Standards Column -- Electronic Resources: Challenges and Opportunities

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work a lot,” one said it had helped somewhat, and one said it had had no effect. This consensus is remarkable because the common opinion is that library staff tends to be resistant to change, making a 2.0 tool like a wiki hard to implement successfully. Only a few months after the move to the wiki, our staff unanimously preferred it to the former documentation.

As part of the survey, I also asked the ordering staff to write in their opinions of the advantages and disadvantages of the wiki. Interactivity, such as the ability to add comments and suggestions, was frequently listed as an advantage. The other benefit cited by several staff members is the clear linking within the wiki to other departments’ Websites. One respondent wrote the best thing about the Consul procedures is “having other units’ procedures ‘up front’ and available.”

The main disadvantage mentioned by respondents was searching. Staff members wrote they wanted to be able to search by keyword. This is possible in Confluence, but not immediately obvious. There is a search box that searches across all “spaces” within Stanford’s installation. After an initial search, you can limit results to a particular space. The labeling I have done to link documents within the ordering space is another option for searching. The staff response on this subject shows a need for more training in Consul searching.

**The Future**

The consensus of the ordering staff was that a wiki platform for the unit’s procedures was beneficial to acquisitions work. Procedures are kept current and we save managerial time with a tool that allows quick and easy Web updating. Since the creation of the ordering space, I have trained the managers of the other units within our Acquisitions Department to create and populate Consul spaces. At this point, every Acquisitions unit is in the process of transitioning to the wiki, and many other groups in the Stanford Libraries are creating spaces as well. Ultimately, as we standardize the tools we use for documenting procedures across the libraries, we will enable better cross-linking between units and as a consequence, a better and broader understanding of library processes.

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Biz of Acq — Sample Magazine
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discipline. The committee was caught between trying to do the right thing — which included explaining why a title was being canceled and conveying thoughtfulness, regret, and offers to find other libraries that subscribe — and simply conducting its business in a vacuum, inside the library and outside of the Pratt Institute community. The acquisition of full-text, multidisciplinary databases seriously improved the availability of journal articles in subjects like history, cultural studies, and literature.

At the time of the author’s departure from the PIL, the committee had nearly exhausted potential cancellations. The process of selecting new titles will become more difficult now that the collection of currently received titles has been so well tuned and shaped. It is inevitable, however, that numerous titles — even popular ones — will become defunct. Money may be freed up as a result. It is also possible that the budget will be increased due to patron satisfaction and interest in the periodicals, many of which are available exclusively in the print format.

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Standards Column — Electronic Resources: Challenges and Opportunities

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The management of digital resources has never been an easy process. The rapid expansion of digital resources compounded with changing formats and sales models in the short life of Web-based delivery systems has particularly made the management process more complex. Further, from the very beginning, details relating to purchasing, licenses, access, and usage have been kept in ad hoc systems built by in-house teams or the individual librarian needing to organize her workflow. It is hard to recall the days when digital resources played only a minor role in library management discussions.

It is from these very humble beginnings that a fairly robust community of vendors and librarians developed an entirely new type of library system — the E-Resource Management System (ERMS). There are now several vendors providing more or less integrated ERMS services. The most dominant vendors of these systems are Ex Libris, Innovative Interfaces Inc., and Serials Solutions. There are also community-developed projects such as Colorado Alliance’s Gold Rush systems as well as open source systems, such as HERMES at Johns Hopkins University. In addition, there are likely dozens (or more) homegrown systems that librarians are using to address complex management details. Even without a formal system in place, however, nearly every library is dealing in its own way with the acquisition, license, title, integration, and usage data information that accompany digital content.

NISO held a two-day seminar in Denver during September to bring together systems vendors and a diverse cross-section of librarians who are at different stages in the process of implementing a formal ERMS. It became apparent that these systems are relatively early in their development and deployment, despite some successes. Approximately one-third of the attendees had an ERMS in production, while the balance of the participants were either just implementing one, in the process of acquiring one, or still considering whether to purchase an ERMS. During this event we also learned that only about 400 institutions have functioning systems in development or production nationwide. Among the issues that were discussed at this forum were the role of ERMS systems in the library; the ERMS relationship to and interoperability with the standard ILS; which functionalities were most critical for adoption and use; and some of the barriers to implementation that have been experienced by the attendees.

When considering the amount of funds invested in electronic resources, the anecdotal indication from the group that gathered in Denver is that not nearly enough staff resources are being dedicated to the ERMS acquisition and content-management lifecycle. Among ARL libraries, the average percentage of materials budget spending on electronic resources in 2005-06 is 42%, or nearly $3.6 million, with the highest percentage being 73%. This expense amount is up 20% from the year before. The median percentage is up 5%. Despite this growing trend, we learned that even at some of the largest institutions, where annual acquisitions investment for electronic content is in the millions of dollars, fewer than five full-time staff are responsible for the full management of electronic resources and their acquisition lifecycle. Compared to the staff resources dedicated to managing the print material acquisition and management process, the e-resource IR investment seems modest. Obviously, every institution could use more staff, but the relative investment in print compared with the growing investment in digital content will necessitate changes in staff allocation that go well beyond the scope of having a system that manages these resources.

Perhaps the lack of staff resources is part of the reason that a relatively small number of the ERMS that have been purchased are up and running, or producing the anticipated results. To effectively populate, manage, and use these systems a significant time investment and significant shifts in organizational culture are required, steps that many institutions have yet to make.

One barrier to adoption that was discussed was the complexity of the problems that ERMS are trying to address, complicating the difficulty of rolling out such a system. Larger issues such as adapting workflows, restructing staff resources to manage digital content, and systems interoperability with existing management tools were also pointed out as causes of delayed implementation. The sheer scale of the volume of data...
that is expected to be managed by ERMS is also an obstacle, and is an issue where many organizations hope standards can help to make the process of populating the systems easier. NISO and the vendor community are working together to help find standards solutions to this problem in order to help alleviate the challenges that librarians face as they work with these systems.

Key among the issues under development at NISO is the need for interoperability and common structures around which data exchange models can be built. Licensing and license expression, usage data, interlinking content, purchasing and EDI: each of these areas of management has its own challenges. During his presentation, Oliver Pesch, Chief Strategist of E-Resources, EBSCO Information Services, outlined the scope of the problem as it relates to the data elements in the Digital Library Federation ERM data structure. This model contains 315 data elements for tracking electronic resource content. While a significant percentage of data is possible for agents and publishers to provide, the remaining elements still require significant library time, staff, and energy to track. Important questions for people engaged in developing an ERMS are: How practical is it to track all of this data? To what extent can a smaller data model — which might facilitate a less robust but more manageable system in the end — be used?

For NISO, then, the question is: What can NISO do to help further the state of the art in the information flow of management information for electronic resources? With the increased use, creation, and expenditure on e-resources, the need for standardization is becoming even more significant. There are several initiatives underway at the moment that focus on interoperability and functionality of ERMS. For instance, NISO’s License Expression Working Group (LEWG) is mapping the DLF ERM data model to the new ONIX-PL (Publication License) format, which is part of the ONIX family of standards developed by EDItEUR. ONIX-PL is an XML structure that encodes the numerous terms of a license, including a means for the library to identify whether that use is allowed, prohibited, or open for interpretation. This format will provide a mechanism for publishers to provide information on their licenses in machine-readable format for population of an ERMS. It is important to note that expression of license information does not remove the ability of institutions to negotiate or interpret licenses; it is simply a means of computer-to-computer transfer of the agreed terms.

The second critical aspect of ERMS development, in which NISO is engaged, is the recently passed SUSHI standard for transmission of usage data between publishers and libraries (NISO Z39.93-2007). While SUSHI is focused at the moment on the packaging and transmission of usage data, the underlying model of SUSHI — that is, machines commu-

I Hear the Train A Comin’ –

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This past November, in what has become an annual tradition at the Charleston Conference, we took the I Hear the Train A Comin’ column live. Two esteemed speakers, Ian Russell, Chief Executive of the Association of Learned and Professional Society Publishers (ALPSP), and James Mullins, Dean of Libraries and Professor of Library Science at Purdue University, provided some fascinating insights into what is coming around the bend in the land of scholarly communication. More analysis and discussion of their speeches will no doubt dot the pages of Against the Grain in upcoming issues. In my efforts to frame the Charleston discussion, I sought the help of a panel of experts who might offer some learned prognostications about a handful of “big picture” questions. The session was very much an exercise in crystal-ball, an activity that seems to me to benefit from collaboration.

The following people were generous with their time and their feedback (I should note that the views expressed are their own rather than their employers): Peter Binfield, Sage; Pamela Bluh, Association for Library Collections & Technical Services; Ron Boehm, ABC-CLIO; Jane Burke, ProQuest; Paul Courant, University of Michigan Libraries; Joe Esposito, Consultant; Rick Johnson, Former Head, SPARC; Sally Morris, Former Head, ALPSP; Jim Neal, Columbia University Libraries; Beki Simon, University of California Press; Peter Suber, Open Access Advocate; and