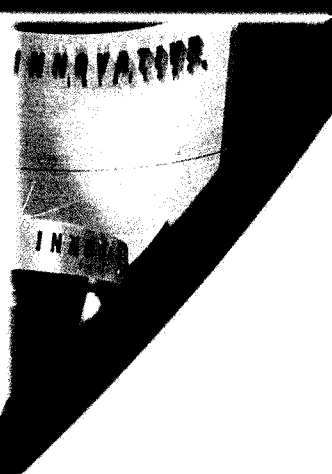
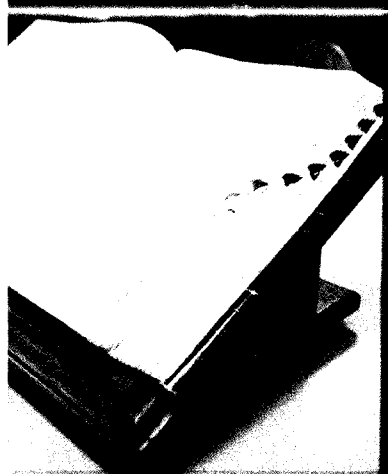


INNOVATIVE
interfaces



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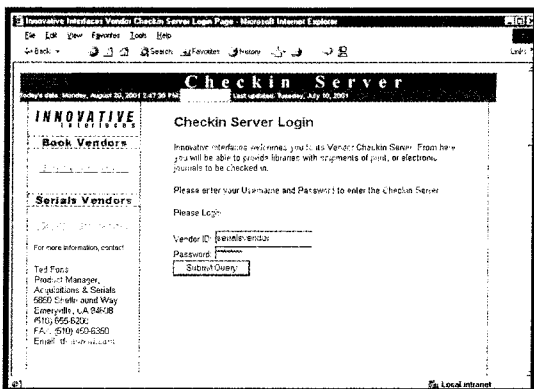
Serials E-Checkin

Millennium Serials E-Checkin is an original product developed by Innovative to streamline hours' worth of labor into a simple process that takes just minutes.

This powerhouse product will enable libraries to:

- Eliminate the labor- and time-intensive manual process of updating serials checkin records when new print or electronic journal issues are received
- Maintain an accurate inventory of electronic journals (e-journals) with ease and efficiency
- Provide enhanced Web OPAC access to e-journals at the issue level
- Make use of cutting-edge XML technology to improve electronic interaction with serials vendors

Electronic Journals



Innovative's Serials E-Checkin uses input from the serials vendors or e-journal publishers to record the checkin transactions. Suppliers transmit an Electronic Packing Slip (EPS) directly to the library's Millennium server. The EPS is an XML document that contains all the information of a packing slip, including an identifier for the specific issue (SICI) and an issue-level URL (for e-journals). Upon receipt of an issue, the system automatically processes the EPS and updates the checkin records with new issue information.

While many libraries have embraced the ease of electronic subscriptions for serials in place of traditional print subscriptions, this new approach has presented complications for serials staff. Without an automated method of tracking e-journals, the library had no systematic way to determine whether their e-journal subscriptions were being fulfilled. Serials E-Checkin offers a comprehensive solution to maintaining these subscriptions.

Because the Millennium Web OPAC supports issue-level URLs for e-journals, the issue appears in the library's Web OPAC immediately upon checkin. Patrons benefit from enhanced issue-level access to e-journals directly from the Millennium Web OPAC.

Serials vendors are eager to provide this data, as it adds value to their e-journal subscription services, and is consistent with the trend toward license negotiation and e-journal Web-site hosting. By packaging issue-level data in an XML EPS, vendors have the flexibility to provide libraries with issue information for their "shelf-ready" serials services, as well.



Print Journals

The screenshot shows the Millennium Serials eCheckin interface. At the top, there are menu options: File, Edit, View, Go, Admin, Tools, Help. Below that, the 'eCheckin' window is active, displaying a table of journals. The table has columns for Vendor, Statement Number, Statement Date, Type, and Status. Below this, there is a 'Checkin Date' field set to 11-21-2001, and buttons for 'Create Form', 'Print Label', 'eCheckin', 'Show', and 'Processing'. The main table lists various journals with columns for Title, SICI, Total Copies, Copies To Process, Copies Processed, and Barcodes. The journals listed include Silicon Industries, Studies, Developing world bibliographics, The international journal of health plans, Journal of economic surveys, Journal of human movement studies, Cultural Studies, Foliole international, International book journal, History of Education, Journal of e-service education, Women's history review, Special language research, Educational management and administration, International Journal of Science Education, Theoretical research in ergonomics, Multicultural education abstracts, Documents Ophthalmologica, Prospects, and Prospects.

Title	SICI	Total Copies	Copies To Process	Copies Processed	Barcodes
Silicon Industries	0037-4954(2001)06:1-1	1	1	0	
Studies	0268-9902(2001)5:06:1-5	1	1	0	
Developing world bibliographics	1471-8731(2001)12:1-5	1	1	0	
The international journal of health plans	0749-6753(2001)16:2:1-0	1	1	0	
Journal of economic surveys	0950-0705(2001)15:2:1-7	1	1	0	
Journal of human movement studies	0386-7474(2001)14:05:1-4	1	1	0	
Cultural Studies	0950-2386(2001)15:3:4:1-#	1	1	0	
Foliole international	1566-4530(2001)1:4-0	1	1	0	
International book journal	0260-1962(2001)15:1:2-2	1	1	0	
History of Education	0346-2694(2001)30:2:1-6	1	1	0	
Journal of e-service education	1587-4382(2001)1:1:1-7	1	1	0	
Women's history review	0961-2024(2001)18:3:1-3	1	1	0	
Special language research	0767-6583(2001)17:1:1-8	1	1	0	
Educational management and administration	0262-211X(2001)29:4:1-4	1	1	0	
International Journal of Science Education	0250-0693(2001)23:10:1-6	1	1	0	
Theoretical research in ergonomics	0207-0870(2001)11:1:1-11	1	1	0	
Multicultural education abstracts	0265-8770(2001)19:3:1-6	1	1	0	
Documents Ophthalmologica	0012-4480(2001)140:3:1-1	1	1	0	
Prospects	0133-4526(2001)33:1:1-4	1	1	0	
Prospects	0035-1430(2001)33:1:1-4	1	1	0	

Serials E-Checkin will also automate the checkin of print issues. Traditionally, library serials staff have had to manually update records each time a new issue is received. Working from printed packing slips and lists of issue information, records had to be updated one at a time. With the use of Electronic Packing Slips, Serials E-Checkin does all the work. Direct server-to-server communication results in a more efficient and more reliable checkin process, and the use of a dedicated XML DTD (Document Type Definition) ensures the EPS format is standardized across the industry.

Innovative has also developed an XML DTD for use with Serials E-Checkin, which will likely become the de facto standard for libraries and suppliers alike. Innovative is the first library automation vendor to embark on this type of development. The underlying architecture of Millennium and Innovative's commitment to Web-based computing offer libraries the opportunity to adopt this new technology with confidence.

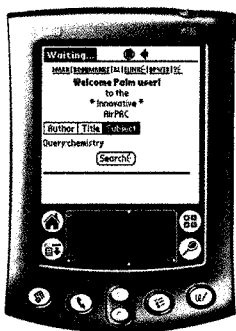


Taking the OPAC Beyond the Desktop Browser

The online searching environment is becoming increasingly complex as client technologies diverge from the standard PC-based Web browser into new arenas. In order to keep up with these changes, the visually-oriented World Wide Web is changing to accommodate new software such as wireless Web browsers.

AirPAC has been designed as an additional OPAC solution for patrons using alternate access technology such as mobile phones or PDAs with wireless capability. AirPAC delivers the power of Innovative's OPAC searching to all library patrons while maximizing readability for a new generation of Web searching clients.

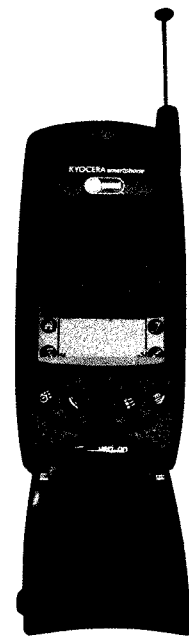
Access The Library OPAC: Any Time, Any Place, Any Device



Whether users are searching the catalog from a mobile telephone or Palm™ device with wireless access, AirPAC is the answer. AirPAC delivers the power of Millennium searching, including Advanced Search, limiting and sorting of results, and library-defined catalog record and holdings displays. Patrons can now walk through the library stacks with the Millennium OPAC in the palm of their hands, allowing them to issue searches against live catalog data and retrieve item information (e.g., location, call number, and real time data about status and availability). Patrons can interact with the Millennium system from anywhere accessible by wireless networks, allowing a user to place a hold from a classroom, check due dates and renew items during a long commute, or search the catalog

while running errands to find the closest library branch where a desired title is held.

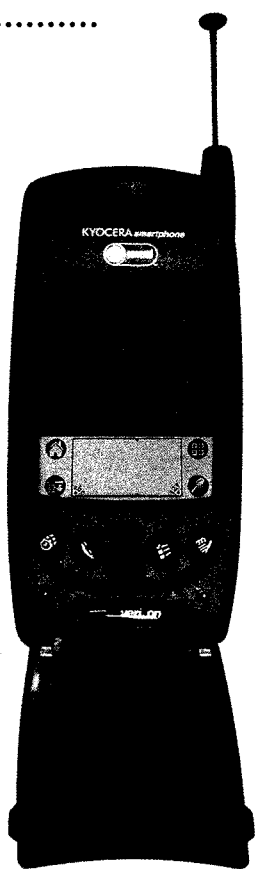
AirPAC formats user displays on the fly for the specific client device a patron is using, without library- or user-profiling. The AirPAC server detects the user agent of every request and optimizes screens for display and usage on that client, from desktop PC-based browsers to mobile phones or wireless PDAs such as Palm, Handspring™, and Pocket PC devices. AirPAC is positioned to quickly respond to future trends in wireless access technologies, allowing libraries to easily add new user-agent profiles on demand from user populations.



Personalized Search Sessions

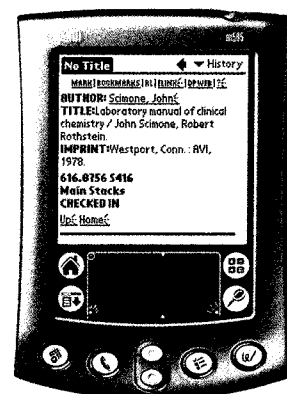
AirPAC is part of Innovative's ongoing development to create an OPAC product that transparently tailors the search session to the individual user. AirPAC supports the following features to personalize the patron's OPAC experience:

- Scoping: Patrons can search within the collection of their home library or branch location, or search other branches or locations to find holdings nearest to them.
- Internationalization: AirPAC fully supports Innovative's many user-interface languages for display of data and translation of user-interface prompts, examples, and messages.
- Patron features: Patrons can view their own record after verifying themselves to the Millennium system, allowing display of checked-out and held items, due dates, fines information, and personal information.
- User-agent recognition: Output screens are formatted on the fly based on the user agent issuing the request, dynamically optimizing display and usability for the specific device and software package.
- Standards compliance: AirPAC screens are designed in compliance with Section 508 of the Rehabilitation Act and the Priority 1 checklist of the Web Accessibility Initiative of the W3 Consortium, and are tested to ensure that AirPAC screens are compliant with screen reading technology and similar tools to facilitate access for the visually impaired user.



State Of The Art Architecture

AirPAC continues Innovative's tradition of Web-based library computing to deliver a flexible product built on industry standards and state-of-the-art technology. A highly flexible and extensible architecture is essential to meet libraries' accessibility needs as they are continually transformed by emerging access technologies. AirPAC is an HTTP server that extracts catalog data in XML format from the Millennium system and employs JavaServer Pages™ to format the output for the specific user agent.



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