



OpenAFS

Futures

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Agenda



- This is really 2 discussions
 - Development roadmap
 - Organizational futures

Works in Progress



- Windows native installable filesystem
- Windows client Unicode support
- Extended Callback interface
- Rx OSD (pending integration)
- Google Summer of Code projects
 - <http://code.google.com/soc/2008/openafs/about.html>

More Works in Progress



- Rx Kerberos 5 support
 - rxk5 work substantially usable
- Byte range locking
 - Unix clients
 - Servers
- Lock Delegation

Projects seeking support



- Improving performance on 10GBit networks and implementing support for IPv6
 - Rx/TCP
 - bulk data transfer
- Removing directory limitations
 - More than 64000 “blobs”
 - Extended attributes
 - Internationalization

More projects seeking support



- NDMP
- HostAFSd - local filesystem re-exporter
- Non-coding
 - Web site replacement
 - Version control migration
- Many more ...

How can you help?



- Today
 - Contribute code
 - Works for hire
- Tomorrow
 - That leads in to our next discussion

Legal issues



- OpenAFS doesn't exist
 - Can't have assets or intellectual property
 - Can't accept or hold money
 - Can't own domain names
 - Can't sign contracts or MoUs
 - Can't provide liability protection

OpenAFS governance today



- Gatekeepers
 - 2 commercial, 1 academic
- Elders
 - 5 commercial, 3 academic
- Elders promote and fundraise
- Gatekeepers foster code, manage releases

OpenAFS governance tomorrow



- Non-profit charitable foundation
 - Open source development continues
 - No licensing changes
 - Foundation can accept tax-deductable contributions of money and intellectual property
 - Contracts for things such as this workshop can be entered into directly

The foundation's mission



The whole point is:

**Keep the software free
and the protocol open!**

The foundation's mission



- Developer of open-source technology which makes use of these protocols
 - Maintainer of version control repository
- Stewardship of strategic direction
 - A set of guiding principles will need to be agreed on by the community
- Community-building and outreach efforts
 - Like this workshop!

The foundation's mission



- Create value for public benefit
 - Standardization body for AFS protocols
 - Promoting adoption of the protocol.
 - Otherwise, all the rest is for naught.
 - Help deliver products
 - Both via free open-source implementation and by helping other protocol implementors
 - Use our intellectual property to help maintain the interoperability of protocol and runtime interfaces

The foundation's mission



- Holder of related intellectual property
 - Trademarking of logos, mascot
 - Assigned copyrights on works
- Recruiting and growing new contributors
 - Summer of Code
 - Computer Science student senior projects
- Maintainer of infrastructure for the advancement of these goals

Incorporating the Foundation



- Pending resolution of trademark issues, no name is yet proposed
- Basic starter bylaws to allow foundation to self-bootstrap
- Proposed timeframe would be early July 2008

Foundation framework - A proposed model



- Two layer technical organization
 - Technical advisory board
 - Stakeholder organization members
 - That's potentially all of us
- Legal organization
 - Administrative staff (likely part time or volunteers where legally permissible initially, while we get off the ground)
 - Corporate board of directors

Technical advisory board



- One proposal would be an annual meeting of this board
- Major donors would be offered seats
 - This would be structured to avoid domination by any individual organization
- Community seats would also need to be filled
 - A mechanism for selecting community members to serve will be needed

Stakeholder members



- All OpenAFS stakeholders would be offered membership in the organization
 - Any contributor is a stakeholder
 - Not all contributions need be financial
 - Code
 - Documentation
 - Testing
 - Maintaining and building infrastructure

Legal administration



- Officers of the foundation would be ex-officio board members
- Employees of the foundation would not be eligible for board seats
 - Even nominal employees holding positions for legal e.g. liability coverage reasons

Filling in the framework



- To help bootstrap monetarily, suggested donations for organizations wishing to offer technical advisory board members
- Much research has been done into what is required to incorporate

Meantime



- Development continues
- Needs still exist
- If you can contribute in ways we can accept today, please do

OpenAFS Futures



Questions?