IESR: Providing a Catalogue of Resources for Portals

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MIMAS, University of Manchester
JISC Information Environment Service Registry

- Purpose of IESR in IE - relevance to portals
- IESR content description
- Types of technical services described
- IESR’s interfaces
- Implementation of IESR
- Future of IESR within JISC IE
Why IESR?

• JISC Information Environment:
  – Collections of resources for researchers, learners, teachers in UK
• Single central catalogue - m2m access
  – Improve awareness and access
• Funded by the JISC:
  – MIMAS, UKOLN, University of Liverpool
  – Prototype Registry developed at MIMAS
IESR for Portals

• Portal: amalgamated set of resources
  – using: cross-searching, harvesting, alerting
• IESR provides:
  – Discovery of resource collections
  – Details of access to collections
• Using IESR, portal could:
  – Cross-search including collections
  – Link to collection web pages
  – Harvest IESR data, etc
IESR Content

• Descriptions of:
  – Collections of resources
  – Informational Services that provide access
  – Agents: Owners / Administrators
  – Transactional Services
• Supplied by resource providers
• Quality check by IESR content manager
IESR Type: Collection
Title: Archives Hub
Collection Id: http://purl.org/iesr.ac.uk/10844455550-112338
Coll Description: The Archives Hub contains descriptions of archival collections that are available for research in universities and colleges, including descriptions for the archives of a wide range of individuals, families, and organisations, from medieval times right up to the present day. At present these are primarily at collection-level, although where possible they are linked to complete catalogue descriptions. Descriptions usually contain biographical information about the individual who created the archive or a history of the business or organisation, information about the types of records contained in the collection, with an indication of the subject areas and dates that they cover. Information about the archive or library, any restrictions on access to the collection, and index terms that record key people, places and topics. To see the archives themselves, you will need to visit the institutions which look after the collections. Each Archives Hub description contains a link to ARCHON, the Historical Manuscripts Commission's website which maintains up-to-date listings of contact details for archives, libraries and record offices.
Collection Type: Catalogue Finding-Aid Archive
Language: en
Coll hasService: http://purl.org/iesr.ac.uk/10844455550-112338; http://purl.org/iesr.ac.uk/10844455550-115559
Coll Copyright: Materials contained in the Archives Hub are subject to copyright and other proprietary rights
Coll Use: Materials contained in the Archives Hub are subject to copyright and other proprietary rights
Rights: Freely available
Collection Licence: http://www.archiveshub.ac.uk/opspsmall2.gif
Logo:
Subject (COC): 017, 018, 091, 100, 200, 300, 400, 500, 600, 700, 800, 900
Subject (LCSH): Academic libraries; Archival materials; Archival resources; Archives; Archives Catalogs; Arts; Humanities; Libraries / Special collections; Manuscripts; Science; Social sciences; Technology
Subject (UNESCO): Academic libraries; Archives; Arts; Science; Social sciences
Temporal: 1100v
<table>
<thead>
<tr>
<th>Service</th>
<th>1</th>
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<tbody>
<tr>
<td>Service Title</td>
<td>Archives Hub Quick Search</td>
</tr>
<tr>
<td>Service Id</td>
<td><a href="http://purl.org/poli/iesr.ac.uk/1084445246-9103">http://purl.org/poli/iesr.ac.uk/1084445246-9103</a></td>
</tr>
<tr>
<td>Service</td>
<td><a href="http://www.archiveshub.ac.uk/quick.shtml">http://www.archiveshub.ac.uk/quick.shtml</a></td>
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<tr>
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<td>webpage</td>
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<tr>
<td>Access Method</td>
<td>text/html</td>
</tr>
<tr>
<td>Service Help</td>
<td><a href="http://www.archiveshub.ac.uk/searchhelp.shtml">http://www.archiveshub.ac.uk/searchhelp.shtml</a></td>
</tr>
<tr>
<td>Svc Administrator</td>
<td><a href="http://purl.org/poli/iesr.ac.uk/1084445246-9103">http://purl.org/poli/iesr.ac.uk/1084445246-9103</a></td>
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<table>
<thead>
<tr>
<th>Service</th>
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<tbody>
<tr>
<td>Service Title</td>
<td>Archives Hub Z39.50 target</td>
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<td><a href="http://purl.org/poli/iesr.ac.uk/1084445560-11559">http://purl.org/poli/iesr.ac.uk/1084445560-11559</a></td>
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<tr>
<td>Service</td>
<td>z3950s://inwil.mimas.ac.uk:1212/archub</td>
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<td>Location</td>
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<tr>
<td>Interface</td>
<td>z3950</td>
</tr>
<tr>
<td>Access Method</td>
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</tr>
</tbody>
</table>
IESR Entities

Collection

Service

Agent

provides access

owns

administers
IESR Identifiers

- Every entity has a URI
- Assigned on registration in IESR
- Provide identification for resources in IE
- PURL-based Object Identifier (POI)
- Links between entities in IESR
- Example:
  http://purl.org/poi/iesr.ac.uk/105636559-25788
IESR Collection Metadata

- Based on RSLP Collection Description
- Simplification for electronic resources
- Backbone subject scheme (Dewey)
- Some additional IESR terms
  - hasService: IESR id (service)
  - usesControlledList
- Owner: IESR id (agent)
IESR Service Metadata

- More than RSLP CD ‘locator’
- Bespoke IESR scheme, uses open standards
- Single access method:
  - Z39.50, SOAP, OAI-PMH, Web/CGI
- Location URL
- Interface property for some service types
- Administrator: IESR id (agent)
JISC Information Environment Service Registry

IESR Full Record

Displaying Record 1 of 1.

Service Title: Arts and Humanities Data Service
Service Id: http://purl.org/oisr/iesr/1088607166-14588
Service Location: http://www.ahds.ac.uk/development/kirepos/oai
Access Method: oai-pmh
Access Control: none
Service Standard: oai-pmh-2.0
Svc Administrator: http://purl.org/oisr/iesr/1088606945-12888

All IESR records are licensed under a Creative Commons Licence, Attribution Required, Non-Commercial, Share-Alike.
<table>
<thead>
<tr>
<th>Search terms:</th>
<th>(anywhere=1077197306-5288)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agent</td>
<td>1</td>
</tr>
<tr>
<td>Agent Name</td>
<td>EDINA</td>
</tr>
<tr>
<td>Agent id:</td>
<td><a href="http://purl.org/purl/iesr.ac.uk/1077197306-5288">http://purl.org/purl/iesr.ac.uk/1077197306-5288</a></td>
</tr>
<tr>
<td>Agent:</td>
<td>EDINA, based at Edinburgh University Data Library, is a JISC-funded national datacentre. It offers the UK tertiary education and research community networked access to a library of data, information and research resources. All EDINA services are available free of charge to members of UK tertiary education institutions for academic use, although institutional subscription and end-user registration are required for most services.</td>
</tr>
<tr>
<td>Telephone:</td>
<td>+441316503802</td>
</tr>
<tr>
<td>Agent email</td>
<td><a href="mailto:edina@ed.ac.uk">edina@ed.ac.uk</a></td>
</tr>
<tr>
<td>Agent URL:</td>
<td><a href="http://edina.ac.uk/">http://edina.ac.uk/</a></td>
</tr>
<tr>
<td>Agent Logo:</td>
<td><a href="http://edina.ac.uk/images/edinaplusminus.gif">http://edina.ac.uk/images/edinaplusminus.gif</a></td>
</tr>
</tbody>
</table>
IESR Administrative Metadata

• Included with every entity
• Data suppliers can include:
  – creator / contributor, creation dates,
  – language, source
• IESR includes:
  – latest modification date
  – rights
IESR Creative Commons Licence

- All IESR records licensed under a Creative Commons licence:
  - Non-commercial (freely available)
  - Share-alike (maintain same licence)
  - Attribution-required (attribute provenance)
- Suppliers agree to this licence
- http://creativecommons.org
Displaying Record 1 of 1.

Service Title: Linking to COPAC
Service Id: http://purl.org/po/esr.ac.uk/1084445356-9939
Service Location: http://copac.ac.uk/copac/ezv2
Service Interface: http://esr.ac.uk/registry/findkeys/1084445356-9939-keys.xml
Access Method: webcgi
Service Output: text/html
Access Control: none
Service Help: http://copac.ac.uk/Help.html
Svc Administrator: http://purl.org/po/esr.ac.uk/1084445246-9103

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MIMAS
<table>
<thead>
<tr>
<th>Service Title:</th>
<th>MIMAS LitLink Service</th>
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<tbody>
<tr>
<td>Service Id:</td>
<td><a href="http://purl.org/eisr.ac.uk/1084445332-9487">http://purl.org/eisr.ac.uk/1084445332-9487</a></td>
</tr>
<tr>
<td>Description:</td>
<td>This LitLink service is provided by MIMAS for use by the UK academic community, and also by users at Inist and Scandinavian institutions that subscribe to the CHEST CrossFire agreement.</td>
</tr>
<tr>
<td>Service:</td>
<td><a href="http://litlink.mimas.ac.uk/litlink/service/LitLink">http://litlink.mimas.ac.uk/litlink/service/LitLink</a>?</td>
</tr>
<tr>
<td>Location:</td>
<td></td>
</tr>
<tr>
<td>Access:</td>
<td>opener ul</td>
</tr>
<tr>
<td>Method:</td>
<td>OpenURL Resolver</td>
</tr>
<tr>
<td>Service Output:</td>
<td>txt/html</td>
</tr>
<tr>
<td>Access Control:</td>
<td>athens, ip</td>
</tr>
<tr>
<td>Service:</td>
<td>opener-ul-01</td>
</tr>
<tr>
<td>Standard:</td>
<td></td>
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<tr>
<td>Service Help:</td>
<td><a href="http://litlink.mimas.ac.uk/">http://litlink.mimas.ac.uk/</a></td>
</tr>
<tr>
<td>Svc:</td>
<td><a href="http://purl.org/eisr.ac.uk/1084445246-9103">http://purl.org/eisr.ac.uk/1084445246-9103</a></td>
</tr>
<tr>
<td>Administrator:</td>
<td></td>
</tr>
</tbody>
</table>

| Agent:         | 1 |
| Agent Name:    | MIMAS |
| Agent Id:      | http://purl.org/eisr.ac.uk/1084445246-9103 |
| Agent:         | Service administrator |
| Description:   | |
| Agent Telephone: | +441642756109 |
| Agent email:   | info@mimas.ac.uk |
| Agent URL:     | http://www.mimas.ac.uk/ |
| Agent Logo:    | http://www.mimas.ac.uk/images/mimas/mimas_d2.gif |
Other Service types

• SOAP:
  – Locator: access URL
  – Interface: WSDL

• OAI-PMH:
  – Locator: BaseURL
  – Interrogate service (Identify) for more details

• Web page: Locator: URL
IESR Interfaces

- Z39.50: Bib-1 Search
  - SUTRS (B & F), GRS1, XML (DC and IESR)
- OAI-PMH (soon):
  - XML (DC and IESR)
- Web Services SOAP (SRW) later
- OpenURL (soon): IESR XML
- Web Search
IESR XML

- Composite Collection record:
  - Collection
  - All services that provide access
  - All agents:
    - Owners of collection
    - Administrators of services

- Composite Transactional Service:
  - Service and all administrator agents
OpenURL - Single Entity

- Standard way of passing description of a resource
- Enables link to appropriate copy of article
- Also for server-to-server communication
- IESR OpenURL: retrieve single entity
- OAI-PMH XML/DC records will include OpenURL: by-reference link to IESR XML
OpenURL Example

http://iesr.ac.uk/ourllinkto?
url_ver=Z39.88-2004
&url_ctx_fmt=info:ofi/fmt:kev:mtx:ctx
&rft_id=http://purl.org/poi/iesr.ac.uk/1084445578-11684
&svc.format=text/xml
&svc.type=Service
IESR Data Supply

• Descriptions provided as single entities
• Currently data provided using templates
  – XML
  – Excel
  – Entities correlated using local identifiers
• Web form data entry interface soon
IESR Implementation

• Cheshire II:
  – Advanced information retrieval system
  – Data held as XML with indexes
  – Customisable Z39.50 interface
  – Rudimentary Web interface
• IESR data: composite collection records
• Database re-indexed overnight after change
IESR Meta-Registry

- Records entities and relationships
- Holds ‘master’ copies of entities
- Controls build of registry
- Provides browse interface
- Provides single entity records
### IESR Statistics: Number of Collections, Services and Agents Registered

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Collections</th>
<th>Services</th>
<th>Agents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHDS</td>
<td>8</td>
<td>12</td>
<td>8</td>
</tr>
<tr>
<td>EDINA</td>
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<tr>
<td>Mimas</td>
<td>28</td>
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<td>5</td>
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<td>Rdn</td>
<td>18</td>
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<td>8</td>
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<tr>
<td>UKDA</td>
<td>19</td>
<td>20</td>
<td>1</td>
</tr>
<tr>
<td>UKMirror</td>
<td>170</td>
<td>173</td>
<td>149</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>252</strong></td>
<td><strong>286</strong></td>
<td><strong>170</strong></td>
</tr>
</tbody>
</table>

Return to ESR Browse   Return to IESR Search
Service Types in IESR

- Approximate figures:
  - oai-pmh: 3
  - openurl: 2
  - rss: 3
  - soap: 1
  - webcgi: 5
  - z3950: 19
  - webpage: 285
M2M Interfaces

- IESR aims to provide middleware service in m2m world
- Few collections in JISC IE have m2m interfaces
- Institutional repositories of learning materials and e-prints under development
- Portals can link to resource websites.
IESR Users and Stakeholders

- IESR has consulted with stakeholders
  - Detailed questionnaire
  - Stakeholder workshop
- Majority of requests included in design
- IESR needs Users:
  - Portals, Aggregators, Brokers
IESR Future

• In second 14 month phase of project (until Feb 2005)
• Hope for further funding from JISC - eventually a service
• More content and beyond JISC IE
• Further interfaces
• Will enhance information landscape
IESR Details

Web site: http://www.iesr.ac.uk
Search IESR: http://iesr.ac.uk/registry/
Helpline: iesr@mimas.ac.uk

Ann Apps: ann.apps@man.ac.uk