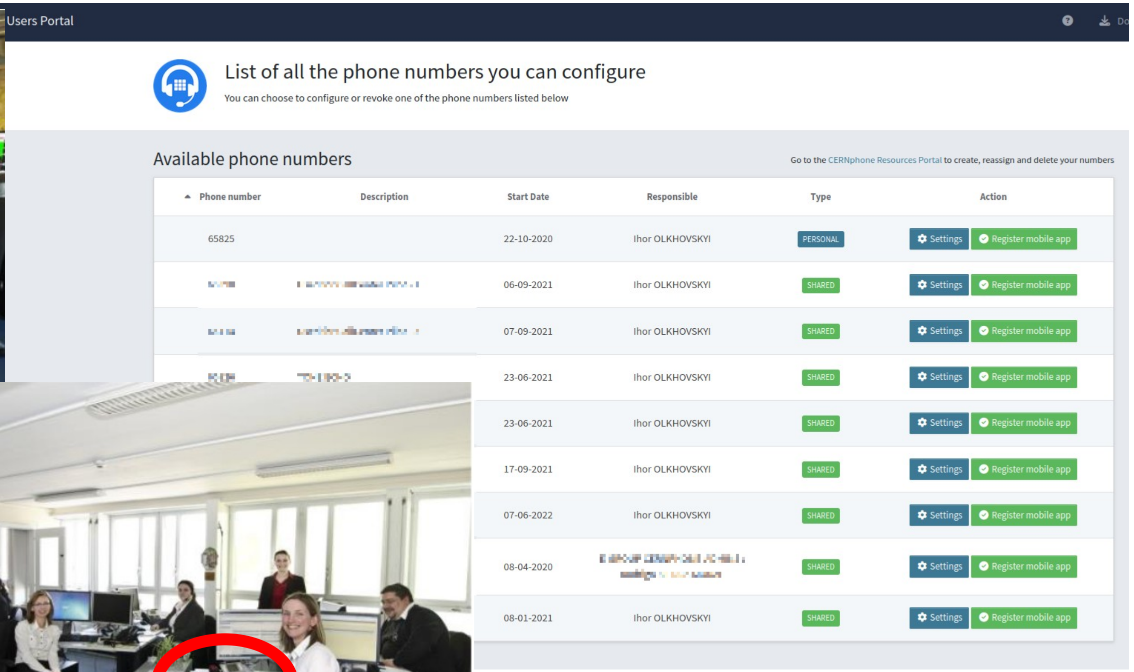
Telephony in CERN

- Yes, we’re still using this “old ways” (cause it works, actually)
  - CERNphone
  - Call Centres
  - Control rooms
  - Personal use





Based on open source

Edge Proxy

Kamailio

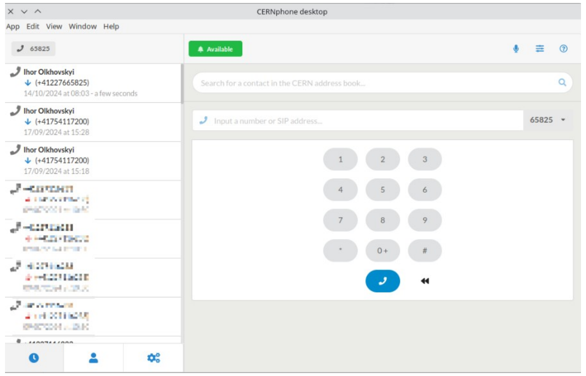
Routing / Application server

Asterisk

* also to mention MariaDB, Python, GNU/Linux, etc

Mobile client

Linphone



Desktop client

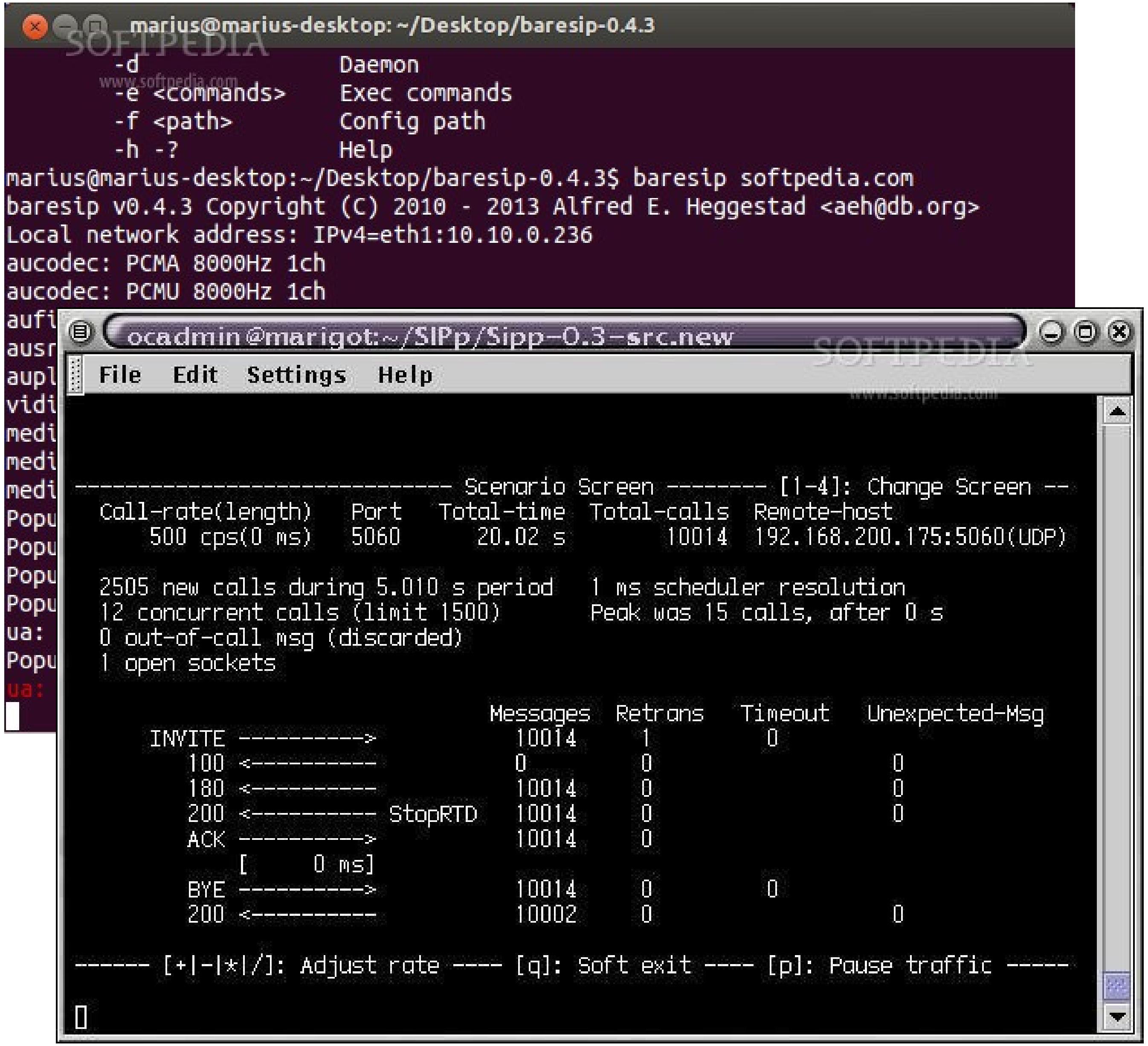
React, Electron, SIP.js...

How telephony system tests looks like?

My desk. Part of it (how it was)

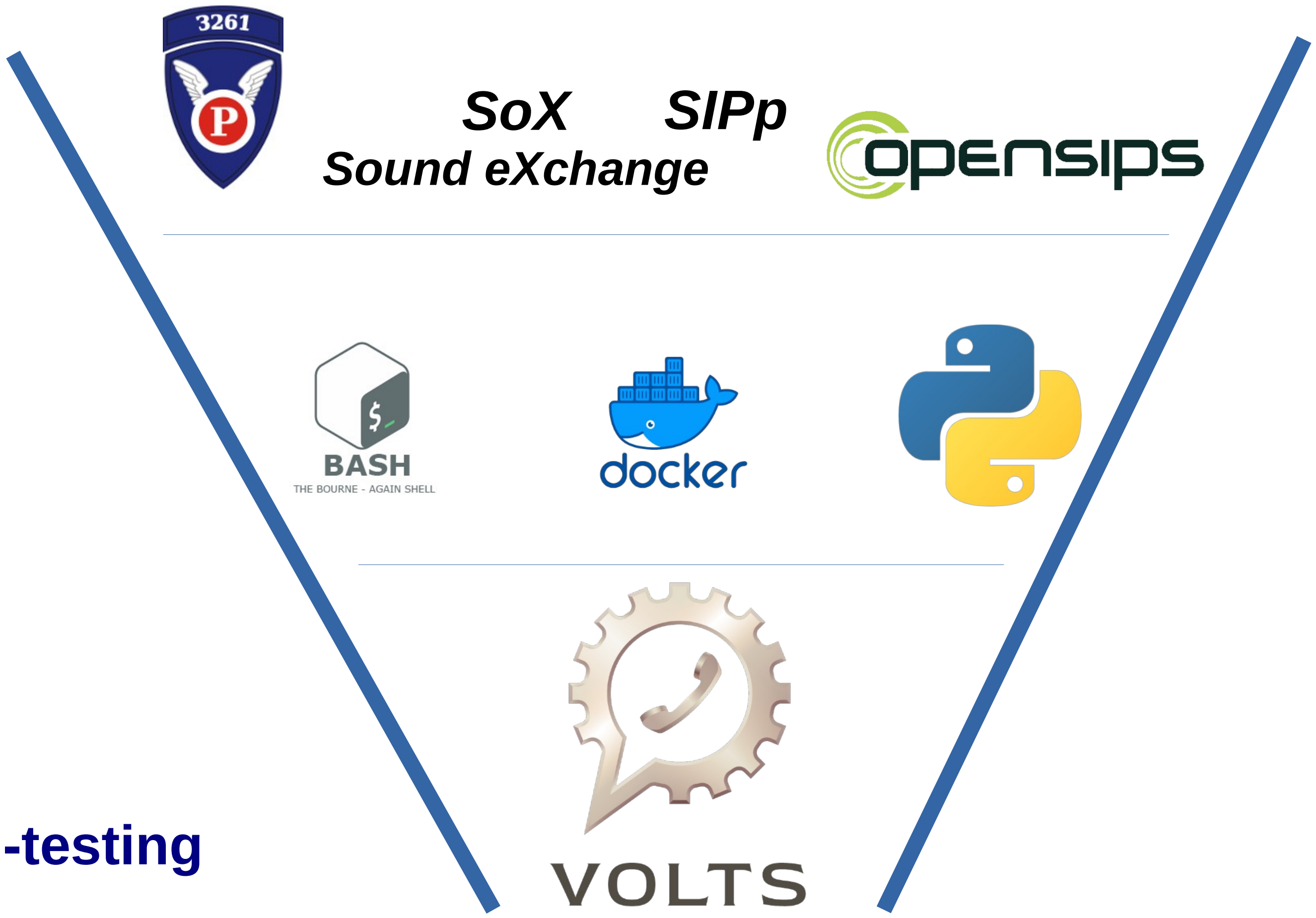
Automated testing?

- No “single approach“ or “industry standard tool” for a testing process
- There are a lot of small CLI tools around to “emulate VoIP device”
- Not what you want?
  - here is SDK. Use C++/Lua/Whatever



VOLTS – VoIP Open Linear Test Suite

- **Just a BASH/Python glue around other open source components**
- **Run multiple scenarios at once**
- **Templates - based**
- **Test-driven-development**
- **GPLv2**



https://gitlab.cern.ch/cernphone/functional-testing
https://github.com/igorolhovskiy/volts

Q&A?