

OpenSER and the OpenSER project

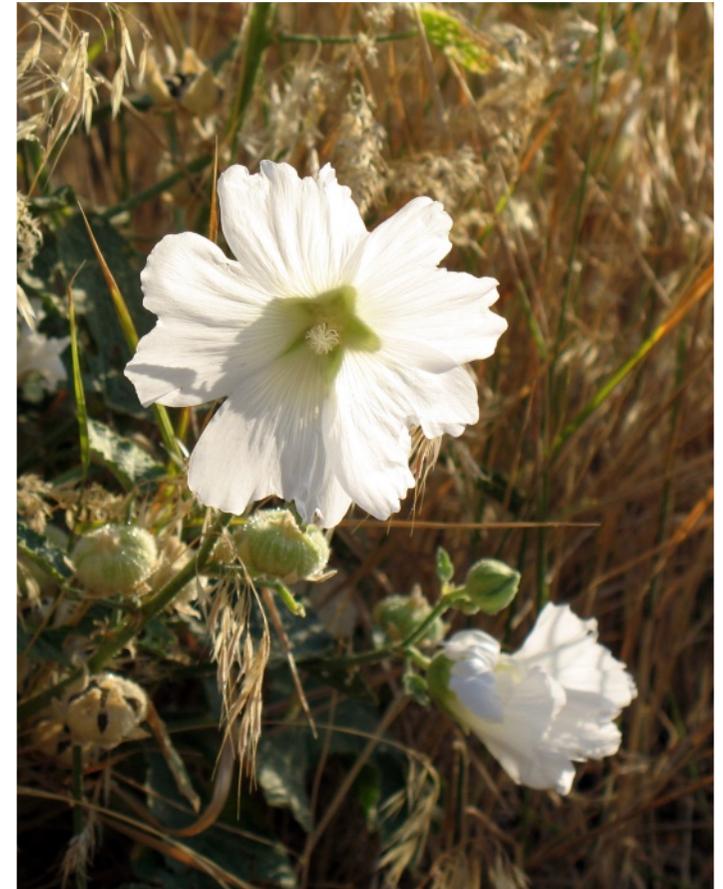
Welcome!

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OpenSER project

1&1 Internet AG

Berlin Tekelec, 28.5.2008



Outline

- 1. OpenSER and 1&1*
- 2. characteristics of the OpenSER project*
- 3. new stuff in the 1.4.0 release*
- 4. comparison of the SER and OpenSER project*
- 5. possible scenarios for a consolidation*

OpenSER and 1&1

the building block of our VoIP infrastructure

provides core services

proxy and registrar

balancer, router

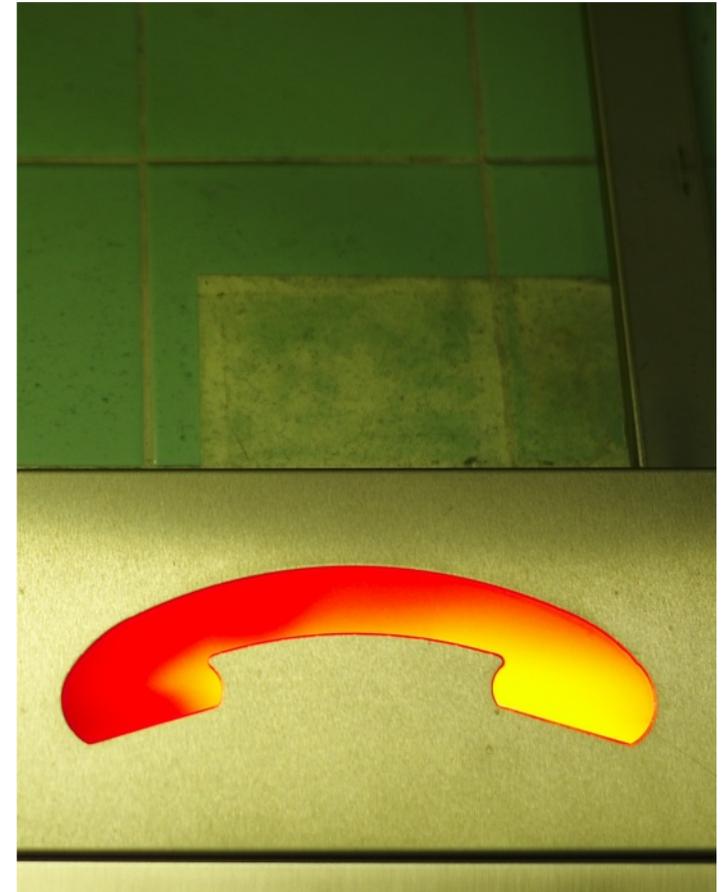
applikation server

mostly opensource, but with a few proprietary extensions

Numbers

1 billion minutes/month completed

2 million customers on the platform



Characteristics of the OpenSER project

listen to your users

be available on the communication channels

fix bugs and apply patches in time, make it easy to participate

organize community events

open project

contributions are welcome

even if only a small number of users need them

decisions in public with low overhead

get the code out

keep the trunk in a good shape

reliable and regular releases, short cycle

be standard compliant and performant

but provide the flexibility to work around broken devices

whats new in 1.4.0

1.3.0 was released on 13 Dec. 2008

maintenance release 1.3.2 two weeks ago

code freeze for 1.4.0 starts next week

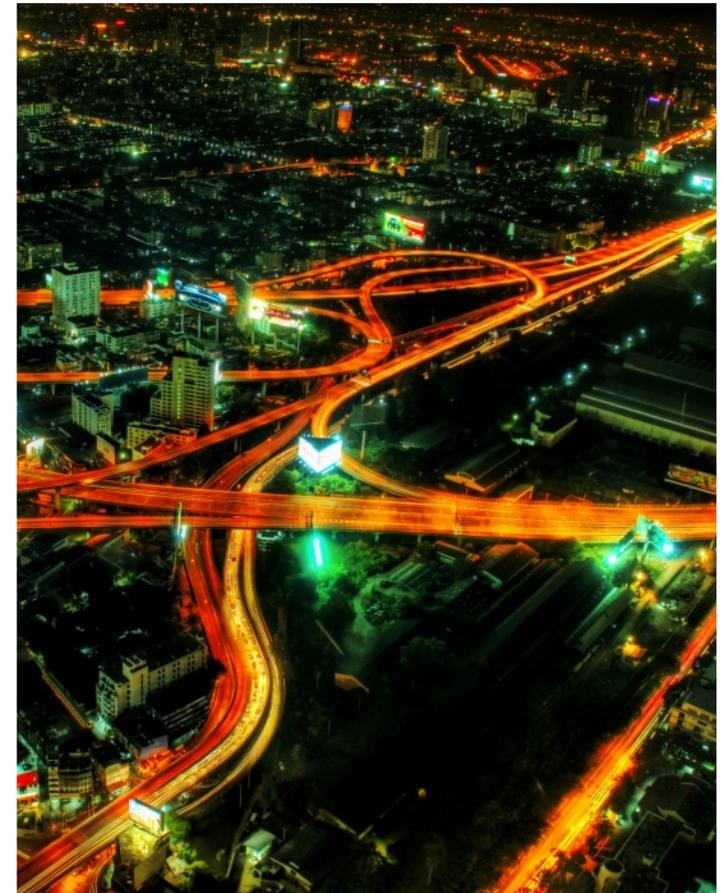
one month, release in June

refactoring of core API and modules

test and documentation

new modules added

feature additions to existing modules



Refactoring



DB API

*extensive cleanup in drivers
common functionality was integrated in the core
interfaces uses now the 'str' type*

Core

*allow more than two module parameters
SDP parser, outbound CRLF ping-pong
internal API for fixup functions*

Modules

*cleanup, use more core APIs now
provide more pseudo-variable support
structural changes for more flexibility and
maintainability*

Documentation and Tests

user need to find and understand features, and they should work

recent achievements

OpenSER book

openser development guide

migration of existing documentation to docbook-xml

add doxygen to existing code

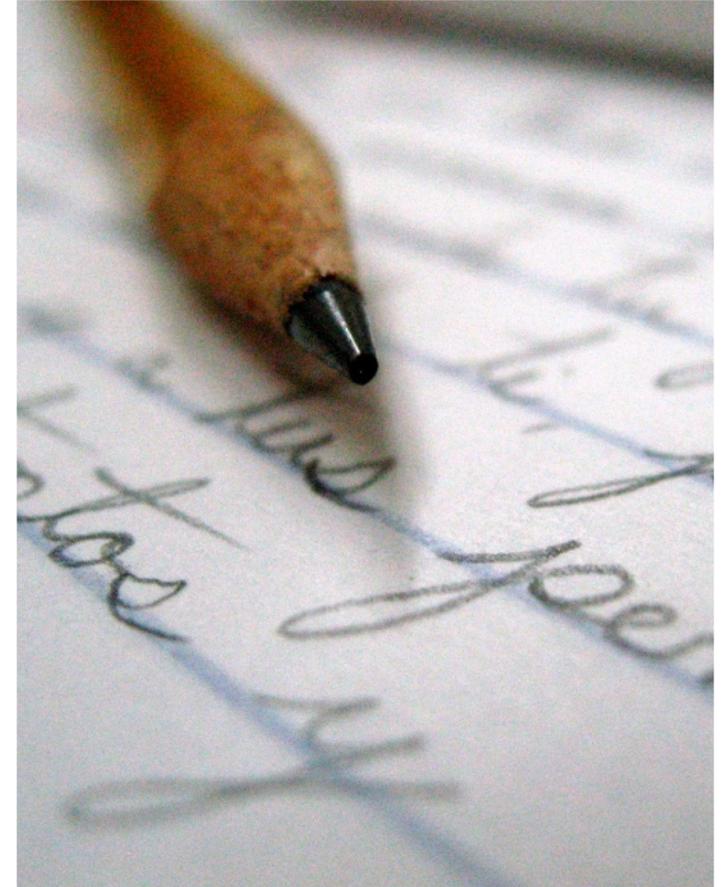
test suite

planned to have complete coverage for all modules

now over 30 tests available

mostly database related

regular rebuild of the trunk to catch problems early



New modules and feature additions

carrieroute module with new failure route support

*prevent the balancing of request to failing GWs again
not necessary anymore to do this in the script*

new database driver for oracle

new userblacklist module

easy interface for user specific and global blacklists

new ratelimit module

ported from SER, with OpenIMS enhancements

new nat_traversal module

generic functionality for NAT keep alive

new feature in cfgutils

debug functionality ported from SER, shared PV support, config file hashing

Comparision of the SER and OpenSER project

why and how

interested in size of the project, community and pace of the development

only public visible informations evaluated over one year period (April 2007 to March 2008)

Repository activity

Commits SER/OpenSER = 45%

Changed LOCs SER/OpenSER = 31%

Mailinglist Activity

Developer List SER/OpenSER = 39%

User List SER/OpenSER = 34%

Public Releases

SER = 0 Major, 0 Minor

OpenSER = 1 Major, 5 Minor

Scenarios for a consolidation

why

*duplication of effort, increasing competition from other projects/ companies
there is already code flowing from SER to OpenSER
split of the userbase and developer*

how

- 1) merge of OpenSER into SER*
- 2) merge of SER and OpenSER into a new project*
- 3) merge of SER into OpenSER*

success chances

- 1) is not reasonable because of different activity levels*
- 2) impossible as important developers would oppose*
- 3) only meaningful option which has some support*

OpenSER is open for contributions

Thank you very much!

Contact and further informations:

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OpenSER user and developer mailing lists

Web: www.openser.org

IRC: #openser on freenode

Pictures:

slide 3: Bill Liao, <http://www.flickr.com/people/liao/>

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