

# Digital Business Ecosystem

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## Open Standards Open Source Solutions

Presentation for Fórum GNOME / LatinoWare  
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# Agenda

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- Digital Business Ecosystem introduction
- Case: Networked project management
- DBE possibilities in Brasil

# Digital Business Ecosystem project

- Free software project funded by European Union
  - Part of the €16 billion Framework Project 6
  - Developers include IBM, Sun and Intel
- First running version in summer 2005
- EU motivation for the project is making European small business more efficient
  - Efficient networking between companies can generate new business



# Small business and DBE

- “An ecosystem of networked small companies can evolve and adapt faster and more safely than the huge corporations”



# DBE components

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- Execution Environment
  - Java ServENT (Server-Client) for running the DBE services
  - Networking using Fada's scale-free P2P network
- Evolutionary Environment
  - Tools for connecting services and analyzing health of the network
- Service Factory
  - DBE Studio: development tools for creating DBE services using Eclipse



# Case: Networked project management over DBE

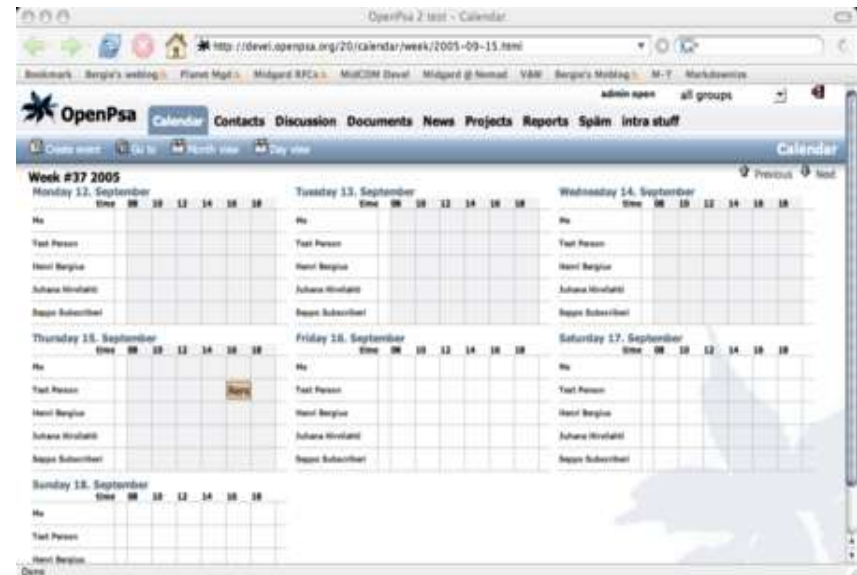
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- Typical project management software is monolithic
- Outsourcing and microcorporations are increasing trend in IT business
- How to allow collaboration across corporate boundaries?
  
- Solution:
  - Connect project management apps of partner companies through the DBE network

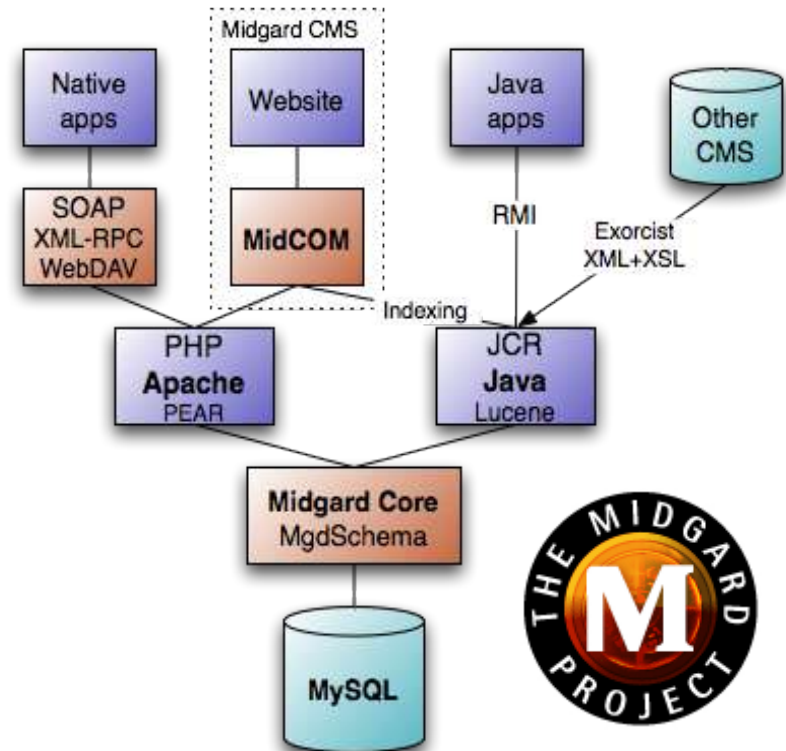
# OpenPsa

- Management software for software companies, consultancies and IT departments
  - Project management
  - Contact management and sales
  - Help desk
  - Calendaring
  - Document management
- Developed by Nemein, GPL license
- Users include Anttila, If Industrial, Italian government, Lumene Group, ...



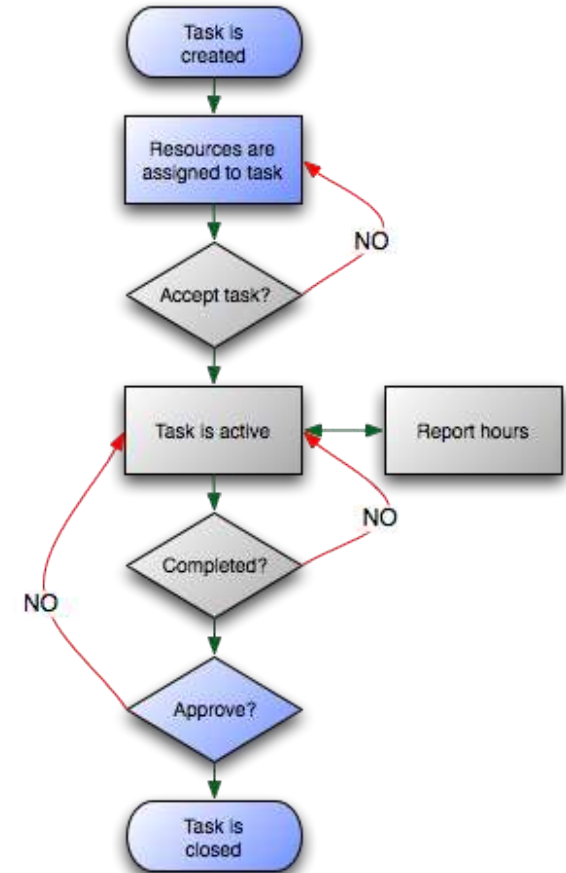
# OpenPsa Architecture

- OpenPsa builds on top of the popular Midgard CMS and MidCOM platform
- UI is built with PHP, Ajax and Microformats
- Midgard provides capabilities like:
  - UTF-8 internationalization
  - Replication
  - PAM and NTLM authentication
  - Java and PHP APIs
  - Indexing

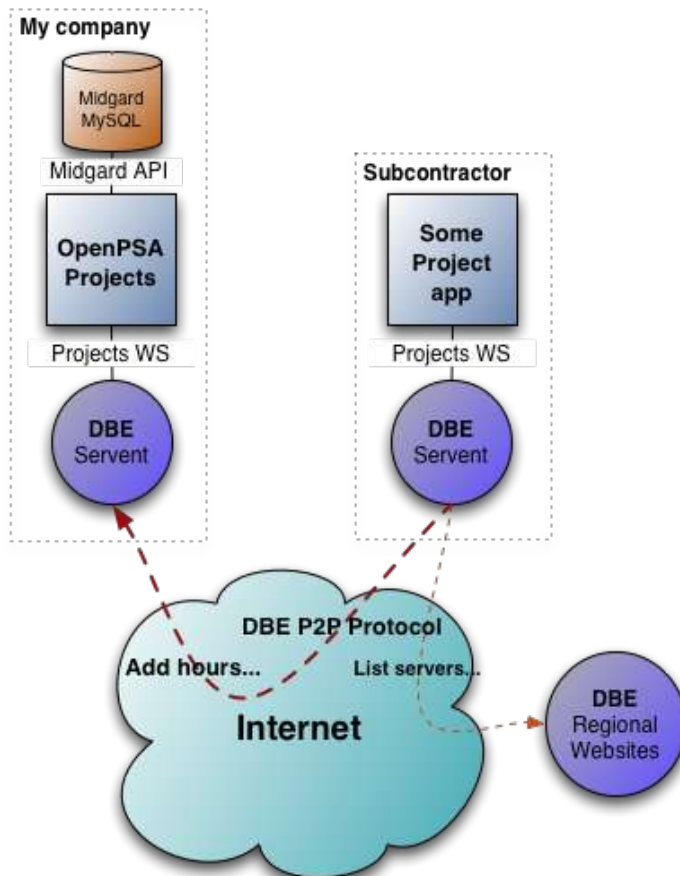


# Project workflow

- Project manager assigns tasks to resources
  - Resources can be local or remote (DBE) users
- Resources can accept or decline task
- Hours can be reported to task after acceptance
- When task is finished resources can mark it as completed
  - Task's deliverable (document, SVN commit, ...) must be completed first
- Project manager must approve the task before it is closed



# Connection with DBE



- Users use the PHP based UI
  - Remote DBE users are recognized with a service ID set in person preferences
  - Status is displayed in all person listings: 🌐 remote user 🌐 not synced
- OpenPsa service inside the ServENT watches for changes
- Data is serialized to XML format using Exorcist
- XML gets transferred over DBE Fada network
- Service updates sync status to DB

# Project status

- DBE Driver project started in June 2005
  - Developed together with OpenPsa version 2.0
- First running version in August
  - Integrated with UI in October
- Two pilot customers are now live
- Currently works with OpenPsa CVS version
  - OpenPsa 2.0 beta coming soon

**Nemein Oy**  
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Consultant Partner  
<http://www.nemein.com/>  Edit

**User account**  
bergie

**Digital Business Ecosystem** 

DBE ServiceID:  
2e48cb9fd47665d536b6665d210ebe72  
never synchronized

# Future possibilities for OpenPsa

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- Project broker for finding possible subcontractors from DBE network
  - “Who could do a 15 hour SyncML project next week?”
  - Connected to resource scheduling
  - Define competences as folksonomies
  - Skip agreements and pricing in first phase
- DBE connectivity to other OpenPsa modules
  - Coordinated sales projects
  - Calendar event invitations
  - ...

# DBE in Brasil



Brasilian Minister of Culture Gilberto Gil discussing and supporting the digital ecosystems at the EU booth in WSIS, Tunis, with the Vicedirector General of DG-INFSo Zangl (photo: Francesco Nachira)

# DBE in Brasil

- “Ministry of Culture of Brasil, Claudio Prado confirmed that the initiative fits with the Brazilian approaches in ICT as enabling instrument for empowering the local culture and e-business”
- How to get started?
  - Local business cases – find the real benefit of networking
  - Training for implementors
    - Nemein has provided similar training in Finland
  - Local DBE “root node”



# DBE resources

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- DBE project site  
<http://www.digitalecosystem.org/>
- DBE Execution Environment on SourceForge  
<http://swallow.sourceforge.net/>
- DBE Studio – Eclipse plugin  
<http://dbestudio.sourceforge.net/>
- OpenPsa – networked project mgmt tool  
<http://www.openpsa.org/>