



Boundaryless Information Flow Open Source in the Enterprise

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The Business Model of Free Software Legal Myths and Real Benefits

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Overview

- Who Are We?
- What is Free Software
- Business Models of Free Software
- Free Software & Internet Downloads





Who Are We?



ACT Europe & Ada Core

- The leader in Ada 95 technology
- GNU technology contributor
- Everything that we do is Free Software



Core Products

GNAT Pro



Full-featured Ada 95 development environment

GNAT Pro High-Integrity Edition



To develop safety-critical applications



Customers & Application Domains

- Air traffic control
- Avionics
- Communications
- Energy
- Financial industry
- Medical Imagery
- Military
- Space
- Television
- Transportation

- Alcatel
- BAe
- Boeing
- Canal+ Technologies
- EADS
- Ericsson
- Eurocontrol
- Lockheed Martin
- Philips Semiconductors
- Raytheon
- Rockwell Collins
- SAAB
- Smith Industries
- THALES





What is Free Software?



Intellectual Property Rights (IPR)

- The authors of a work own its copyright
- Unless:
 - Work-made-for-hire implied by employment
 - Specific work-made-for-hire agreement
 - Specific contractual assignment occurs
- Both source and object code can be copyrighted

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What Does Copyright Control?

It allows the author to control copying

Loading a program is a copy



Copyright & Licensing

- A copyrighted work cannot be copied unless...
- ... the copyright holder grants you a license ...
- ... permitting copies under specified circumstances
- Licenses are free to contain the clauses they like
 - Not quite...
 - E.g. In the EU it is legal to decompile applications for interoperability
- Virtually all software today is sold with a license



Free Software Is Copyrighted Software

- Free Software comes with a license ...
- The General Public License (GPL)
- If you violate the GPL the copyright holder(s) can sue you
- From this point there is NO DIFFERENCE between







GPL: The License of Free Software (FS)

The GPL is written to favor FS users

Unlike Microsoft license which is written to favor Microsoft

Specifically the GPL guarantees:

- Sources are available to recipients of FS programs
- Freedom to run, copy, redistribute, change a FS program
- If you distribute a FS program the recipients have your same rights
- If you modify a FS program and redistribute the new modified program you must distribute your changes

Examples of Free Software:

Emacs, GCC, GDB, GNAT, GNU/Linux, ...



Free Software & Public Domain

FS is NOT Public Domain (PD)

Software is in the PD if:

- Enough time has elapsed
 - But this can be extended by modification
- Explicitly placed in the PD by the holder of the copyright
- Up to the user to determine if something is in the PD
 - PD software is owned by no one
 - You can do anything with PD software
 - Even have your own proprietary version



Free Software & Open Source Software (OSS)

- OSS used to describe software that came with sources
- The term was abused by some vendors that provided...
- ... the sources under a very restrictive license
- OpenSource.Org has given the licensing criteria upon which a program can be considered OSS
- Free Software with its GPL is an example of OSS
- The BSD or Apache licenses are other examples of OSS





Business Models of Free Software



Software Business Models

(1 of 2)

B₂C

B₂B

Paid-Up-Front (PUF)

- No upgrades
- No support

- Upgrades
- Some support

Subscription based

- Upgrades
- No Support

- Upgrades
- Advanced support



Software Business Models

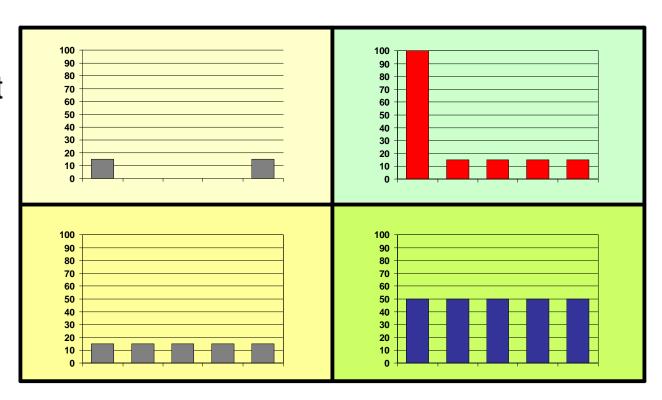
(2 of 2)

B₂C

B₂B

Paid-Up-Front (PUF)

Subscription based





Free as in Freedom

- You can sell Free Software
- Free Software is a matter of liberty not price
- A Free Software product is like any other product
- There are no restrictions on the price that can be charged



Developing Proprietary Software

- No problem in using FS tools to develop proprietary software
 - Eg. GDB, Emacs, ...

What about FS components (libraries, runtimes,...)?

- If license is the GPL cannot redistribute the combined work
- FS vendors license their FS components with a special version of the GPL that allows distribution of combined work
 - E.g GNAT-modified GPL
- The Cygwin example

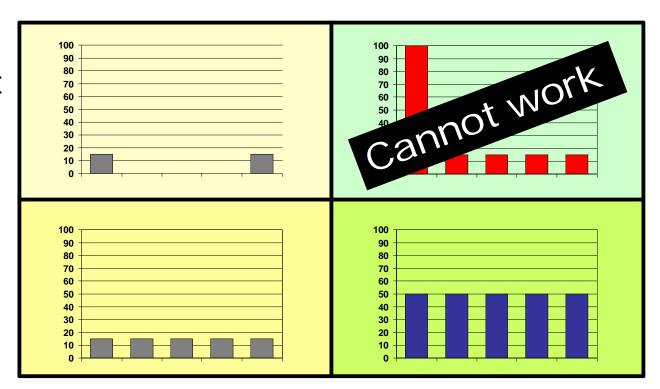


Free Software & Business Models

B2C B2B

Paid-Up-Front (PUF)

Subscription based





Selling Free Software

- FS is either sold as a commodity
 - E.g. GNU/Linux
- Or comes with a high-quality service
 - E.g. GNAT Pro
 - Expertise-based support
 - Strong incentive to give a high-quality service
 - Allows the creation of a local pool of expertise





Free Software & Internet Downloads



Internet Downloads

- You have NO obligation to make a FS program available gratis
- However, FS programs can often be downloaded from the Net
- Why? Reasons vary
 - Marketing & mindshare
 - Create a community
 - Break a monopoly
 - •



Downloads & Legal Guarantees

- What legal guarantees do you have ...
- ... when you download software off the net?
- Typically NONE

- You must identify the copyright holders and the license
- You may be LEGALLY responsible wrt 3rd party IPRs
 - In the US you are legally responsible: strict liability



Purchased FS & Legal Guarantees

When you buy FS the FS vendor gives you:

- A written license and
- Is legally liable to you for potential IPR violations





Conclusion



Summary

- Free Software is just like any other software
- It is copyrighted software that comes with a license

The critical difference with conventional software is:

- License provides maximum freedom to the users
- No lock in
- License favors a support-centric business model