

# *OpenGroupware*

## *Phoenix from the ashes*

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# *Agenda*

- ⇒ Introduction and History
- ⇒ Porting to GNUstep
- ⇒ New features
- ⇒ Short demo

# *OpenGroupware*

- ⇒ Shared calendar, contacts
- ⇒ Web mail interface
- ⇒ Tasks
- ⇒ Database back-end
- ⇒ LDAP or database authentication
- ⇒ Project management
- ⇒ Scripting interface
- ⇒ WebDAV, GroupDAV, ...

# *History*

- Initially developed by Skyrix as SKYRIX5
- Roots in the Mid 90s, “LSOffice” developed by MDLink GmbH
- Released as OpenSource (GPL/LGPL) in 2003, but still parts closed source (snsd)
- Based on gnustep-make 1.X
- Foundation library used was libFoundation
- SOPE application server

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# *Porting*

- ➔ From gnustep-make 1.X to 2.X
- ➔ From libFoundaton to gnustep-base
- ➔ Now based on the SOPE fork from Inverse.ca (the main company behind SOGo)
- ➔ Porting actually started about 3 years ago in the gsmake2 branch in the old Open-Groupware SVN

# *Getting serious*

- ⇒ Old branch was forked and moved to SourceForge beginning last year  
[www.sf.net/projects/opengroupware](http://www.sf.net/projects/opengroupware)
- ⇒ First started with cleaning up the makefiles from old cruft, getting them nicely in shape with gnustep-make 2.x
- ⇒ Build against gnustep-base and SOPE from Inverse

# ***SOPE and gnustep-make2***

- ➔ Initially, SOPE/SOGo from Inverse was also based on gnustep-make 1.x and older gnustep-base releases
- ➔ Those first had to be ported to gs-make2 and made work with actual gnustep-base releases
- ➔ This took a while, but finally it worked and the Makefiles were in a good shape so that it got accepted upstream



# *Porting OGo initial steps*

- ⇒ Getting the Makefiles updated for gnustep  
make 2.x
- ⇒ Build against gnustep-base and new SOPE
  - A couple of patches were required to get it to compile at all
- ⇒ Run it → Yay it crashed all over the place
- ⇒ Here the real fun starts
  - Fire up gdb, try fixing the lots of differences between gs base and LF

# *Fixing here and there*

- ⇒ Ran into a bug in GNUstep base
- ⇒ Ran into a couple of bugs in SOPE
  - Some problems affecting SOGo and OGo
- ⇒ Well, lots of fixes also in OGo needed
- ⇒ Problem categories:
  - double frees
  - Accessing already released objects
  - Access arrays/strings beyond bounds

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# ***New Features***

- ⇒ Integration of location based services
  - Geocode addresses to get coordinates
  - Ability to add icons to addresses to look up information based on the address on the web
  - Show list of contacts via markers on google maps
- ⇒ CTI with Asterisk
  - Trigger phone call via the Web Interface

# *What we have now*

- ⇒ OpenGroupware-5.5rc1
- ⇒ Compiles with gcc (tested with 4.2.1 and 4.6.X)
- ⇒ Compiles with llvm/clang
- ⇒ Compiles with libobjc2
  - Also with non fragile ABI
- ⇒ Mostly tested on OpenBSD, and OpenSUSE
- ⇒
- ⇒ All the tests so far show, we have a fairly stable RC1

# *Outlook*

## ⇒ For rc2

- Update documentation (WMOGAG)
- Potentially fix more bugs found by users

## ⇒ Maybe more RC versions, depending on bugs found and feedback

## ⇒ A final release in summer this year

## ⇒ Further releases with new enhancements ;)

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# *Where do I get it?*

- ⇒ [www.opengroupware.us](http://www.opengroupware.us)
- ⇒ [www.sf.net/projects/opengroupware](http://www.sf.net/projects/opengroupware)
- ⇒ Sources, bug tracker, m/l on SourceForge
- ⇒ You want to help out? No problem, test give feedback, send in patches, or become a project member!



*Demo*

⇒ Demo