

Member's Briefing for the UK LOCKSS Alliance February 2011

Content Development

New Publishers participating in LOCKSS

Content from the following publishers is now available for preservation in the Global LOCKSS Network.

- Emerald Group Publishing
- Springer Science+Business Media
- PhyMath Central
- Cold Spring Harbor Laboratory Press
- Feminist Press at the City University of New York
- Friends Historical Association
- George Herbert Journal

Notable additions include Emerald Group Publishing, who have committed more than 270 e-journal titles, and Springer Science+Business Media who have committed nearly 42,000 e-books, more than 2000 e-journals, and 174 e-Reference works.

JISC Collections NESLi2-SMP Survey

On behalf of UK LOCKSS Alliance members, JISC Collections have offered to undertake negotiations with NESLi2-SMP publishers identified as a priority, to seek inclusion of their titles in LOCKSS. A consultation survey will be circulated in Q1 2011 to prioritise negotiations.

System Development

Transition to Linux

All institutions running LOCKSS should now be considering their transition from the OpenBSD platform to using LOCKSS on Linux. Guidance on the transition is available online from:

http://www.lockss.org/lockss/Installing_LOCKSS

Please note in particular the section regarding the "OpenBSD to Linux Content Transition". To transition content, at minimum you will need replacement hard disks. The following configurations are automatically handled by the LOCKSS on Linux installation CD.

- We recommend at least 2TB of available disk space, using two 2TB disks configured with RAID1.
- Three or more 2TB disks configured with RAID5 is preferable.
- If you are sourcing new hardware, we recommend a machine with four disk controllers. If you plan to upgrade or move to a virtual environment, now is a good time.

Why is software RAID recommended?

Disk sizes have increased enormously since LOCKSS was launched but disk and network data rates have not. It is no longer reasonable to depend solely on the peer-to-peer network to recover from total loss of an entire disk's content. RAID cannot protect against all the threats that LOCKSS does, but using RAID5 greatly reduces the time to recover from a disk failure, for a small price increment (33% premium in disk cost in our recommended configuration).

A combination of RAID along with the preservation capabilities of LOCKSS ensures maximum availability (minimum impact of total disk loss) and maximum reliability (minimum probability of data loss).

We can provide support to help you through the transition process. As a first step, please consider hardware options for a Linux machine and then contact edina@ed.ac.uk, describing how you intend to proceed.

Library Access to Archived Content using Link Resolvers

The LOCKSS team is currently completing the development work required to integrate LOCKSS with link resolver systems, due for release in early 2011.

Integration of LOCKSS with link resolver systems such as SFX and 360 Link is an effective way for libraries to provide reliable access to the digital content that they own, even if they lose access to it through the publisher - either temporarily or through withdrawal of the publication or cancellation of the subscription. LOCKSS has been enhanced to:

1. Generate metadata on the titles preserved by LOCKSS in KBART format. Using this functionality, link resolver vendors can be supplied with a knowledge base describing the titles available via LOCKSS, and libraries can generate holdings information on their own collections for use in other library systems.
2. Receive, interpret and respond to requests for archived content in terms of bibliographic data encoded in OpenURL format. This allows link resolvers to encode a user request as an OpenURL, and redirect the request to the local LOCKSS box.

The LOCKSS team is currently working with Serials Solutions and Ex Libris to allow libraries to configure and supply access to their preserved collections. A white paper describing the new functionality is available from:

http://www.lockss.org/locksswiki/files/SFX_Integration_White_Paper.pdf

When the functionality has been tested and released, we will schedule a training webinar for UK LOCKSS Alliance members to support integration at UK institutions.

Operational Development

UK LOCKSS Alliance Website

We are re-launching the UK LOCKSS Alliance website in mid-February 2011, to increase the accessibility of current news and existing resources. Current members should find it easier to learn about the activities of the UK LOCKSS Alliance, and for interested institutions to see the benefits of participation.



UK LOCKSS Alliance joins the Digital Preservation Coalition

The UK LOCKSS Alliance joined the Digital Preservation Coalition (DPC) as an Associate Member in December 2010.

The DPC is a not-for-profit membership organisation whose primary objective is to raise awareness of the importance of digital material and the associated strategic, cultural and technological issues. The UK LOCKSS Alliance's focus on ensuring preservation and continuing access to electronic journals makes it a natural fit within the DPC membership.

A key incentive was to further develop a coherent national response to the preservation of scholarly material, and membership will help promote awareness of the UK LOCKSS Alliance to other UK bodies and organizations. The UK LOCKSS Alliance jointly organised a workshop with the DPC in April 2010 and we look forward to new opportunities for collaboration.

Meeting of the UK LOCKSS Alliance Steering Committee

The second meeting of the UK LOCKSS Alliance Steering Committee was held on the 2nd November 2010. Minutes are available at: http://edina.ac.uk/lockss/steering_committee.html.

The steering committee focuses on six thematic areas: Finance and Reporting; Policy; Promotional and Outreach; Technical Infrastructure; Operation and Access; and Collection Development and Management. The steering committee is in the process of ratifying the strategic plan for the UK LOCKSS Alliance.

The Steering Committee welcomes the participation of more members to contribute to development of the initiative. To find out more, please contact edina@ed.ac.uk.

UK LOCKSS Alliance Membership

Listed below is the current set of institutions participating in the UK LOCKSS Alliance in 2010/11.

- De Montfort University
- Durham University
- King's College London
- London School of Economics
- Royal Holloway, University of London
- University of Birmingham
- University of Bristol
- University of Edinburgh
- University of Glasgow
- University of Hertfordshire
- University of Huddersfield
- University of Hull
- University of Newcastle Upon Tyne
- University of Oxford
- University of Salford
- University of St Andrews
- University of Sussex
- University of Warwick
- University of York

LOCKSS in Europe

LOCKSS is being used as a preservation layer to support Germany's national hosting strategy.

The German *LOCKSS-und-KOPAL-Infrastruktur-und-Interoperabilität (LuKII)* project proposes



interoperability between the open-source elements of two existing archiving systems (LOCKSS and KOPAL) in order to combine cost-effective bitstream preservation with an established tool for usability maintenance and format migration.

KOPAL is a technological and organizational solution to ensure the long-term availability of electronic publications, and LOCKSS will provide a preservation layer behind the KOPAL repository. Primarily, material is deposited into KOPAL from two partner organizations, the German National Library and the Niedersaechsische Staats- und Universitaetsbibliothek Goettingen (Goettingen State and University Library), however the LuKII project will test interoperability by archiving data from German institutional repositories.

Based on these goals the chief elements of this project are:

- To establish a cost-effective LOCKSS network in Germany including infrastructure to provide ongoing technical support and management for LOCKSS and its variants (e.g. CLOCKSS);
- To conceptualise and implement interoperability between LOCKSS and KOPAL in order to combine cost-effective bitstream preservation with well-developed usability preservation tools; and
- To test the interoperability prototype by archiving data from German institutional repositories.

Meetings and Events

UK Serials Group Conference 2011

Colleagues at the London School of Economics will be presenting a breakout session at the UK Serials Group conference 2011, describing their experiences with LOCKSS and how it fits into their institutional activities.

The UKSG Conference runs from 4-6th April 2011 at the Harrogate International Centre.

Research Libraries UK Conference 2010

EDINA led a parallel session in November 2010 at the RLUK Conference 2010 in Edinburgh entitled "Community action to ensure and afford continuity of access to scholarly content", which brought together representatives from the UK LOCKSS Alliance, CLOCKSS and the UK Research Reserve (UKRR). The intention was to consider these initiatives as related activities of interest to UK libraries, engaging with libraries to encourage coherence, join-up and a strategy for their ongoing development.

Chaired by Geoff Gilbert, Birmingham University, the session began with Peter Burnhill of EDINA delivering a strategic overview of current initiatives, using PEPRS as an example of a support activity to discover 'who is doing what', and of CLOCKSS as an example international initiative. Francis Boyle described the activity of the UKRR and the enthusiasm the initiative has generated within the community. Adam Rusbridge then described how the members of the UK LOCKSS Alliance were addressing their local preservation requirements through coordinated activity.

The RLUK session had been motivated by the DPC/EDINA/JISC 'e-Journals are Forever'



workshop held in April 2010. Discussion at this event had considered the relatively low library participation in preservation services, with some feeling the issue would benefit from additional attention at senior university level. This session was an opportunity to move this forward, and we consider it a valuable first step. Throughout 2011 the UK LOCKSS Alliance will continue to explore ways to engage with senior librarians and to consider what additional support is needed, at an appropriate level of detail.

Related Activities

Continuing Development of PEPRS

The PEPRS project has continued into a second phase of development, running from August 2010 until December 2012.

Following consultation with librarians and preservation agencies throughout spring and summer 2010, the project team released requirements to be incorporated into the beta service implementation. These were made available in November 2010 at http://edina.ac.uk/projects/peprs/docs/PEPRS_Beta_Requirements_Nov2010.pdf

A beta service is scheduled for release in Q1 2011. For more information on PEPRS see: <http://www.edina.ac.uk/projects/peprs>