Open Access Statistics: How to Generate Interoperable Usage Information from Distributed Open Access Services

PIRUS2 – End of Project Seminar

Counting Individual Article Usage

London, 23.02.2011
Open Access Statistics (OAS)

Initiated by:

Funded by:
OAS – Fact Sheet

- First term 2008 - 2010

- Project partners:
  - Göttingen State- and University Library
  - Computer and Media Service, Humboldt-Universität zu Berlin
  - Saarland University and State Library
  - University Library of Stuttgart

- [http://www.dini.de/projekte/oa-statistik/english/](http://www.dini.de/projekte/oa-statistik/english/)
Challenges

- Log files as a result of the usage of repositories
- Gathering and aggregation of usage events through a central service provider
- Value-added services provided by the central service provider
- Usage data then to be retransferred to the repositories
Aims

- A common standard to enable the exchange of usage data between different services (e.g. repositories)

- An infrastructure to collect, process and exchange this usage data

- Usage data has to be provided by the repositories according to standards (COUNTER, LogEc and IFABC)

- Value-added services for repositories

- Implementation guidelines
Technical Infrastructure
Data provider

Collect
- Hits
- Log File

Prepare
- Link with Local Identifiers
- Transform into OpenURL ContextObjects

Provide
- OAI-PMH Data-Provider for Usage Data
Service provider

Collect
- OAI-PMH Service-Provider for Usage Data

Prepare
- Deduplicate (Users and Documents)
- Filter Robots
- Aggregate

Provide
- Repositories
- Value-Added Services (e.g. OAN)
Results and Outlook
Lessons Learned I

- Need for a central clearing house
- An amount of unnecessary data (OpenURL CO) → increase of the data size by factor ~10
- Different situation with Linkresolvers
Lessons Learned II

- Not every standard (COUNTER, LogEc and IFABC) fulfils the requirements → focus on COUNTER and IFABC

- Potential legal problems with German laws on privacy issues
Results

- Infrastructure for exchange of usage statistics

- Modules for OPUS- and DSpace-based repositories, other products can be configured easily, [http://www.dini.de/projekte/oa-statistik/english/software/](http://www.dini.de/projekte/oa-statistik/english/software/)


- Online demo [http://oa-statistik.sub.uni-goettingen.de/statsdemo](http://oa-statistik.sub.uni-goettingen.de/statsdemo)

- Website with further information [http://www.dini.de/projekte/oa-statistik/english/](http://www.dini.de/projekte/oa-statistik/english/)
Repository integration
Open Access Statistics 2 (OAS 2)

Initiated by: GBV | VZG

Funded by: DFG
OAS 2 – Aims

Start in April 2011 – for 2 years:

- Clarification of legal questions (laws on privacy protection)
- Opening the OAS infrastructure to offer standardised usage statistics
- Evaluation of metrics
  a) based on the pure frequency of usage
  b) more sophisticated approaches
- Cooperation to facilitate international comparable usage statistics
- Offer a functional service infrastructure
  - Sustainability report after the first year
International cooperation

- PIRUS Publisher and Institutional Repository Statistics, UK
- SURFSure Statistics on Usage of Repositories, NL
- Knowledge Exchange Usage Statistics Group
  - Denmark’s Electronic Research Library (DEFF)
  - German Research Foundation (DFG)
  - Joint Information Systems Committee (JISC)
  - SURFfoundation, Netherlands

- Common sense
  - Exchange format: OpenUrl ContextObjects
  - Transfer via OAI-PMH
  - Infrastructure based on a data provider – service provider system
  - Normalisation: Robots-Detection

- COUNTER, NEEO, PEER, OAPEN ...
Thanks for your attention!

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Initiated by:

Daniel Beucke
Goettingen State and University Library, Germany
beucke@sub.uni-goettingen.de

Funded by: