

The 6th edition of Kamailio World Conference







































Agenda

- Day One
- May 15 Conference Sessions
 - 09:00 10:30 [Spektrum] Presentations
 - 10:30 11:00 [Atrium] Coffee Break
 - 11:00 12:30 [Spektrum] Presentations
 - 12:30 13:30 [Atrium] Lunch
 - 13:30 15:30 [Spektrum] Presentations
 - 15:30 16:00 [Atrium] Coffee Break
 - 16:00 18:45 [Spektrum] Presentations
 - May 15 Social Event Cocktail Party Drinks Finger Food
 - 19:00 21:00 [Atrium]
 - **Spektrum** the conference room
 - Atrium the expo area (just outside of the conference room)
 - **Dom** the catering area (next to expo area)

Day Two

- May 16 Conference Sessions
 - 09:00 10:30 [Spektrum] Presentations
 - 10:30 11:00 [Atrium] Coffee Break
 - 11:00 12:30 [Spektrum] Presentations
 - 12:30 13:30 [Atrium] Lunch
 - 13:30 15:30 [Spektrum] Presentations
 - 15:30 16:00 [Atrium] Coffee Break
 - 16:00 18:00 [Spektrum] Presentations



Interactive Sessions

- Pre-Conference Day
- May 14 Workshops (done yesterday)
 - [Spektrum] Victor Seva Kamailio Ask Me Anything
 - Conference Day One
 - May 15
 - 17:50 18:40 [Spektrum] Randy Resnick VUC Visions
 - Conference Day Two
 - May 16
 - 11:45 12:30 [Spektrum] James Body Dangerous Demos

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WIFI

- Network Name (ESSID): FhG-Guests or FhG-Feranstaltung
- □ Open a browser, try to access a web page:
 - username: FraunhoferForum
 - password: ... see the flyers ...
- □ Flyers with these details are on the back of the room
 - if needed, ask the registration desk for support



Registration VAT

** According to European Union regulations, VAT at the location of the event must be charged to all participants. The 19% German VAT is already included in the price.

Participants with a valid EU VAT number can claim the VAT back in their country of origin, each local tax authority should provide an electronic portal for this operation.

Non-European taxable persons can still reclaim the German VAT using the paper-based procedure.

http://ec.europa.eu/taxation_customs/taxation/vat/how_vat_works/vat_on_services/index_en.htm#supply_services

you can claim back 19% from your country tax authority



Social Networking

- Twitter hashtag: #KamailioWorld
- Twitter Accounts
 - @KamailioWorld
 - @kamailio
- Facebook kamailio (page)
 - https://www.facebook.com/Kamailio
- Google+ kamailio (page)
 - https://plus.google.com/114984922071338017631
- LinkedIn kamailio (group)
 - https://www.linkedin.com/groups/kamailio-145924/about



Live Video Stream

http://live.pascom.net







































Last Year In Review

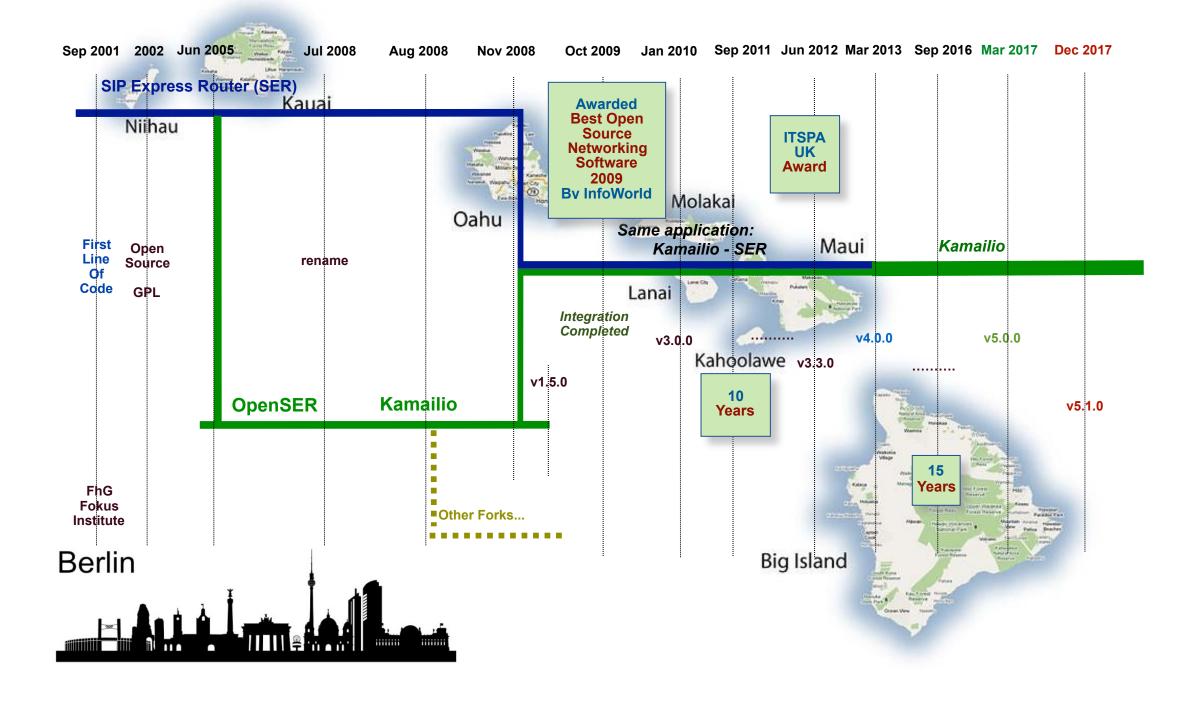








Let's Speak SIP = E Kama'ilio SIP



Kamailio Major Releases

* 3.0.x (2010)

```
* 0.8.x (2002)
* 0.9.x (2004)
```

* 0.7.x (2001)

* 3.1.x (2010) * 3.2.x (2011) * 1.0.x (2005) * 3.3.x (2012) * 1.1.x (2006) * 4.0.x (2013) * 1.2.x (2007) * 4.1.x (2013) * 1.3.x (2007) * 4.2.x (2014) * 1.4.x (2008) * 4.3.x (2015) * 1.5.x (2009) * 4.4.x (2016)

* 5.0.x (2017)

* 5.1.x (2017)

* 5.2.x-dev (2018)

New Modules



acc_diameter
app_sqlang
call_obj
evrexec
ims_diameter_server
keepalive
phonenum



sipdump topos_redis ***

acc_json
app_python3
db_redis
pua_json



New Features

Kamailio Embedded Interface (KEMI)

- Lot of exports
- Common modules should be close to 100%
- Still to do: IMS and Diameter extensions
- New scripting languages: JavaScript, Squirrel Language and Python3
- Script reload support for Python and Python3

Enhancements

- Lots of improvements to IMS/VoLTE extensions
- RTP recording and transcoding capabilities to rtpengine
- Latency statistics and routing for dispatcher (load balancer)
- Topology stripping (topos module)
- Many Redis-related additions, including cluster support, pipeline and backend for topos
- HEP3 (sipcapture) packet forwarding sip_capture_forward("uri") sip_capture_forward("sip:127.0.0.1:5090")
- Transparent SIP proxy (anycast)
- RPM packaging in better shape



Transparent SIP Proxy - Anycast

Expectations

- Forward without adding/removing headers required in SIP specifications
- Mainly about to not alter Via stack
 - Do not add for SIP request
 - Do not remove for SIP response
- Set source IP (\$si) and local socket (\$Ri)
- It was there for very long time **send(...)** and the variants

set source address("udp:10.0.0.100:5080");

Easy with deployments running on a single socket

Corex module

- Added some helper functions to help on deployments with multiple network interfaces
- https://kamailio.org/docs/modules/devel/modules/corex.html

Kamailio Ecosystem

Kamailio Unit Testing Framework

- Leverage Docker for isolated execution
- Relies on common cli tools like sipsak, sipp, pjsua
- https://github.com/kamailio/kamailio-tests
- Check the workshop by Giacomo Vacca

Organization

- Markus Monka in the Management Team in place of Marcus Hunger
- New: Kamailio Admin Team daily operations and administration for Kamailio project 14 people

Twitter

• We were assigned **@kamailio** handle



Next For Kamailio

development

- no major features missing
- but there will be new stuff as always
- anyhow expect polishing and improvements to no-sql based data replication, distributed message queue (dmq), presence, ims/volte, ...
- next major release on autumn/winter 2018
- more efforts on continuous integration
- finalize the architecture for the unit testing framework and add units
- documentation for KEMI functions

eco-systems

- get admin team rolling
- upgrades to the infrastructure
- events world wide (astricon, cluecon, fosdem, ...)
- Kamailio World Conference 2019



Kamailio Business Directory

Anyone offering services related to Kamailio can get listed there with:

- name and contact coordinates
- short description

https://www.kamailio.org/w/business-directory/

Home Features Download Business Directory Management Contact Us

Business Directory

This is a list of companies and individuals offering commercial products or services based on Kamailio or SIP Express Router (SER). The list is manged by Kamailio project, if you want to apply to be listed check first the Business Directory Rules. Also, check our Business web page for other details regarding business environment related to this project.

Disclaimer: whilst we do the best to select serious applications, Kamailio and SER projects, along

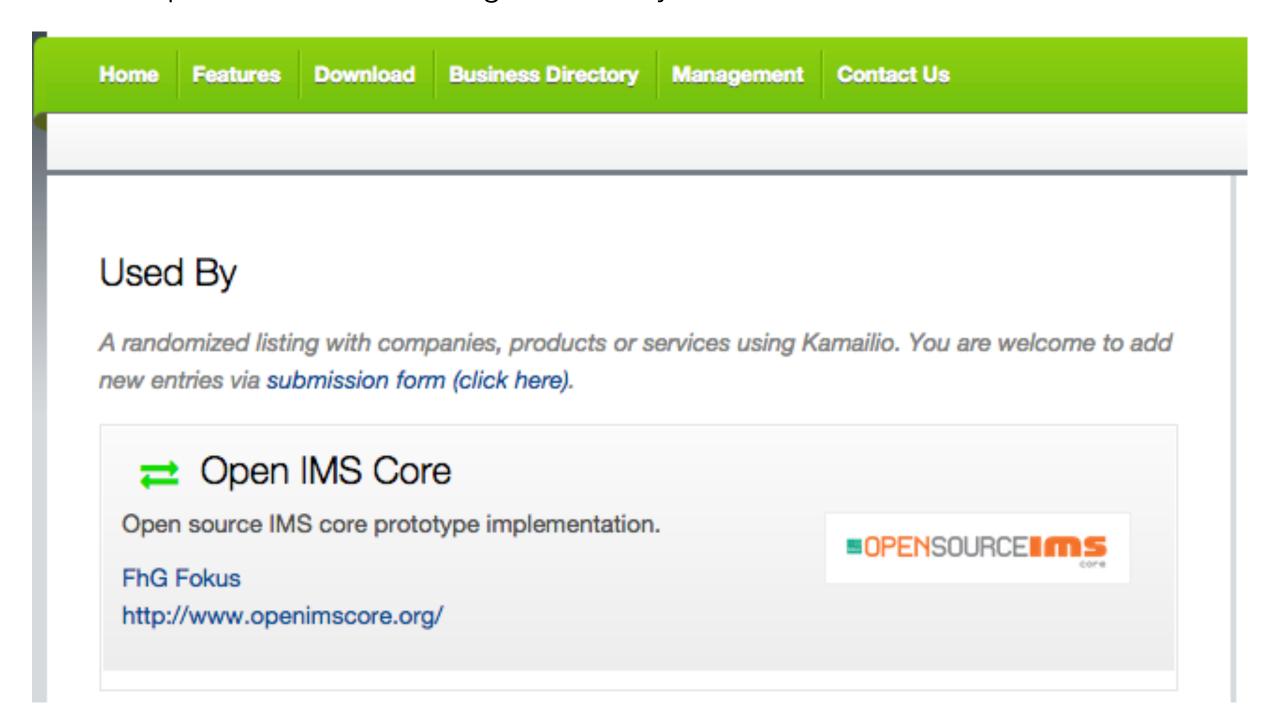


Kamailio Used-By Directory

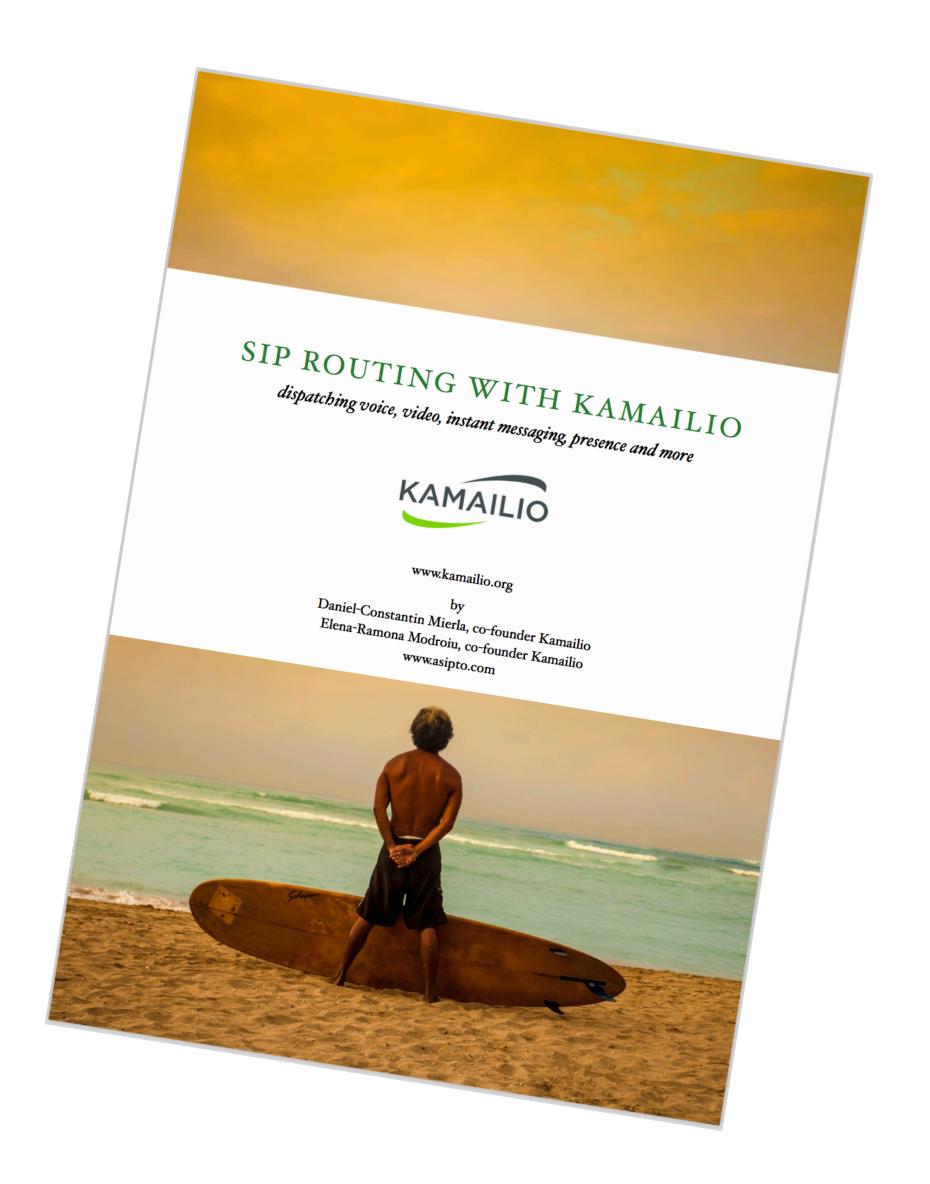
Anyone using Kamailio can get listed there with:

- name and contact coordinates
- short description
- logo

https://www.kamailio.org/w/used-by/







https://www.asipto.com/sw/kamailio-admin-book/







































Thank You!







Enjoy the event!

Elena-Ramona Modroiu Daniel-Constantin Mierla www.asipto.com