

## Progress Report

### Author's Information

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## Report

### 1. Mission statement

To develop and make available cost-effective information services and information databases to the BIBSYS partners. To acquire, develop and maintain shared computer systems supporting tasks related to registration, retrieval, circulation and interlibrary lending in the partners libraries.

### 2. Computer Networks and Internet connectivity

*Please tell your colleagues about your network type, protocols used, services provider, telecommunication equipment used, etc. below*

#### a. In general HW, SW:

All BIBSYS services are available on some TCP/IP protocol. All BIBSYS members are connected through the Norwegian academic network UNINETT. We are shifting from Telnet to HTTP based services. Entire Web Viewer from Software AG is increasingly used instead of Telnet for character based user interfaces. The BIBSYS staff uses a Citrix terminal server, which support both development environments as well as office applications.

#### b. New HW, SW; connectivity upgrades:

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### 3. Library automation

*Please tell your colleagues below what library automated system you use, what hardware you use to run it and which unusual modules do you use or develop*

#### a. In general HW, SW:

The main BIBSYS applications are homegrown, using the ADABAS dbms and NATURAL programming language. The BIBSYS systems run on a HW setup consisting of IBM RS computers, Linux and Sun Solaris. A 3-tier architecture is used for new services. Java is used as programming language for the user-applications and XML is used for exchange of messages between the different system components.

#### b. New HW, SW, other:

A framework for generating the HTML-part of the user interface has been developed. The National Library of Norway is building a new automated storage for rinted matter material at the Rana branch. BIBSYS has developed a communication protocol between the library system and the storage system.

### 4. Union catalogue

*If you run a Union Catalogue, please specify which software you use and which interesting features are linked to your UC*

#### a. Software used:

The BIBSYS union catalogue is built on a NATURAL / ADABAS database backend, and HTTP as well as Z39.50 application frontends. The ONE-2 toolkit for Z39.50 is among the software component. The web user interface includes enhanced services, among others: Integrated access to electronic journal titles, access to supplemental descriptions (abstracts and TOCs for monographs), enhanced linking between records. The Z39.50 service implements advanced functionality like XML holdings records, Dublin Core / RDF formatted bibliographic records and the "Explain lite" services developed within the ONE-2 project. The full Lappish character set is supported in a UNICODE based search interface.

#### b. New features:

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### 5. Digital library

*If you run a Digital Library, please tell us more in following list items*

#### **a. Based on your own production of digital documents:**

The BIBSYS partners have different projects for publishing digital collections. BIBSYS services are involved on different levels, like metadata production and database managing.

#### **b. If so, what is new in your digitalization programmes:**

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#### **c. Based on external sources:**

Electronic journals are catalogued into the BIBSYS union catalogue. The majority of these are licensed by one or several BIBSYS libraries. The main part of the bibliographic descriptions are imported directly from the suppliers, based on subscription lists. The journal locators (URL) are as a rule not stored in the records, but are synthesized on the fly from supplier-specific syntax rules. The printed and electronic versions are kept as two distinct records, linked together. The ISSN database is increasingly used for verification purposes.

#### **d. Important commercial web services accessible to your users:**

BIBSYS hosts the SilverPlatter databases for 20 Norwegian users, and offers a search gateway for access to 47 different bibliographic databases. These include appr 10 of the FirstSearch databases from OCLC. Use of the BIBSYS document ordering service is integrated into both these services. The number of searches in these databases had an 18% increase in 2002.

### 6. New in-house database

*Any interesting databases?*

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### **7. Special web services**

*Something nobody else has? Or much better than any other place?*

The BIBSYS image db contains 27.000 images from the University of Trondheim library. This service is now available to all BIBSYS libraries. The db includes XML-encoded MARC metadata records with embedded image files. The software is built on the XML dbms Tamino from Software AG.

The BIBSYS Subject portal presently contains appr 3000 records from all topic areas. A private subject hierarchy is used, with a mapping to DDC for retrieval purposes. The record structure is non-MARC, with a DC-based metadata schema. In cooperation with the National Library, the new abridged Norwegian version (DDK5) of Dewey is now integrated as one of the search possibilities in the Subject portal. The portal already is much used (30.000 searches per month).

BIBSYS has launched a new service, BIBSYS X, based on the OpenURL standard. BIBSYS X will replace the BIBSYS LINK. BIBSYS X is now implemented in PubMed.

### **8. Electronic document delivery**

*Do you have or plan EDD? How do you fight EU Copyright Directive?*

A new service for registered users, "My BIBSYS", was launched in 2002. The users can track their loans, reservations and requests and have access to a SDI-service.

When a library wishes to send a message to a user that a book is now ready to be fetched at the library, they may now do it by sending a text message to the user's mobile phone. This is BIBSYS first SMS-based service.

### **9. Research and technology development projects**

*Any other interesting R&D projects?*

A project to design a new search gateway was continued in 2002, with the aim to access different information sources, and with added (extended) services like personalization, resource database and shared access management with the HE institutions and UNINETT.

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### **10. Other important projects**

*Anything else you wish others to know about your library?*

BIBSYS moved to a new office building in 2002 and also the computers had to be moved. This great task was done without any problems for the users, as the services continued uninterrupted during the process.