

# 10 Years of SER

## Kamailio & IMS

- What is it all about?
- Planned improvements
- Current Status
- Outlook

# Let's look back to the 90's:

- VoIP is pretty cool
- IMS is pretty cool
  - 3GPP Release 99



# ...but you could still use the backdoor:

Voice could still be circuit switched.



# And many operators were lazy...

...and kept using circuit switched for voice.



# In modern networks there is no backdoor.

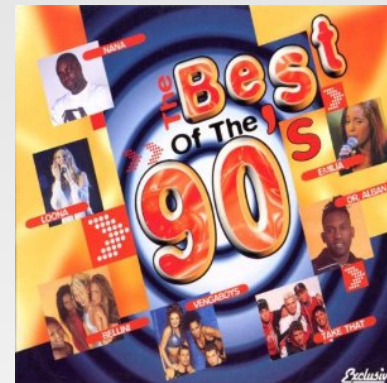
If you want Voice, you must have IP.

**EVERYTHING** is IP!



# And now?

- VoIP & SIP is still pretty cool...
  - ..but quite often not really standardized.
- IMS was (back in the 90's)  
a pretty cool concept



IMS is still pretty cool!

# The OpenIMS-Core is cool, but...

- ...all functionality is in few modules
- ...does not incorporate improvements made to SER & Kamailio
- ...has duplicate code in OpenIMS and Kamailio/SER, examples:
  - Dialog management
  - Presence
  - Registry

→ Great for evaluating/testing IMS!



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# Kamailio & OpenIMS-Core: Let's bring great stuff together!

We rebuild the OpenIMS-Core and...

- ...use Kamailio's Dialog Module
- ...use Kamailio's Presence Infrastructure
- ...use other Kamailio modules
- ...enhance the modules, where necessary
- ...make it modular
  - So they can be used outside IMS, too!
- ...add new Features!



# Already implemented

- Support for RFC3680 (Reg-Event)
- Custom variables in the dialog module
- New functions in the dialog module API
- RTP Activity Detection (RTPProxy-Module)

# What are we working on now?

- Various functions done in C-Code in the OpenIMS-core can be done in Config in SER
  - Partially done
- OpenIMS C-Diameter Peer
  - Add docs to the OpenIMS C-Diameter Peer
  - Add/Merge the C-Diameter-Peer to SR repository
- Minor adaptations to the SER-Core
  - e.g. Support for URN-URI's, available in our branch



# What are we working on now? (2)

- New Modules for Diameter-Interfaces
  - ...are implemented as we speak
- Limited to "pure" Diameter functionality
  - based on the C-Diameter Peer (CDP)-Module and
  - Kamailio's Modules (like Dialog, RTPProxy, etc).

# What's next?

IMS Extensions will be ready ~Summer 2012

Surrounding Systems:

- MMTel Application-Server?
- Open-Source HSS?
- Policy Control?
- Charging?
- IPTV or Presence Application-Server?



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# That's all folks!

Questions?

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