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!

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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!

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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?
Questions?

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