Leverage open source techniques for successful projects

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Agenda

- Leverage open source techniques for successful projects
- A CSD example
- A CSD live demo
- Questions and Answers

There is room for process enhancements in corporate IT

Problem

- 2/3 of the projects fail on time, budget or miss the scope

Trends

- Globalization, IT manager are managing global teams
- Shortened release circles
- Growing code size and complexity

What happens in the Open Source Development?

- Open Source project resulted well known operating systems, servers, databases
- Examples - GCC, Mozilla, Apache, Linux, JBOSS, MySQL
- Open Source project scale well from small to large projects
- Global development teams are working together around the world
- People + Passion = Good Results
- 1996, GCC compiler project, internal/community project versus

Trends

- Growing communities
- More and more acceptance, Open Source components by corporate IT's

How open source techniques can be adapted for corporate IT's?

Processes/Methodology

- Different for Linux, Apache, Eclipse and others
- Many Open Source development processes are one kind of Agile, Scrum process and they are know by corporate IT's.
- Decision making culture is different
- Some open source processes are not practicable for corporate IT processes

Tools are different in Corporate IT and Open Source Worlds

Tools needed by Open Source Communities

Requirements

- Must be efficient over WAN, (home)
- Transparency, achievability
- On the fly setup infrastructure
- Easy to maintain

Communication

- Mailing lists, Forums
- Wikis, Blogs, RSS the mailing lists, forums replacements

Commonly used Version Control Systems

- CVS, Subversion, the CVS replacement

Build

- ANT, CruiseControl, part of Maven

Issue tracking

- Bugzilla, simple part of Jira

IDE

- IDE with integrated CVS, Subversion support

What Corporate IT can Adopt?

1. Team Collaboration
   Open Source communities learned how to communicate across time zones, languages and cultures
2. Agile Processes
   Adopt some Agile techniques proven by communities such as continuous integration if it applicable for your IT
3. Communication Infrastructure
   Setup a Secure Communication infrastructure.

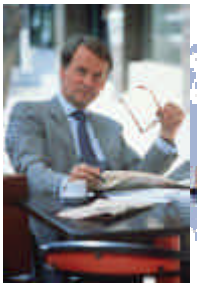
Communication infrastructure (CSD)

- Think ahead how scaleable, secure and extendable the infrastructure is to involve your global teams and how it integrates with your IT infrastructure. Consider factors in your decision such as:
- Communication Infrastructure maintenance costs
- Security
- Choose a collaborative software development platform such as Sourceforge, CodeBeamer or CollabNet instead of spending your time integrating simple tools. Such integrated platform will help you with
- efficient team collaboration
- customer communication
- transparency
- creating knowledge base
- security
- ALM
- easy maintenance

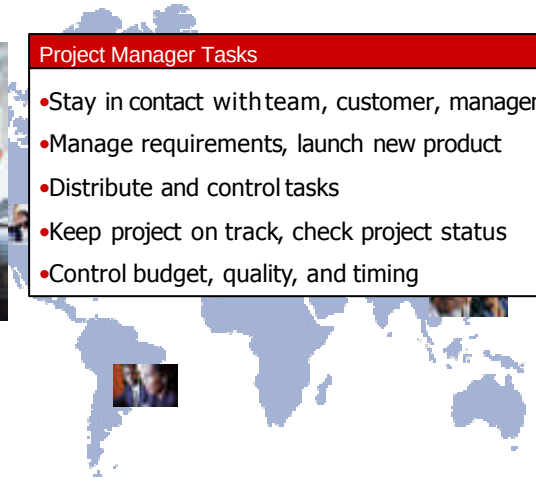
Results of the use of a Collaboration platform

- Reduction of administration efforts
- Cost reduction at
  - Professional Service costs, Implementation, Training efforts and cost of travel
- Set up of a centralized Project repository
- Reduction of „Ramp Up Time"
- Enhanced Communication
- Build of Knowledge, -distribution and -usage
- Productivity enhancement for technical and economic user

Distributed Team Tasks



Peter,
Project Manager



Project Manager Tasks

- Stay in contact with team, customer, management
- Manage requirements, launch new product
- Distribute and control tasks
- Keep project on track, check project status
- Control budget, quality, and timing

Distributed Team Tasks

Development Team

Remote Development Team Tasks

- Programming
- Bug fixes, handle change requests
- Deliver program documentation
- Test and integration
- Keep project management informed
- Report on tasks and efforts

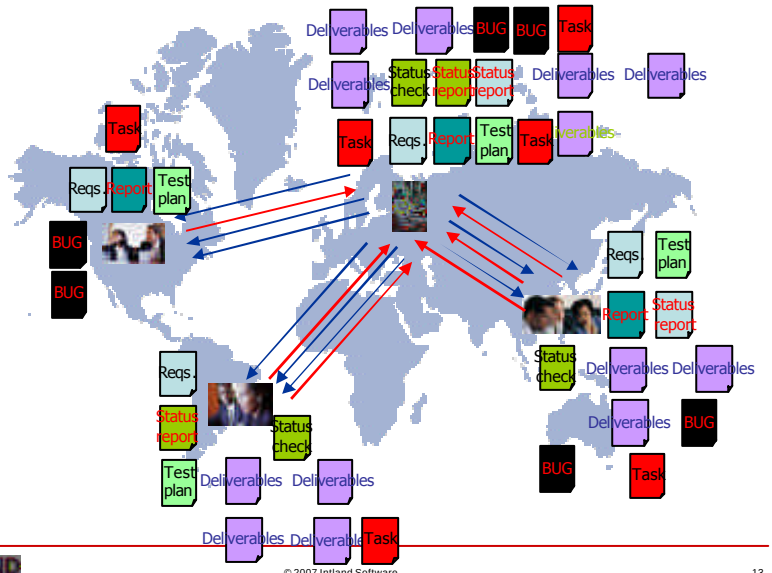
Distributed Team Tasks

Stakeholders

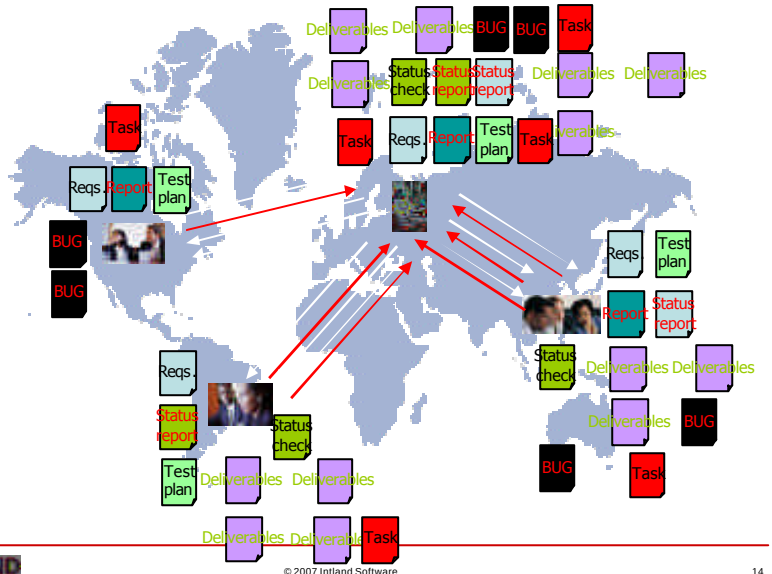
Customers

- Control project budget
- Inform stakeholders
- Keep an eye on project progress
- Communicate with project management

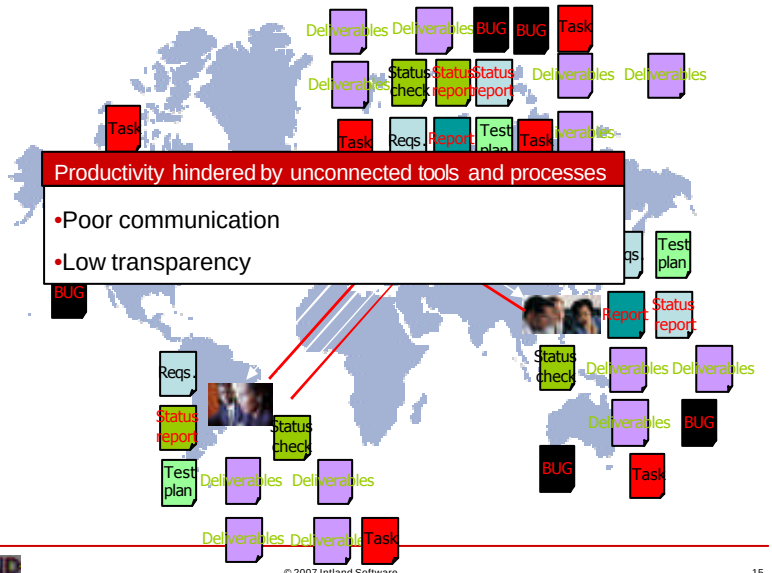
Distributed Team Communication



Time wasted...



Distributed Teams Dilemma

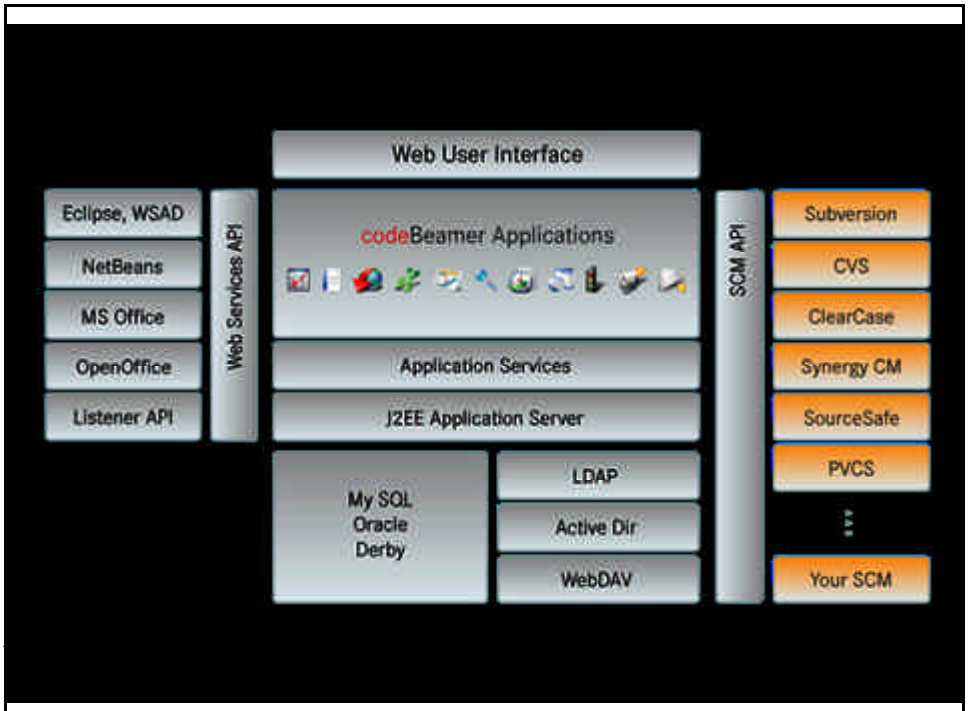


Distributed Teams with a CSD

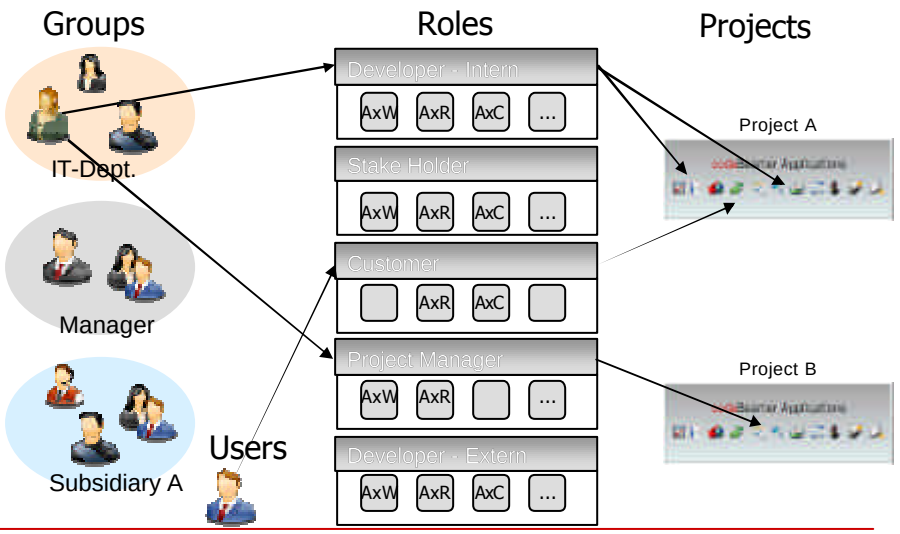
CSD from the User Perspective

An enterprise platform of integrated applications including:

- Issue tracking for Bugs, Task, CRQ
- Document Management
- Wiki Spaces
- SCM integration
- QA metrics
- Build support
- Discussion Forum, Email integration
- Dashboard
- Search and Indexing

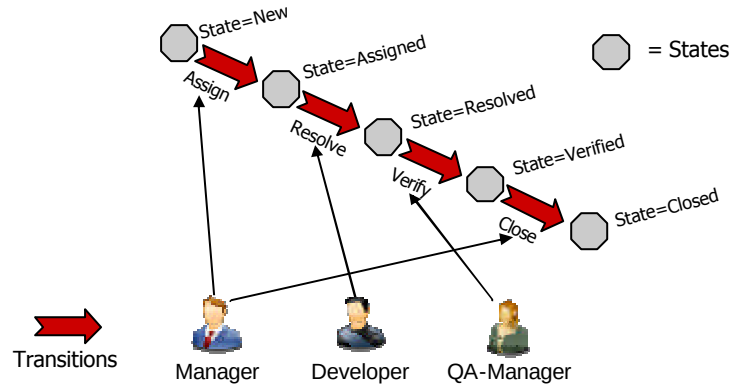


Major differces at IT shops User, Groups and Roles



Major differces at IT shops (2) Workflow

- Workflow can be configured for each tracker to enforce tighter controls over processes



CSD Value Proposition

- Captures knowledge
- Improves project management
- Increases productivity and reuse through indexed, searchable access to all artifact
- Controls release schedules through integrated change management
- Promotes collaboration and information sharing among teams and across enterprise

Who Relies on CSD's?

Live Demonstration

Questions and Answers