



Customer Council Engagement with Open Source

15 October 2002
Cannes, France

THE *Open* GROUP

Agenda

- ❑ Introductory remarks
 - Carl Bunje
- ❑ Panel member presentations
 - Ken Linker, DISA
 - Dean Richardson, Boeing
 - Steve Jenkins, JPL
- ❑ Panel discussion
- ❑ Potential for Open Group involvement
 - Walter Stahlecker, HP

Open Source – Are You Engaged?

There is “still an insufficient perception of the value of Open Source to the Customer”

-- Bruce Perens

- How many of you make use of established open source products within your enterprise?
 - Linux, Apache, Sendmail, GNU Toolset, PERL, ...
- How many of you have incorporated open source code into your systems? (internal, embedded, product)
- How many of you have engaged the open source community in the development of your software systems?
- How many of you consider yourselves members of the open source community?

Potential Benefits

Have you realized them?

- ❑ Access to extensive technical expertise
- ❑ Able to achieve high level of code efficiency
 - Rapid release rate
 - Quick fix & patch release
- ❑ Code publicly available
 - Code can be custom tailored to specific needs
 - Code reuse enables focus on developing unique features instead of redeveloping existing code, reducing development time
 - No forced obsolescence, intentional or otherwise
- ❑ Second source potential for open source products and support

Perceived Risks

Have you mitigated them?

- ❑ Poor code may result from small projects that do not attract enough participation
- ❑ Version control and integration
- ❑ Code base fragmentation (code forking)
 - Due to poor administration
 - Personality conflicts
 - Conflicting requirements

Consideration of Qualitative Attributes

- Ability to customize
- Availability/reliability
- Interoperability
- Scalability
- Design Flexibility
- Lifetime
- Performance
- Quality of service and support
- Security
- Level of difficulty/ease of management
- Risk of fragmentation
- Availability of applications

From "A Business Case Study of Open Source Software",
Carolyn A. Kenwood, The Mitre Corporation, July 2001

Some Criteria for Evaluating Open Source engagements

- Lifecycle cost models may be different from traditionally used for COTS software
 - Costs
 - Direct – Software price, Formal support, etc.
 - Indirect – Downtime, Peer support, Training, Integration, etc.
 - Benefits
 - Operational, performance, scalability, reliability, functionality, etc.
 - Intangibles
 - Perception of reliability, Quality of support, Administration and Management, Procurement and Legal, etc.

- Do indirect costs, operational/performance benefits, and intangibles play a greater role in Open Source than COTS software?

Project Management Issues

- ❑ Requirements management
 - Conflict resolution
 - Integration and consistency
- ❑ Source and Version control
 - Homestead – Internal or External
- ❑ Integration and Testing
- ❑ Schedule management
- ❑ Licensing and Legal issues
 - Multiple licensing models
 - License “contamination” – what is considered to be a “derivative work”
 - Deployment and Distribution

Panelists

Ken Linker

COE Community Process Coordinator
DISA

The COE (Web Common Operating Picture) Community Process is a pilot program to determine the effectiveness of developing capabilities to web enable the Common Operating Picture through a community process. Instituting controlled open source software development is a component of this effort.

Dean Richardson

Enterprise Messaging Infrastructure
Boeing

Dean will discuss some of the Boeing engagements with Open Source, including the Open Group EMA Challenge.

Steve Jenkins

Architecture and Systems Engineering Manager
Institutional Computing and Information Services
JPL

Steve also will discuss a number of different engagements that JPL has made with Open Source.