

Digital Business Ecosystem



Open Standards Open Source Solutions

Presentation for Fórum GNOME / LatinoWare
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Agenda

- 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

- 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

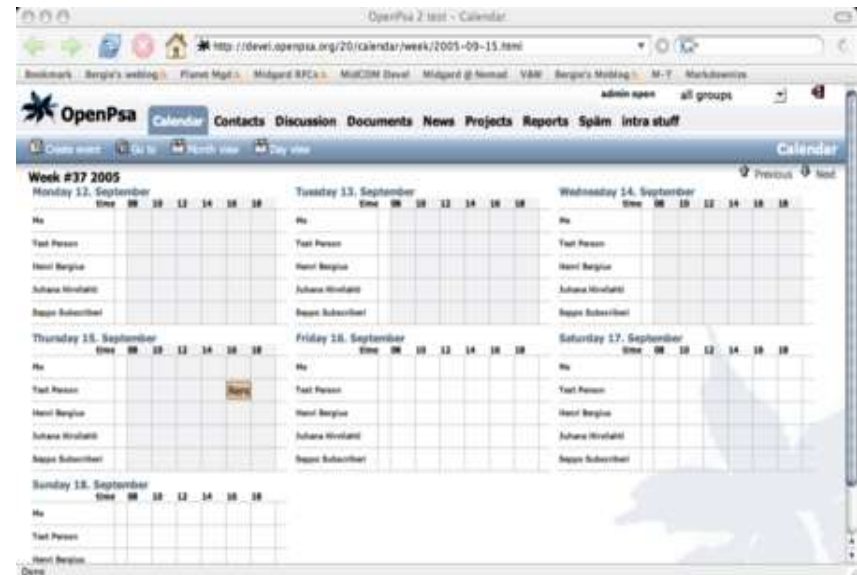


Case: Networked project management over DBE

- 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

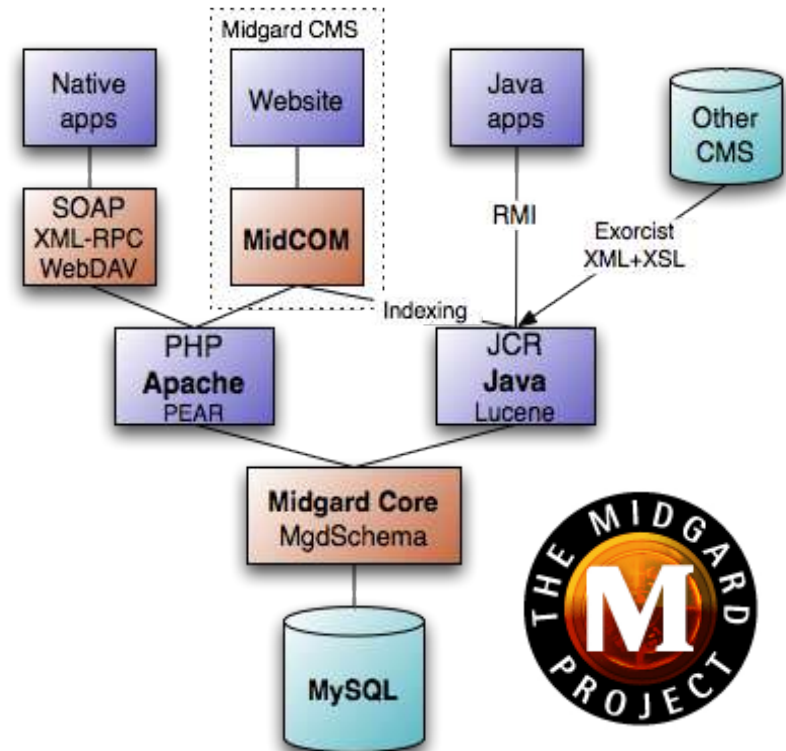
OpenPsa

- 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, ...



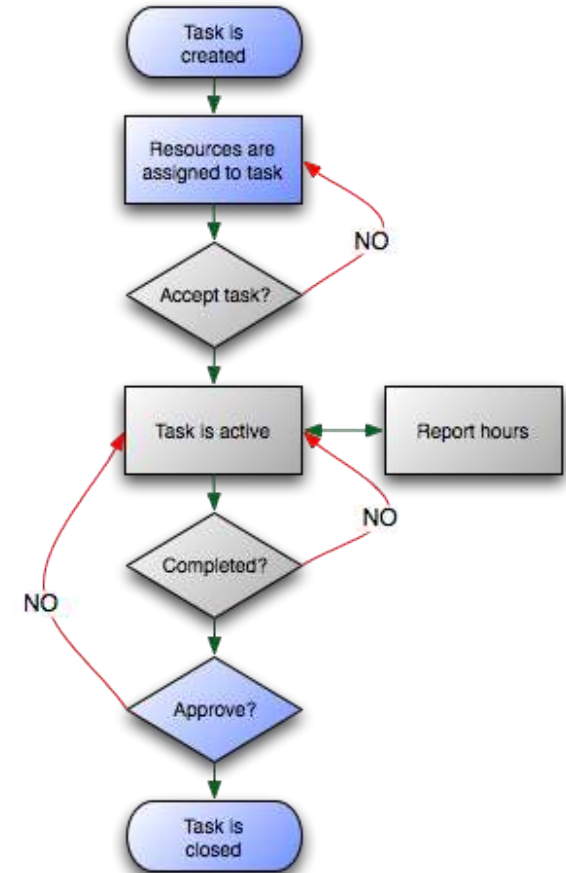
OpenPsa Architecture

- 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

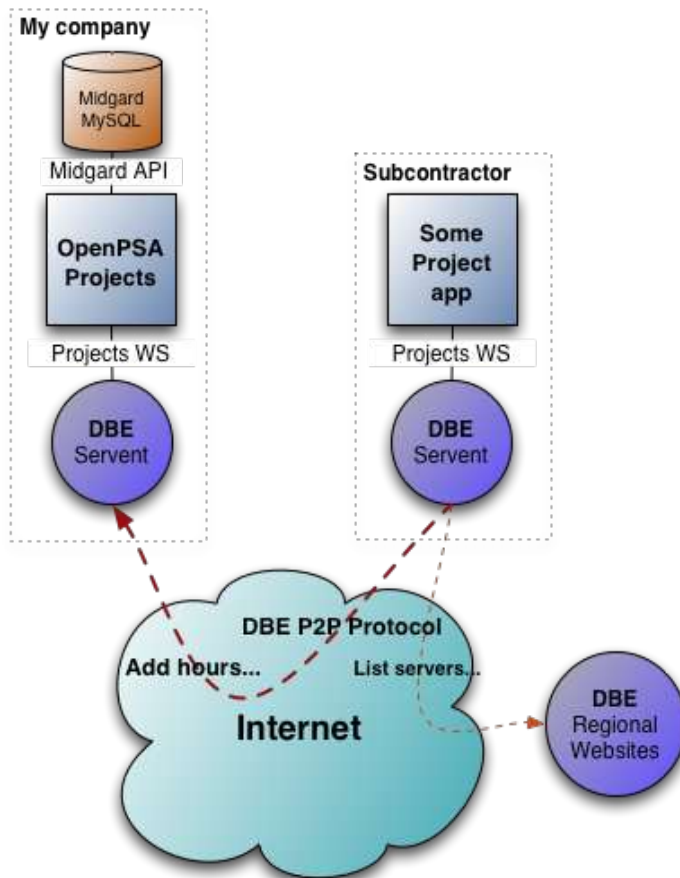


Project workflow

- 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
Consultant Partner
<http://www.nemein.com/>  Edit

User account
bergie

Digital Business Ecosystem 

DBE ServiceID:
2e48cb9fd47665d536b6665d210ebe72
never synchronized

Future possibilities for OpenPsa

- 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



Brasiliian 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

- 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/>