**LibID, should my library have?**

Wiktor Rzeczkowski
McMaster University Library

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**ABSTRACT**

LibID is an authorization-based service model for control of access to library online resources. LibID can help libraries to:

- Address access control problems
- Provide better service
- Achieve better service recognition

**ACCESS CONTROL PROBLEMS**

Control by institution’s IP address range

- No id/password needed, but some resources cannot be accessible, others can be

Control by dedicated single authenticator

- Single id/password for multiple resources, but access by ineligible users can occur

Control by each resource

- id/password for each resource, resource must be able to determine eligibility

**LibID AUTHENTICATION and AUTHORIZATION**

LibID Service

- Authentication
- Authorization

Custom Interfaces
- LDAP

Custom and Standard Interfaces

**CAN ACCESS BE GRANTED FOR (libalex, alexPass, r2) ?**

<table>
<thead>
<tr>
<th>LibID ID</th>
<th>Password</th>
<th>Name</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>libalex</td>
<td>alexPass</td>
<td>Alex Fox</td>
<td>Geography</td>
</tr>
</tbody>
</table>

**LibID AUTHENTICATION**

- LibID receives three parameters, the user’s LibID ID and password plus the resource ID, and determines if the user should be permitted to access the resource or not
- E.g., LibID determined that access by Alex Fox to the subscription database should be denied

**LibID AUTHORIZATION**

- LibID supports multiple service interfaces
- E.g., a Drupal-based resource could use LDAP LDAP interface to determine if access should be granted or denied

**CONCLUSIONS**

**Better Access Control**

- Any library resource accessible by authorized users
- Any library resource accessible only by authorized users
- Access authorizations for user groups and resource groups
- Better adherence to resource license terms

**Better Service**

- Access to more limited access resources
- Access to limited access resources by more authorized users
- Access to limited access resources by authorized external users
- Access to any authorized resource with a single library LibID ID and password
- Per LibID ID customized authorized resource menus and personalized services

**Better Service Recognition**

- When received through library own LibID, library services are recognized better
- Fine resource authorization capability is distinctive

**RELATED WORK**

- LERA – Library Electronic Resource Authorization
  Wiktor Rzeczkowski, McMaster University Library
  Support for authorization of individuals and groups
  In service (for over 10 years)

- ORB – Online Resource Buddy
  Bringing authorized remote CD-ROM databases to user’s Windows desktop
  Wiktor Rzeczkowski, Francesco Zizzo, McMaster University Library, 2005

- LDAP authentication/authorization
  Wiktor Rzeczkowski, Matt McCollow, Debbie Lawlor, John Fink
  McMaster University Library, 2015
  In service

**Note on term LibID**

- To mean the library authentication and authorization service, first used late in 2014 by Wiktor Rzeczkowski at McMaster University Library
- Inspired by MacID, the name of McMaster University authentication service
- LibID is an acronym for London Interbank Bid

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