

# Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

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Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

- 1 OSS Watch
- 2 Current issues facing OSS Watch
- 3 UK national policies
- 4 The JISC draft policy
- 5 A University Open Source Policy?
- 6 Conclusion

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies



The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

I am Sebastian Rahtz:

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Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

- Give an overview of what *OSS Watch* does
- Highlight the common issues we encounter
- Outline some recent UK government work
- Discuss what a university open source policy might say

- The JISC (Joint Information Systems Committee) coordinates educational IT structures in the UK. Directly funded by the state at the same level as research councils.
- JISC runs the physical network for HE and FE, provides services, and funds applied research.
- OSS Watch is funded from 2003-2006 as a UK national Open Source Advisory Service.
- OSS Watch has 3.25 FTE based in Oxford University Computing Services' *Research Technologies* section.

OSS Watch provides unbiased advice and guidance about free and open source software for UK further and higher education.

**OSS Watch is not set up to be an advocacy group.**

# What's going on in UK HE and FE?

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

- Most universities deploy backoffice open source software
- Many FE colleges have open source at the grass roots but not institutionally
- Educational software like VLEs are on everyone's agenda
- No-one has addressed staff involvement in open source at a policy level
- The JISC is very much in favour of open source
- The UK government has fine words but not much action

# What about Europe?

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

- Most governments have put studies of open source in place (eg France, Denmark, Germany, Spain, Sweden, Finland, UK)
- Germany has seen a trial involving the GPL
- Spain has a provincial government deploying OSS widely
- The EU has agreed to software patents via an incredibly undemocratic process. An interesting saga.



# What does OSS Watch do?

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

*Briefing material*

*Conferences*

*Project support*

*Reports to JISC*

*Collaboration*

*FE roadshows*

*Demonstration Software*

*Survey*

*Website*

*Workshops*

*International Conference*

2-3 page guidance notes

Twice yearly

Face to face discussion

JISC open source policy

Working with other groups

Regular 1 day intros

Knoppix and Open CD

Autumn 2004, Autumn  
2006

(naturally)

Focused small events

March 2006

- *What is version control? Why is it important for due diligence?*
- *Where to go to try out some open source software*
- *5 essential open source tools for the sysadmin*
- *Linux Standards Base: what is it and why is it important?*
- *OSS Watch KNOPPIX 3.6*
- *Dual Licensing: A threat to Open Source Software?*
- *Standards and Open Source*
- *Assessing the Role of Libre/Open Source Software for European Industry, The Hague, 19 November 2004*
- *Open Standards and Libre Software in Government, The Hague, 18 November 2004*
- *4th International System Administration and Network Engineering Conference, 30 September 2004*

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

January 20th 2004: 'Open Source: national frameworks'

Alan Robiette: *developing JISC open source policy and practice*

Marc Bressers: *OSOSS - open source and open standards in The Netherlands*

Rishab Ghosh: *open source across Europe*

David Casal: *open source business across Europe*

David Rayers: *open source and the BBC*

Michael Coen: *investing in proprietary, in-house or open source software or services*

# Current issues facing OSS Watch

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion



## How to choose the right licence?

- It is hard to know at the start of a project which licence to use
- The GPL scares off industrial collaborators because they see it as a threat to their codebase
- The LGPL is hard to understand
- BSD-like licences seem to invite other people to not play the game
- Creative Commons is worryingly attractive because it smells like open source but lets you be restrictive

Note the anti-GPL noises coming from SAKAI. They are nervous of losing commercial partners.

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

## Worries about:

- *Speed of change*: who knows where this stuff is going?
- *No roadmap*: how do we plan our support needs?
- *Functional gaps*: will we need support to plug them?
- *Licensing issues*: does this impact on who can provide support?
- *ISV endorsements*: will anyone admit to being able to help us?

Projects *tend* to start small, and often go in one of seven directions:

- stay small: **remains a nerd tool**
- gather users but no new developers: **frustrated users**
- fragment when primary leader loses interest: **unattractive for new people**
- develop power but with minimal documentation: **no way to find the power**
- grow within an expert community: **high price for admission**
- go commercial: **stops being 'free'**
- simply die

# What we aspire to

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

- Apache: technical strategy, formal democratic management, enviable reputation
- Docbook: described in all the books in the shop about XML
- Moodle: tops the rankings in Google
- Firefox: smooth as butter install, reference implementation
- uPortal: shared development between academia and business



The **visionary** has the Big Idea, makes the long-term decisions

The **leader** makes the medium-term decisions

The **programmer** implements the functionality and makes the short-term decisions

The **tester** finds the bugs

The **apprentice** programmer fixes the bugs

The **documentor** write the manual

The **communicator** tells other people how good it all is

The **distributor** packages it up for new users to try

How many of these roles can safely be filled by one person?

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

**UK national  
policies**

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion



# Why do we get involved in open source?

Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

Current issues facing OSS Watch

UK national policies

The JISC draft policy

A University Open Source Policy?

Conclusion

As either creators or consumers, we have a variety of motives for doing open source:

- to save money (*of course*)
- to share work (*enlightened self-interest*)
- because it works (*software engineering*)
- to learn (*apprentice work*)
- for fun (*someone has to find it fun*)
- for social justice (*break the capitalist system*)

but not very often because we are told to.

# Can we legislate for open source?

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

It is not unreasonable for government to consider:

- ways of saving money in public procurement
- trying to avoid duplicate effort
- promoting efficient development of IT systems
- allowing for skill development

Whether government has an agenda for fun or social justice is less clear!

Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

Current issues facing OSS Watch

UK national policies

The JISC draft policy

A University Open Source Policy?

Conclusion

[www.ogc.gov.uk/index.asp?docid=2190#finalreport](http://www.ogc.gov.uk/index.asp?docid=2190#finalreport)

**Viability of OSS** Open Source software is a viable and credible alternative to proprietary software for infrastructure implementations;

**Obstacles to implementation** ... for desktop applications, the current lack of complex functionality which can affect ease of migration and interoperability ...

**Costs and benefits** ... can generate significant savings in hardware and software costs for infrastructure implementation, and reduce the licensing costs and hardware refresh requirements for desktop implementation.

# Background 2: Recommendations from open source trials

Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

Current issues facing OSS Watch

UK national policies

The JISC draft policy

A University Open Source Policy?

Conclusion

Public sector bodies should:

- examine carefully the technical and business case for implementation of Open Source software and the role which OSS could play in current and future projects, working with their outsourced IT providers where appropriate;
- review the potential for server consolidation, comparing the benefits of OSS with proprietary solutions;
- consider the potential costs and benefits of migration to an OSS desktop for transaction users, (potentially in conjunction with use of 'thin client' architecture solutions);
- identify the role of open standards in future IS/IT strategy and policy, in conformance with the e-Government Interoperability Framework (eGIF);

## Background 3: more recommendations from trials

Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

Current issues facing OSS Watch

UK national policies

The JISC draft policy

A University Open Source Policy?

Conclusion

- consider requirements for the development of skills in Open Source development, deployment and operation within the organisation, and review the availability of such skills in their outsourced IT service providers;
- review their current infrastructure and applications — in collaboration with their outsourced IT providers where relevant — well in advance of any planned procurement or renewal, and determine whether current technologies and IT policies inhibit future choice; and if so consider what steps may be necessary to prevent future ‘lock in’
- consider the benefits of incremental change by diversifying OSS use beyond the server platform to products like Email, LDAP, Web and internet Browser.

(Material on these slides verbatim from eGU report)

# Background 3: eGif (e-Government Interoperability Framework)

Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

Current issues facing OSS Watch

UK national policies

The JISC draft policy

A University Open Source Policy?

Conclusion

<http://www.govtalk.gov.uk/schemasstandards/egif.asp>

- The e-GIF defines the technical policies and specifications governing information flows across government and the public sector.
- They cover interconnectivity, data integration, e-services access and content management.
- Version 6.0 contains the high level policy statements, management, implementation and compliance regimes, whilst technical policies and specifications are contained in the Technical Standards Catalogue (TSC).



# Justification for the UK government policy

Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

Current issues facing OSS Watch

UK national policies

The JISC draft policy

A University Open Source Policy?

Conclusion

- ... always procure a solution that gives value for money.
- There is a need to ensure that interoperability of systems is provided and maintained.
- Every effort should be made to reduce the cost and risk to government systems. Adopting this policy helps achieve that by:
  - acquiring best value for money solutions
  - removing the reliance on individual IT suppliers
  - providing more flexibility in the development, enhancement and integration of systems
  - vesting the ownership of bespoke and tailored software code with Government where this offers value for money.
- Security of government systems is vital.
- There is a need to maximise returns on and benefits from public investment in publicly funded R&D software

# What does the policy say?

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

[http://www.govtalk.gov.uk/policydocs/  
consult\\_subject\\_document.asp?docnum=905](http://www.govtalk.gov.uk/policydocs/consult_subject_document.asp?docnum=905)  
Version 2 28 October 2004

# The key decisions:

Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

Current issues facing OSS Watch

UK national policies

The JISC draft policy

A University Open Source Policy?

Conclusion

- UK Government will consider OSS solutions alongside proprietary ones in IT procurements. Contracts will be awarded on a value for money basis.
- UK Government will only use products for interoperability that support open standards and specifications in all future IT developments.
- UK Government will seek to avoid lock-in to proprietary IT products and services.
- Publicly funded R&D projects which aim to produce software outputs shall specify a proposed software exploitation route at the start of the project. At the completion of the project, the software shall be exploited either commercially or within an academic community or as OSS.

(Material on this page verbatim from [OSS Policy](#))

# The key decisions:

Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

Current issues facing OSS Watch

UK national policies

The JISC draft policy

A University Open Source Policy?

Conclusion

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# The key decisions:

Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

Current issues facing OSS Watch

UK national policies

The JISC draft policy

A University Open Source Policy?

Conclusion

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# The key decisions:

Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

Current issues facing OSS Watch

UK national policies

The JISC draft policy

A University Open Source Policy?

Conclusion

- UK Government will consider OSS solutions alongside proprietary ones in IT procurements. Contracts will be awarded on a value for money basis.
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Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

‘The policy on exploiting R&D software will not apply to software developed in the areas of defence, national security or law enforcement. It will also not apply to software developed by Trading Funds.’

- DTI, eGU and JISC will disseminate information on the distinct types of OSI compliant licences to support use, development and exploitation of OSS by government organisations and publicly funded R&D teams.
- DTI will include the R&D software exploitation policy in guidance on collaboration agreements. Research Councils will include the R&D software exploitation policy in guidance on research grants and contracts.
- DTI, Research Councils and JISC will explore the feasibility of providing unified access to publicly funded R&D OSS.
- eGU will explore with Government, industry and other stakeholders further activities to support OSS use in the public sector.



# Some possible FAQs

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

- How was this policy derived?
- Is this a law or a nice idea?
- How does it affect me in UK HE/FE?
- What software licence *should* we use, then?
- What do 'open standards' and other vague terms mean?
- Who will judge whether the rules have been followed?
- Who will assist in archiving and disseminating software?
- What does 'exploited within an academic community' mean?
- Is this policy integrated with an EU directive?
- How is the JISC responding to the policy?
- How do I go about re-assessing my institution's IT policy?

# Oz does it better?

Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

Current issues facing OSS Watch

UK national policies

The JISC draft policy

A University Open Source Policy?

Conclusion

Australian Government Information Management Office A *Guide to Open Source Software for Australian Government Agencies* contains good advice on:

- Degrees of engagement in open source
- Risk mitigation: the key risks involved in open source software are the same as those in proprietary software, with *additions*:
  - ① There can be multiple, independent, primary vendors for open source software to choose between.
  - ② As well as the usual range of support options, you can bring new feature development in-house and modify the core source.
- Licensing: includes six different scenarios and considers which of the more popular open source licences are likely to be applicable for each.

Overall a remarkably fair and sane presentation.

## Remember that

- Saving money is not always the best starting point.
- All take and no give is not conducive to the health of open source.
- HE does often have significant technical expertise in-house.
- The academic side of HE is not used to proper software procurement

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

**The JISC draft  
policy**

A University  
Open Source  
Policy?

Conclusion



# The JISC open source policy (draft)

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

The JISC policy was developed by OSS Watch in June 2004, revised in October 2004, and submitted to JISC committees in February 2005. It covers:

- 1 Policy guidelines for JISC when writing calls for proposals, ITTs etc
- 2 Policy guidelines for JISC services (and JISC projects generally)
- 3 Policy guidelines for JISC-funded software development activities specifically

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

- Copyright ownership of software, diagrams, schemas, documentation, manuals, user interface and source code must be recorded, and may be vested with a JISC-appointed body
- Projects must maintain an IPR register, listing all contributors to their software and who owns the copyright on contributions
- The ownership of code which is to be developed in joint projects must be established before work begins

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

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Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

- Copyright ownership of software, diagrams, schemas, documentation, manuals, user interface and source code must be recorded, and may be vested with a JISC-appointed body
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- Copyright of software, documentation, design materials, manuals, user interface and source code must be released under an OSI-approved open source licence, unless the bid explicitly argues why this should not be the case and proposes an alternative licence.
- Software must in any case be licensed and publicly available, for any use and at no financial cost, throughout UK higher and further education
- The open source licence most appropriate in any given circumstances will depend on the mechanism chosen for exploitation and/or on-going development.

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- The open source licence most appropriate in any given circumstances will depend on the mechanism chosen for exploitation and/or on-going development.

**Trademarks** Use of trademarks to establish reputation and trade on association is up to the project, not the JISC.

**Patents** Any patent applications associated with the project should not interfere with free distribution of software.

**Dependencies** Projects must record which associated software is needed to make their work run.

**Archiving** All documents and software code must have a preservation and archiving strategy.

**Testing and quality assurance** All software must have a testing framework in place, and demonstration of standards compliance.

**Version control** All software must be developed using version control software, and the history must be preserved by the project.

**Sustainability and communities** Projects should, where appropriate, encourage and support user and development communities.

**Documentation** Documentation must archive all forms of documentation, including mailing lists and forums.

**Software development and maintenance** Software should follow good engineering practice, and be demonstrable to, and testable by, peer communities.

# A University Open Source Policy?

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion



# A university problem?

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion

We need to deal with:

- individuals contributing to open source software
- staff creating software which they want to open source
- teachers making online resources
- research projects collaborating with industry
- partnerships with other academic institutions

- any act of creation generates copyright—it does not have to be claimed
- most academic contracts specify that all creations are property of the employer
- usually, there are specific exclusions for books and articles
- copyright in learning materials is usually claimed by the university
- the employee has a duty to assist the university in exploiting any created material
- software is hard (but not impossible) to patent



- the university's exploitation system for software only knows about selling licenses
- the university does not have a revenue-sharing arrangement for consultancy-based exploitation
- the lawyers are reluctant to sanction open source exploitation because they see it as liability without revenue
- if the university relinquishes copyright, it is at the risk of having to buy back a later release of the product

# Examples of (e-learning) open source exploitation in academia

Open source perspectives from the UK

Sebastian Rahtz

OSS Watch

Current issues facing OSS Watch

UK national policies

The JISC draft policy

A University Open Source Policy?

Conclusion

**uPortal** portal framework, development by top American universities ('stone soup' group) to meet their specific needs

**Bodington** Small UK open source VLE, developed by Leeds, Oxford, UHI; community based on shared problems

**Moodle** Simple but very effective VLE, distinguished by its exemplary open source community

**LAMS** innovative e-learning mediating framework, new work being funded under an open source model

The primary concerns for an educational institution's IT procurement strategy should be *demand* (that is to say, why do we need the system) and *value* (what will it cost us). Beyond that, the single most important consideration is the preservation of data and the interoperability of systems.

- 1 *New software acquisitions should demonstrate conformance to open standards and interoperability with open systems.*

At each point on the procurement and deployment chain, software should be assessed on its merits.

- 2 Open source and proprietary software options should be assessed using the same criteria, considering of total cost of ownership over the expected lifetime of the deployment.*

An institutional IPR policy should acknowledge the significant role played by open source methodologies in terms of potential exploitation routes.

- 3 *Software development by staff and students must maintain a register of IPR.*
- 4 *Software for which the copyright belongs to the institution must be exploited.*
- 5 *Open source licensing must be available as an exploitation method, and will be the default method where no alternative is proposed.*
- 6 *Income derived from services and training associated with an open source product must be shared with the developers using the same system as that used for patents and licensing.*
- 7 *The open source licence chosen should ensure that the institution is able to freely use all future versions of the*

There must be procedures in place so that staff can do work on open source projects in good conscience, without removing the protection afforded to the institution by retention of copyright.

- 8 *A register of officially-deployed open source software must be maintained for each unit.*
- 9 *A register of open source software for which staff may contribute code, documentation and support must be maintained for each unit. It must say whether contributions remain the property of the institution, or whether copyright has been assigned to a body maintaining the software.*
- 10 *Staff and students may deploy additional open source software for research or teaching, but may not contribute institutional intellectual property to it without explicit permission.*

Open source  
perspectives  
from the UK

Sebastian  
Rahtz

OSS Watch

Current issues  
facing OSS  
Watch

UK national  
policies

The JISC draft  
policy

A University  
Open Source  
Policy?

Conclusion



These are things we want to get into IT policies in the UK:

- 1 Embracing open source software is an attitude, not a binary choice
- 2 Open source is a valid, and a good default, exploitation route
- 3 Standards for your data are as important as current ease of use
- 4 **There is no stasis.** Things will always change