OpenSER Summit 2006

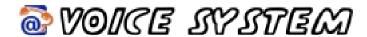## *Daniel-Constantin Mierla*
Co-Founder OpenSER Project

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- ## OpenSER co-founders
  - **Bogdan-Andrei Iancu -** *Voice System SRL*
  - **Daniel-Constantin Mierla –** *Voice System SRL*
  - **Elena-Ramona Modroiu –** *Voice System SRL*

- ## OpenSER board members
  - **Adrian Georgescu –** *AG Projects*
  - **Cesc Santasusana –** *Thales Communications*
  - **Klaus Darilion –** *Enum.at*

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  - **Xavier Casajoana - Voztelecom**
  - **Benjamin Wolf –** *Basis Audionet*
  - **Gines Gomes –** *Voztelecom*
  - **James Body –** *Truphone*

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  - **James Tagg –** *Truphone*
  - **Andreas Granig –** *Inode/UPC Austria*
  - **Joachim Fabini – TU Wien**
  - **Dean Elwood –** *VoIPUser.org*
  - **Elias Baixas - Voztelecom**
  - **Olle E. Johansson – Edvina**
  - **Phillipe Sultan – INRIA**
  - **Robert Schischka – Enum.at**
  - **Jesus Rodriguez –** *Voztelecom*
  - **Tjardick Van der Kraan –** *VoIPUser.org*
  - **Adam Linford –** *Oralnet*

Tuesday, November 7, 15:45 – 17:00

BOF: OpenSER - for secure and performant VoIP environments

exhibition area theater

* Hosted services
* ENUM and carrier grade
* scalability and distribution
* 3/4G and fixed mobile convergence
* peering with heterogeneous networks

Moderator: *Xavier Casajoana, CEO, Voztelecom*
Panelists:
* *Bogdan-Andrei Iancu - CEO, Voice System*
* *Carl Lyons - Marketing Director, Truphone*
* *Robert Schischka - CEO, Enum.at*
* *Jesus Rodriguez - CTO, Voztelecom*
* *Daniel-Constantin Mierla - Co-Founder, OpenSER Project*

Wednesday, November 8, 2006

09:00-11:15 Morning session

  09:00 – 10:00 Summit Opening

  Agenda Overview

  OpenSER History

  Daniel-Constantin Mierla - co-founder and board member

  10:00 – 11:15 - Industry Perspective

  "SIP Application Servers & weSIP for OpenSER"

  Gines Gomez - VozTelecom Chief Innovation Officer

  "High availability environments with geographic redundancy"

  Benjamin Wolf - Basis AudioNet Project Director

  "GetTru - bring VoIP to your mobile"

  James Body - Truphone Director-Networks

  "VoIPUser - community driven VoIP services"

  Dean Elwood - VoIPUser co-founder

15:00-18:00 Afternoon session

15:00 – 16:45 - Industry Perspective

"Practical peering with OpenSER"
Klaus Darilion - Enum.at

"OpenSER-based IMS. Experiences and Perspectives"
Joachim Fabini - ITB, Vienna University of Technology

"Managing a Highly Available Voice-over-IP System"
Andreas Granig - Inode/UPC Austria Core Development

"Development of convergent J2EE applications for OpenSER"
Elias Baixas - VozTelecom Innovation Engineer

"INRIA - VoIP deployment notes"
Philippe Sultan - INRIA Network Architect

"The challenge of service diversity"
Bogdan-Andrei Iancu - Voice System CEO

16:45 – 18:00 - OpenSER Roadmap – open discussion

Adrian Georgescu
Andreas Granig
Bogdan-Andrei Iancu
Cesc Santasusana
Daniel-Constantin Mierla
Ramona-Elena Modroiu

OpenSER History

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- **Project** *"SIP Express Router"* **started at FhG FOKUS Institute, Berlin, Germany**
- **IST European Project** *"Evolute"*
- **main target: SIP routing**
- **core development team:**
  - **Andrei Pelinescu-Onciul**
  - **Bogdan-Andrei Iancu**
  - **Daniel-Constantin Mierla**
  - **Jan Janak**
  - **Jiri Kuthan**
- **first modules**
  - **sl, tm, maxfwd, rr, mysql ....**

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- **first contributors**
  - **Juha Heinanen**
    - **radius, enum, domain, uri**
  - **Greg Fausak**
    - **postgres**
  - **Maxim Sobolev**
    - **nathelper**
  - **Adrian Georgescu**
    - **mediaproxy**
  - **Elena-Ramona Modroiu**
    - **xlog, diameter, avpops, speeddial**
  - **Miklos Tirpak**
    - **permissions**

- **spreading world wide**
  - **Voztelecom**
  - **Free World Dialup**
  - **SipPhone**
  - **Enum.at**
  - **SipGate**
  - **Gossiptel**
  - **VoIPUser**
- **new features**
  - **TCP**
  - **Enum**
  - **Jabber gateway**
  - **SMS gateway**
- **visionary improvement with AVP and avpops**
  - **significant flexibility toward VoIP application creation**

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- **June 14, first OpenSER release, v0.9.4**
  - bunch of new features
    - database aliases
    - extra accounting
    - uac functionality: caller identity hiding, authentication on server
    - uac redirect handling on server
    - avpops rich features
    - speed dial
    - intelligent nat pinging with OPTIONS requests
    - updated documentation
  - project hosted on sourceforge.net
  - web forum hosted by voipuser.org
  - project's web site: http://www.openser.org
  - users' mailing list: users@openser.org
  - developers' mailing list: devel@openser.org

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  - **Bogdan-Andrei Iancu**
  - **Cesc Santasusana**
  - **Daniel-Constantin Mierla**
  - **Elena-Ramona Modroiu**
  - **Juha Heinanen**
  - **Klaus Darilion**

- ## October 28, OpenSER v1.0.0
  - **TLS support**
  - **pseudo-variable concept and implementation**
  - **switch statement**
  - **return variables and clean exit of processing logic**
  - **multi-leg accounting**
  - **load balancing**
  - **least cost routing**
  - **arithmetic operations**
- ## OpenSER adopted in FreeBSD ports
- ## Documentation and tutorials
  - **OpenSER core cookbook**
  - **OpenSER Dokuwiki**
  - **voip-info.org**

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- **July 10, OpenSER v1.1.0**
  - lot of new feature toward scalability
  - cacheless user location
  - PATH extenstion
  - OSP support
  - statistics support
  - support for common database types via unixodbc
  - dialog (call stateful) support
  - major improvements to TLS and TCP
  - RFC compliant registrar
  - DNS NAPTR support
  - failover support in load balancing module
  - included in official Debian distribution
- **Real time and seamless integration with Asterisk**
  - full VoIP platform, plugging in media services based on Asterisk can be done sharing same database

- **new features in development version**
    - **presence server following latest IETF RFCs**
        - **rich presence PIDF/RPID**
        - **XCAP authorization**
    - **transparent gateways for XMPP (Jabber, Google Talk)**
        - **on the fly IM translation**
        - **signaling for presence and video are coming**
    - **session timer management**
    - **database fetch support**
        - **OpenSER can load millions on records in seconds**
    - **connexion pool and fetch support for postgres**
    - **new management interface**
        - **more flexibility in transport layer: fifo and unix sockets**
        - **next are xmlrpc, http and soap**
- **more at the end ... in OpenSER roadmap ...**

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- **really new - collaboration environment and development**
  - **project oriented to stability and feature**
  - **open to valuable contributions**
  - **strictly following the standards and usability, not private interests**
  - **management board supervise fairness of project's evolution**
- **release policy**
  - **6 to 8 months based releasing**
    - **4-6 months development**
    - **~2 months extensive testing**
    - **allow easy upgrade process**
- **important role given to community and documentation**

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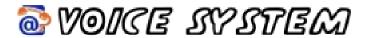**2005**

2006

- **June 14, One year OpenSER**
  - over 1000 community members on mailing lists
  - accurate mailing list answering
  - high quality web forum discussions
  - over 60 contributions worldwide
  - easy VoIP service creation
  - seamless integration with Asterisk – most mature and feature-rich media server and ippbx
  - hundreds of deployments worldwide
    - check our sponsors' web sites
    - listen today's presentations
    - or just google it
  - word wide recognition of OpenSER in VoIP summits and events as one of most mature and flexible SIP servers
- significant contribution to documentation from community: opencer.org's dokuwiki and voip-info.org are leading so far. "OpenSER Getting Started" under development by Adam Linford, Oralnet UK

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16:45 - 18:00

OpenSER Roadmap

Open Discussion

- **Presence and SIMPLE**

- **Convergence**

- **Security**

- **Geographic distribution**

- **High availability**

- **Media services integration**

- **full presence support, not only for SIP entities**

- **instant messaging conferencing**

- **XCAP server**

- **resource lists**

- **... lot of other extensions ongoing at IETF**

- **peering heterogeneous networks**

- **focus on XMPP (Jabber/GoogleTalk)**

- **facilitate fixed mobile convergence**

- **IM already there**

- **coming: presence and voice**

- **TLS**

- **interdomain trust relationships**

- **peering ACL**

- **SPIT detection**

- **more scaling functionality to allow sizing up**

- **easier integration with other components used for load balancing and replication**

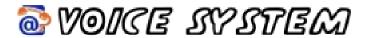- **look at featured offered by storage systems**

Your suggestions are more than welcome!!!

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