

General Overview What is it? Theory of Why it Works Open Source Licensing Basics Open Source at Sony Mobile History Strategy Intellectual Property Open Source Processes



Why are we here??

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- SOMC's History/Transition Share lessons learned
- Engineers/Developers have tremendous opportunities, but with that comes responsibility
- Lawyers and Engineers need to work together legal and technical issues overlap

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What is Open Source Software?

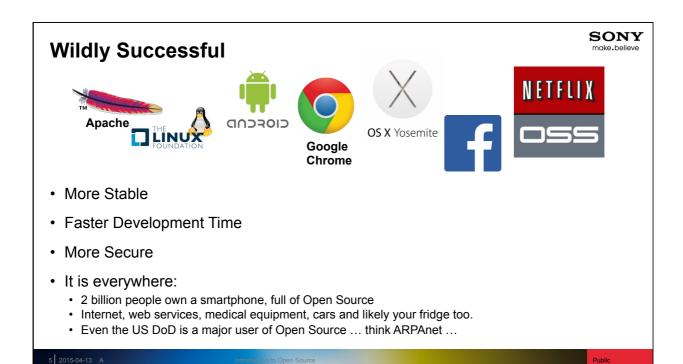


- Computer Software that provides its source code under a license with the rights to study, change, and distribute the software to anyone and for any purpose
- OSI Definition: 10 Freedoms http://opensource.org/osd-annotated
- Is it widely used?

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The Cathedral vs The Bazaar - Why it Works



- · Linus' Law: with enough eyeballs, all bugs are shallow
- Release early, release often (bleeding edge vs. stable releases)
- Users = Co-Developers: users become testers, and testers become contributors
- Skilled developers wandering through your architecture
- Self-selection of developers
- Public your work is on display (and the criticism can be brutal)
- Meritocracy + Democracy/little management
- Crowd Power crowd decision-making works in the context of code development
- Why developers volunteer: reputation, experience, scratch an itch/solve a problem
- Why developers are paid: shared support and maintenance makes it cost efficient and more reliable

See Eric S Raymond, The Cathedral and the Bazaar: http://www.catb.org/esr/writings/cathedral-bazaar/cathedral-bazaar/

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Licensing Basics - Copyright

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- Copyright attaches to every novel expression of an idea (e.g., software)
- Exclusive Right to:
 - Copy
 - Modify
 - Distribute
- Time Limited 50+ years
- License grants defined rights



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Copyleft



Richard M Stallman

Reciprocity

Distribution = trigger

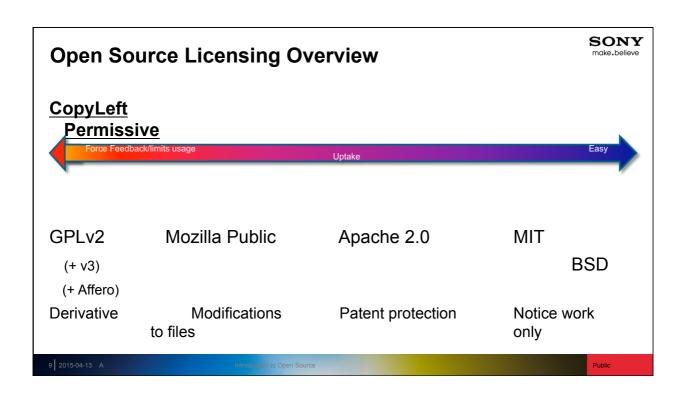


Changing the code/combining with other code = need to provide changes/combination to the downstream recipient

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License Interpretation (Re Copyleft)



- GPL uses very technical language (+ is a manifesto as much as a license)
- Glosses on licenses created by old message board discussions/FAQs
 - E.g, Linus Torvald's interpretaion of the GPL as it applies to Linux
 - Stallman/FSF's FAQ pages about the GPL
- What is a derivative work often becomes very technical
- Widely recognized exceptions/interpretations by the community shims, sockets, etc.

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Open Source Community

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- Free Software Foundation Stallman founded
- Software Freedom Law Center Eben Moglen
- Apache Foundation
- Linux Foundation
- gpl-violations.org

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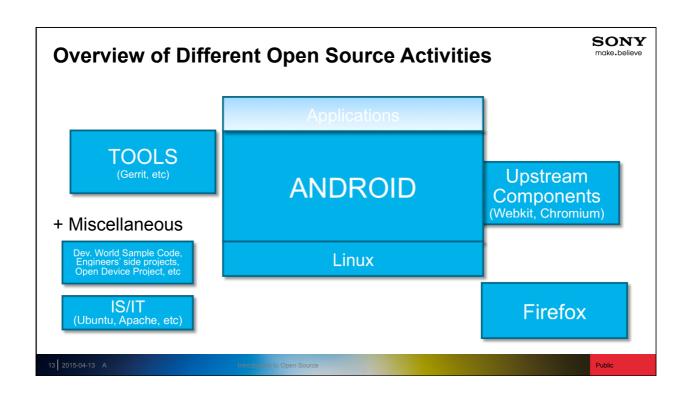
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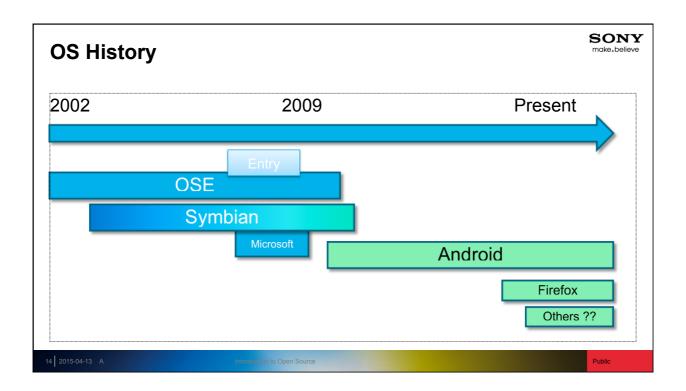
Open Source at Sony Mobile

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Official Strategy

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Sony Mobile's Strategy in Open Source is to reduce our OPEX and TTM through active but selective contributions of Non-Differentiating SW to the Open Source Community.



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Fundamental objectives for [AOSP] contributions



- Reduce Cost of Maintenance
 Contributions reduce the patch mountain.
- Improve Time-To-Market
 Fewer patches means faster bring ups.
 Feedback from Google shows insights to roadmaps/strategic direction.
- Disrupt Competitors

By contributing, we force competitors to re-adjust their set of patches.

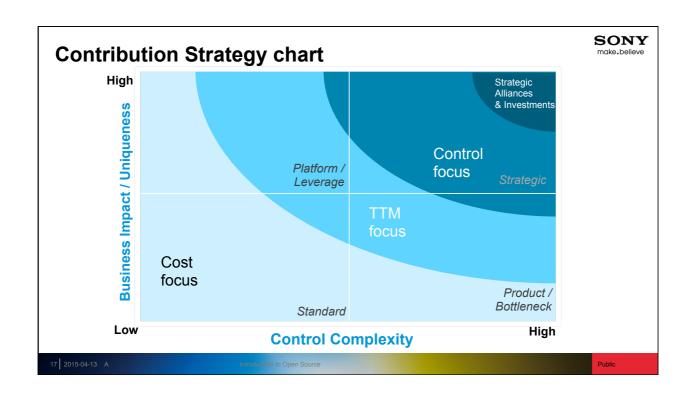
· Get Closer to Google

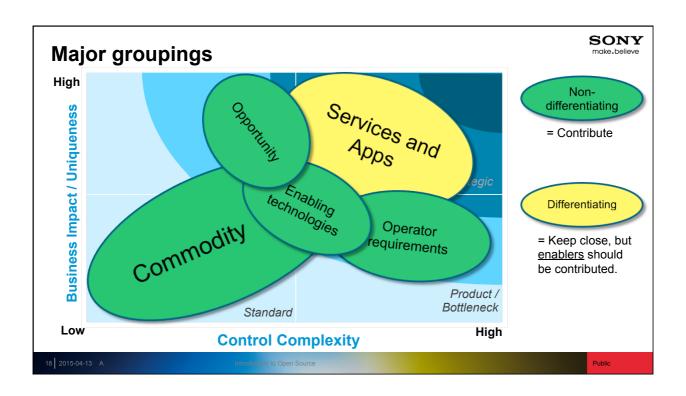
Create engineer-to-engineer relationships that can be leveraged to drive the business. Influence Android strategy.

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Intellectual Property Rights and Contributions

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Patent Strategy

To reduce royalty payments and to ensure that products are the most appealing.

IPR Dept

Checks contributions for conflict with IPR goals and objectives.

Modify

If there are patent issues, IPR Dept can often suggest alteration of a proposal to allow for contributions. It is extremely rare a contribution proposal is fully rejected!

Document

Track all submitted contribution proposals and their status.



Do not Self-Censor!

Try it, and if (when!) getting an approval from Open Source Board = IPR is cleared to contribute.

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Open Source Processes

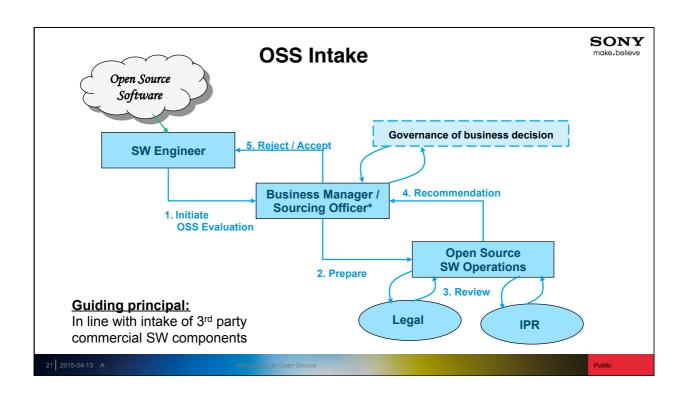


- 2 Corporate Directives
 - Intake Open Source Software Directive
 - Output Open Source Software Contribution Directive
- Open Source Board Decision making body for <u>contributions</u> of Open Source. Maintains the Open Source Directives. Members:
 - Legal
 - IPR
 - · Open Source Operations
 - · Technology/CTO
 - Development (GSM)
 - · UX (App Software)

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Classification of Contributions



Trivial contribution

A Trivial contribution is a rather small and simple change to already existing open source software. No new functionality added. No significant improvement in performance.

· E.g., bug fixes

Medium contribution

A Medium Contribution is larger than a Trivial Contribution. It can contain both substantially changed functionality and completely new functionality.

• E.g., new Linux device drivers (support for new hardware)

Major contribution

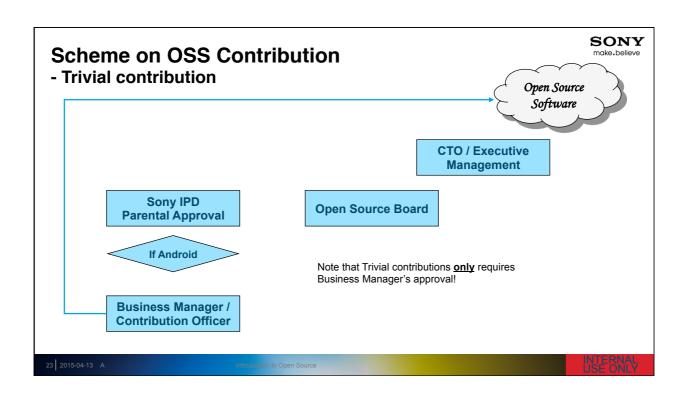
A Major Contribution involves substantial amounts of code, with significant Intellectual Property value, and is the result of considerable internal development efforts.

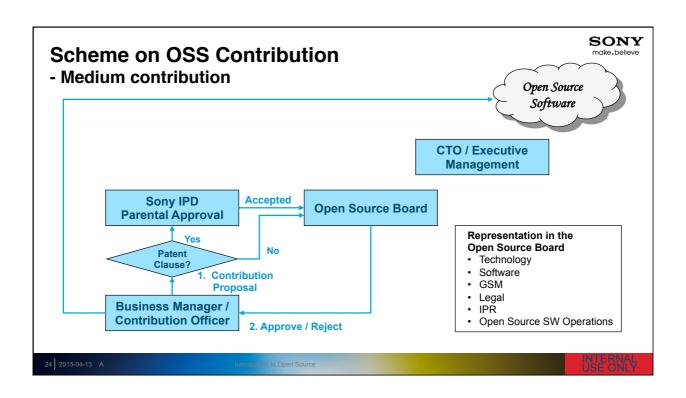
• E.g., DRM Framework

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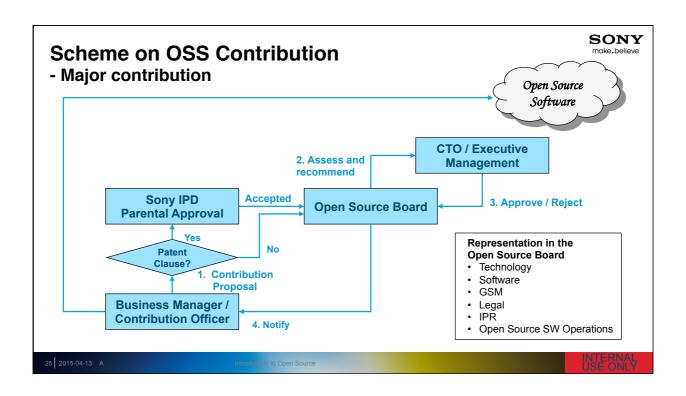
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Conclusions

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- Engineers empowered, but need to take responsibility
- Legal and Development/Engineers need to work together
- Open Source is simple –understand the consequences and handle it accordingly
- Process/Administration

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