

# **OpenSIPS Summit** 11<sup>th</sup> of October 2013, Atlanta, USA

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## **OpenSIPS Summit - Keynotes**

Bogdan-Andrei Iancu Founder OpenSIPS Project OpenSIPS Solutions

October 11th

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# **About OpenSIPS**

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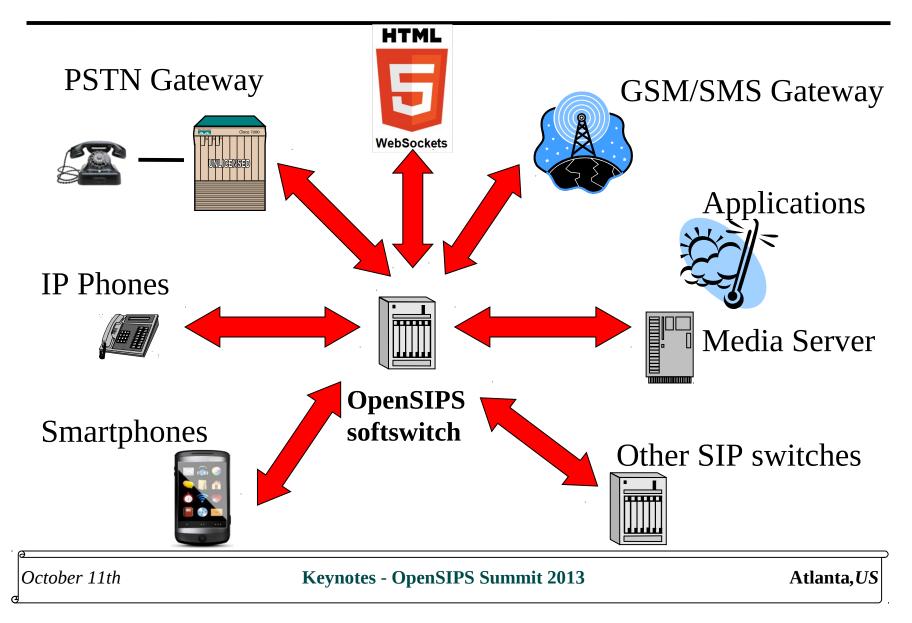


### What OpenSIPS is ?

- primarily a SIP proxy
- multi purpose proxy
- doing voice, video, presence, IM and other
- signaling only, no media



### **OpenSIPS**







### Why OpenSIPS ?

- High throughput (calls, cps, registrations)
- Flexibility for routing and integration
- Effective application building (120 modules)





### **OpenSIPS project**

- Open Source, GPL
- Tens of contributions
- Community of thousands
- Tens of thousands of deployments (shodanhq.com)





## **OpenSIPS knowledge transfer**

- Documentation & manuals
- Advanced tutorials
- Webiners
- Mailing list, IRC channel
- Ebootcamp training
- Certification program





#### **Usage scenarios**

- Traffic / load intensive (cps, parallel calls)
- Complex logic (routing / integration)





### **Load intensive**

- Simple logic, less I/O, high traffic
- Ideal for scenarios like SBCs, Trunking, Wholesaling,

Load-Balancers, Front-ends, Registrar and other



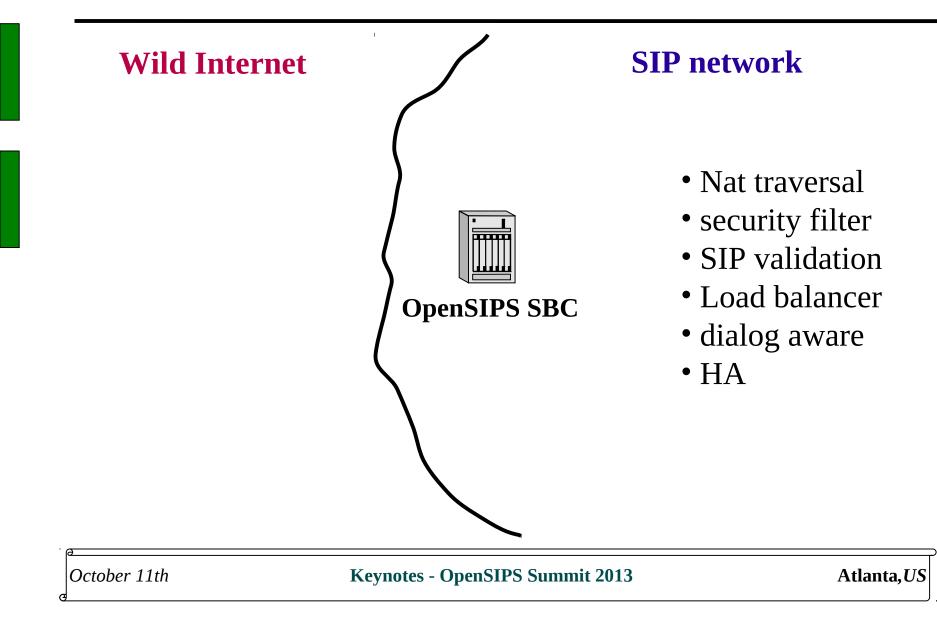


### **Logic intensive**

- Complex routing logic, interaction with external entities, intensive I/O (SQL, noSQL, HTTP, LDAP)
- Multiple interfaces available : MI, Events, BIN, REST
- Ideal for scenarios like Residential, Hosted/Virtual

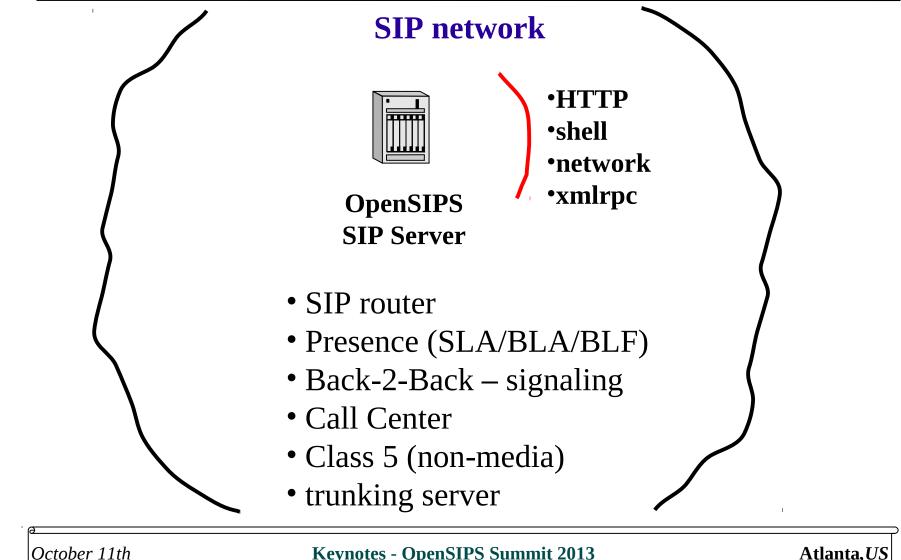
PBXes





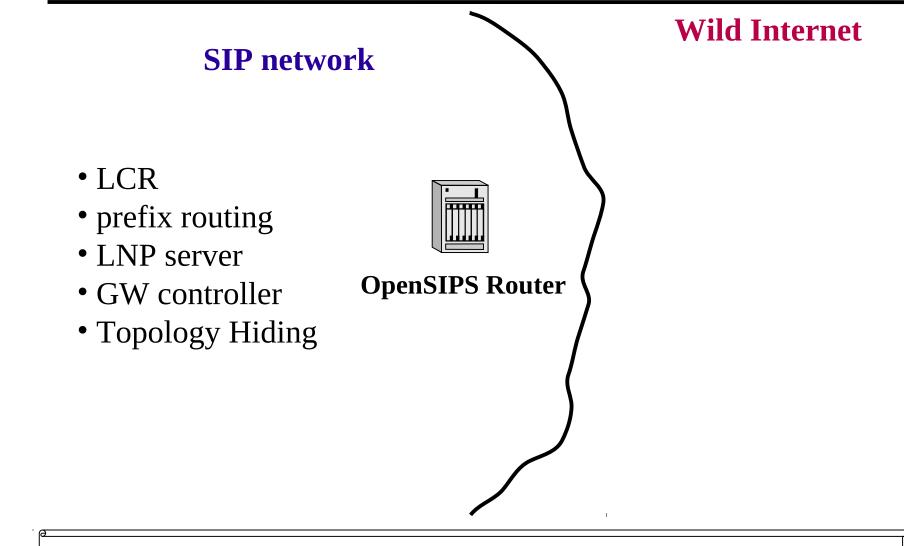


## **OpenSIPS** – where?



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# A bit of History

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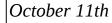
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# 5 years from the first OpenSIPS release 4<sup>th</sup> of August 2008 – OpenSIPS 1.4.0



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5th ANNIVERSARY



### Code

- APT repository, thanks to Dynamic Packet
- YUM repository, thanks to Nick Altmann
- Migration from SVN to GIT
- Migration from SourceForge to GitHub





#### Releases

- New release policy
- Release cycle
- LTS releases
- Even more open to contributions and involvement



Last year

#### Foundation

- OpenSIPS Software Foundation
- Open is not only about the code
- OpenSIPS Summit is a result of the OSF



Last year

#### **Documentation**

- Re-work of the online documentation
- Even more advanced tutorials
- More examples and full scripts
- Generating scripts from templates





### **Starting the Summits**

- By OpenSIPS project
- For the OpenSIPS community
- Updates and news on the project
- Presenting real life cases



# **Present days**

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### **1.10 major release**

- 1.10 stable release on 10<sup>th</sup> of September
- 1.10 it is not an LTS, 1.11 will be !
- 1.9 to be still maintain for ~ 6 months (until 1.11)
- As LTS, 1.8 still have ~ one year to go



## New in 1.10

### **Easy scripting**

- New MATH module
- New transformation (hexa)
- Goes into combination with named flags, routes with

parameters, script tracing



## **TCP support**

- Asynchronous read/write on TCP connections
- Optimized for large number of active connections
- Better detection of TCP based attacks



### Interfacing

- REST client new module
- XMLRPC new MI module
- USRLOC events on AORs
- REGISTRAR per OAR extra data



New in 1.10

## **NoSQL support**

- SQL to noSQL wrapping module
- Bulk removal on Local Cache

### WebSockets

- Support for routing WS and WSS transport protocol
- SIP WEB client on opensips.org service



## **SCA support**

- Shared Call Appearance support as defined by
- BroadWorks SIP Access Side Extensions Interface
- Integrate with dialog module to automatically generate

the Call-Info data

• Self sufficient SCA implementation (generate and

distribute data)



## **Dialog replication**

- New Binary INternal Interface (BIN) for inter OpenSIPS communication
- Dialog module replicates in realtime the dialogs and

their state to other OpenSIPS instances

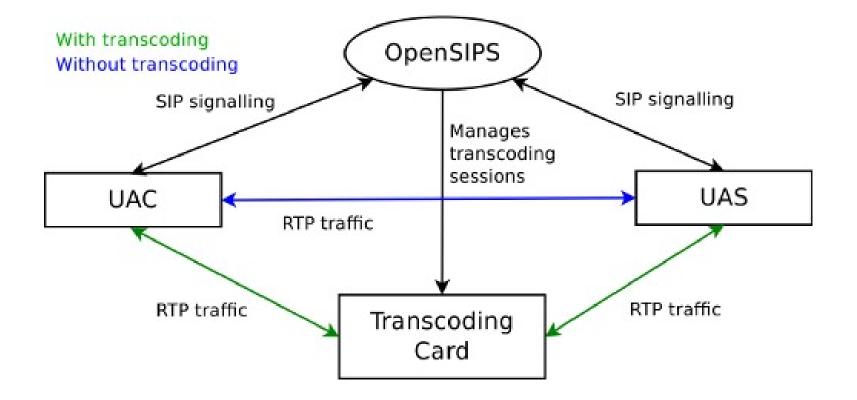
• Full dialog recovery on other OpenSIPS instances



### **Sangoma transcoding**

- Drive (remotely) Sangoma transcoding D cards
- Signaling stay in OpenSIPS, RTP on the cards
- Multiple cards controlled by same OpenSIP instance
- Control over the codec selection too
- The transcoding is SIP transparently done !







# **Future plans**

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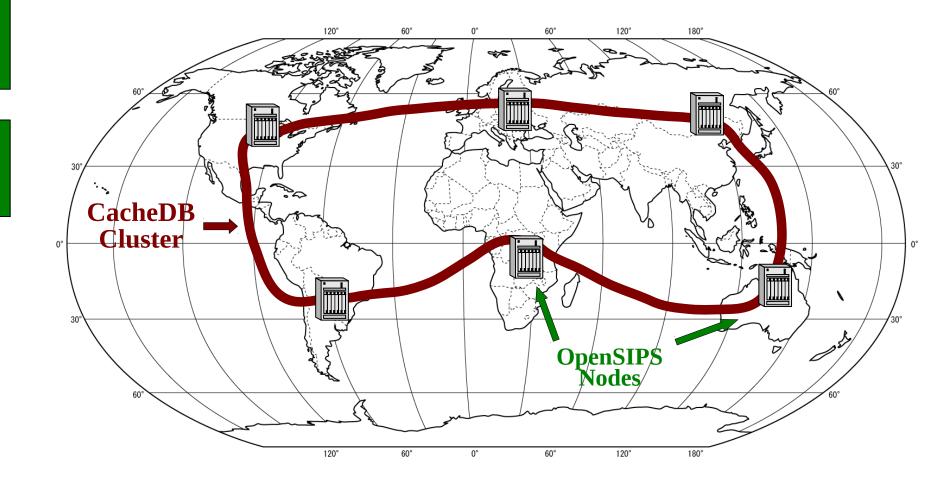


### **Main direction**

- Distribution / OpenSIPS clustering
- Integration with external apps
- Transport / Topology improvements



### **OpenSIPS Cluster**



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Future

### **Distribution / Clustering**

- Extend noSQL support / backends
- Extend BIN interface for more replication

(registrations, transactions, etc)

• Define standards for distributes dialog or registration support





#### Integration

• More Events to make easier integration with external

apps

• Extend backends for MI or Events – stream oriented,

**REST** oriented.

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### **Transport protocols**

- API and module to dynamically provision the TCP/TLS connections (rate, bandwidth, re-usage policy, TCP parameters, SSL certificates)
- Cloud / Amazon better support more control over

advertising or fake interfaces (to adapt to



### **Call Center**

- Call queuing in OpenSIPS (signaling only)
- Inbound call center multiple queues, sets of agents,

### skills, priorities

- Integration with Media Server via the B2BUA engine
- To be used in combination with DID (DR module),

#### external IVRs, external dialers.



#### Thank you for your attention You can find out more at www.opensips.org bogdan@opensips.org www.opensips-solutions.com

**Questions are welcome** 

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