Asterisk Update
OpenSIPS Summit 2017

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- Asterisk 13
- Asterisk 14
- Hope, Encouragement and Inspiration
- The Future
- The Challenge

But first…

- Let’s get to know each other better!

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You don’t have to be great to start,
but…
you do have to start to be great!

Joe Sabah

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Background

- Mark Spencer creates Asterisk in 1999
  - Started a Linux Support business
  - Needed a phone system
  - Did not like the options
    - Cost
    - Vendor lock in
  - Decided to create his own
  - Made it Open Source
  - Digium is born in 2002

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Background

- Zapata Telephony project, Jim Dixon c.2000
  - Saw that the advanced in general purpose CPUs meant that they would be able to do things previously done only by expensive DSPs
  - Created Open Source Telephony Hardware
  - Used with Asterisk

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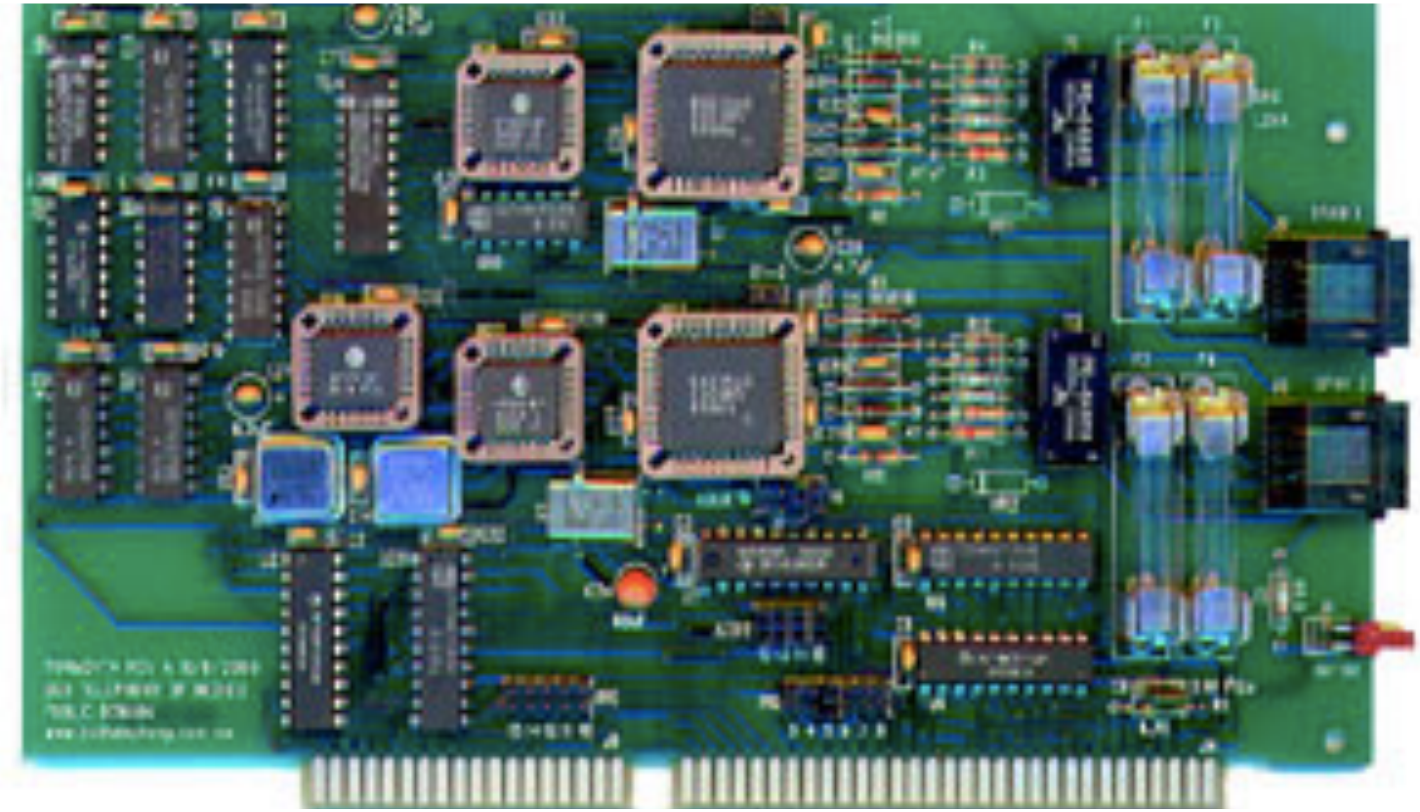
Zapata ‘Tormenta’ Card



Asterisk 13

- Current LTS, Building on Asterisk 12 – which introduced
  - New SIP stack – PJSIP
  - New API – the ARI, or Asterisk RESTful Interface
  - New BRIDGING model

Asterisk 14

- DNS Overhaul
- Publish Extension States to a SIP subscription server
- Playback of media from a remote HTTP server via a URI
- Enhanced ARI media manipulation
- ARI Channel creation more sophisticated
- wiki.asterisk.org

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Asterisk 14

- **Now we can publish extension state to an external entity with the SIP PUBLISH method.**

- **PUBLISH sip:presentity@example.com SIP/2.0**
  Via: SIP/2.0/UDP
  pua.example.com;branch=z9hG4bK652hsge
  To: <sip:presentity@example.com>
  From: <sip:presentity@example.com>;tag=1234wxyz
  Call-ID: 81818181@pua.example.com
  CSeq: 1 PUBLISH
  Max-Forwards: 70
  Expires: 3600
  Event: presence
  Content-Type: application/pidf+xml

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Asterisk 14: Why Publish?

- **Remove state from Asterisk**
- **Improved scalability**
- **Allows offloading of individual subscription management**
- **Separating concerns**

Supported Body Types

- **application/dialog-info+xml**
- **application/pidf+xml**
- **application/xpidf+xml**

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pjsip.conf

```
[test-esc]
type=outbound-publish
server_uri=sip:172.16.0.100
from_uri=sip:172.16.0.100
event=dialog
@body=application/dialog-info+xml
@context=^users
@exten=^1000
```

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Autohint support

[users]
autohints=yes

equivalent to:

exten => alice,hint,PJSIP/alice

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What can I connect with?

- **OpenSIPS**
- **Asterisk**
- **Kamailio**
- **Or anything else that can act as a SIP presence aggregator**

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Credits

Many thanks to:

Josh Colp <jcolp@digium.com>

Kevin Harwell <kharwell@digium.com>

Asterisk development team

The Asterisk Wiki

- An excellent resource. Full of useful information and tutorials, etc.
- A couple of examples:

wiki.asterisk.org/wiki/display/AST/New+in+13
wiki.asterisk.org/wiki/display/AST/New+in+14

How do we learn?

The power to <u>PLAY</u>

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The Gift of HOPE

- Bicycle Powered (and Solar Powered) Asterisk!
- Brings communications to remote communities
- Deployments include Western Uganda

inveneo®

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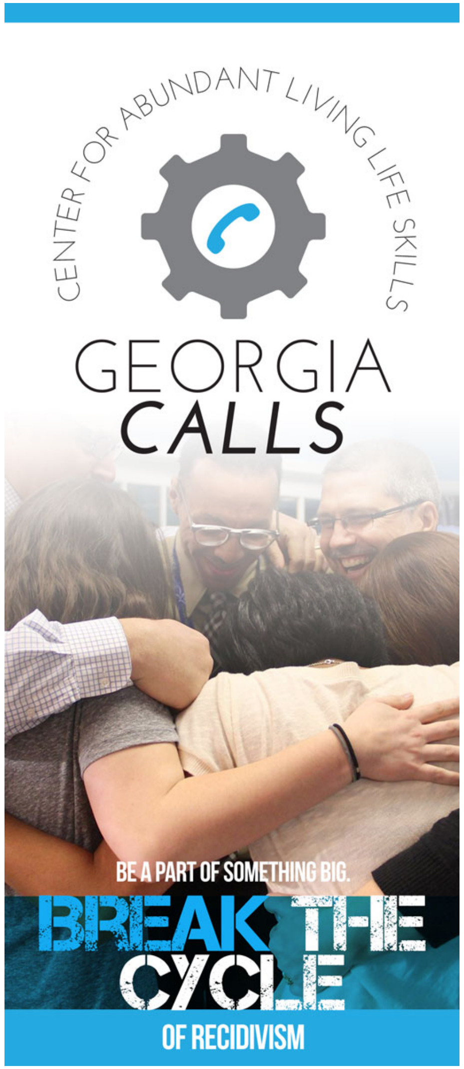
The gift of ENCOURAGEMENT



OpenAnswer
OPEN SOURCE TAS

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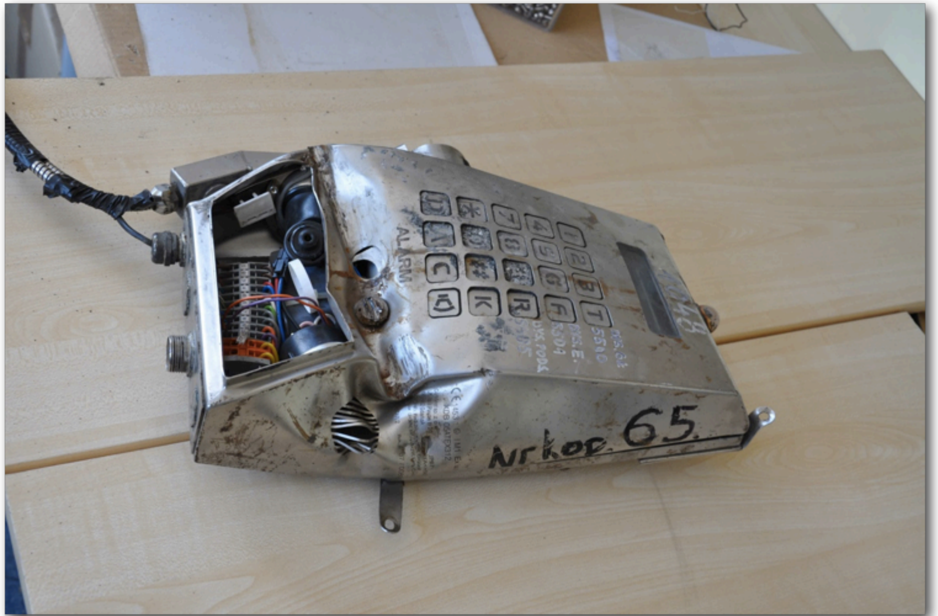
The gift of INSPIRATION

- The Coal Mine - a heavily regulated environment
- Mission Critical – literally Life or Death!



Jakub Klausa, SS7 Technologies

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The Power to PLAY!

Asterisk fosters GROWTH!

- The next generation of RT Communications
- Asterisk as a dynamic media server
- Scalable, resilient systems
- Partnering Projects
  - OpenSIPS
  - Homer
  - Docker

AstriCon 2017

- October 3-5
- Orlando, FL in the USA
- www.astricon.net
  - Speaking
  - Exhibiting
  - Participating

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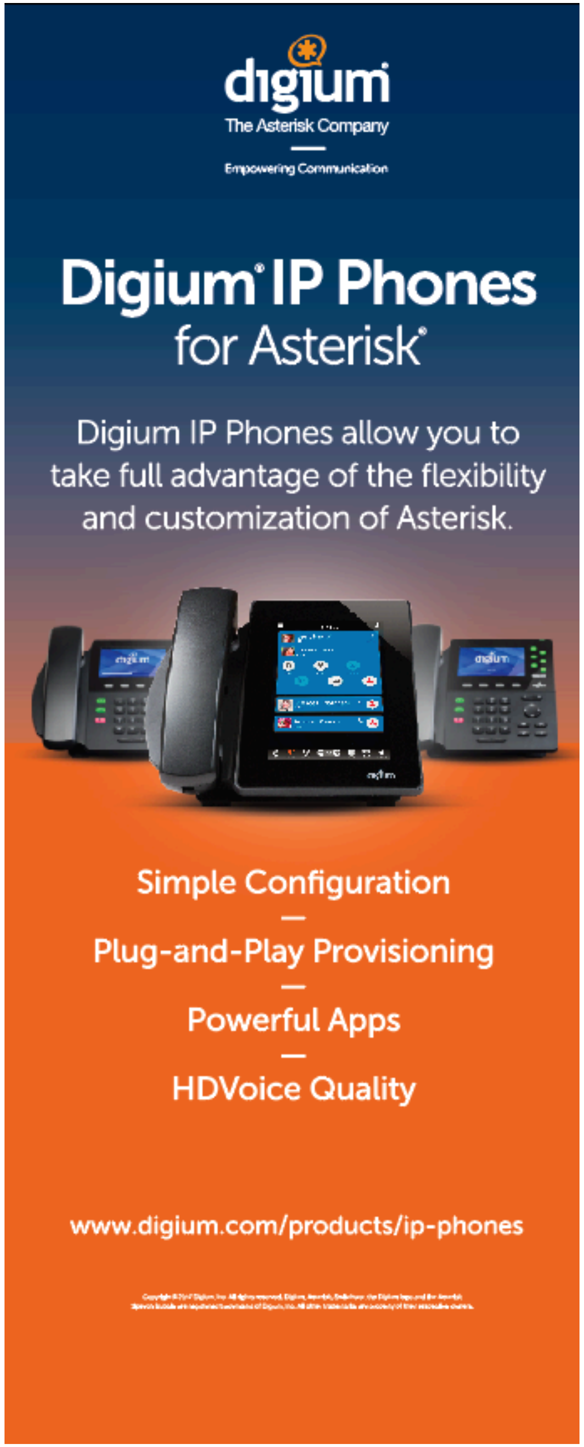

Digium Phones

- The only phones designed specifically with Asterisk in mind
- Standard SIP, but with extra goodies when used with a properly configured Asterisk
- Buy Digium to help the Asterisk project

We are all on the same side!

- We are all part of something bigger:
  Open Source Communications Community
- Asterisk
- FreeSWITCH
- OpenSIPS
- Kamailio
- And others…

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You can have everything in life you want, if you will just help enough other people get what they want.

Zig Ziglar

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We have received so much. What can we give?

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