

**MINISIS USERS' GROUP
MEETING 1991**

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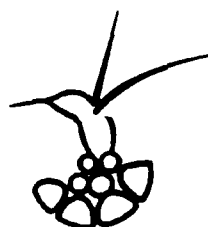
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Esta serie incluye ponencias de reuniones, informes internos y documentos técnicos que pueden posteriormente conformar la base de una publicación formal. El informe recibe distribución limitada entre una audiencia altamente especializada.

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MINISIS Users' Group Meeting

Compte rendu
de la 12^e Réunion annuelle
du Groupe des Utilisateurs de MINISIS



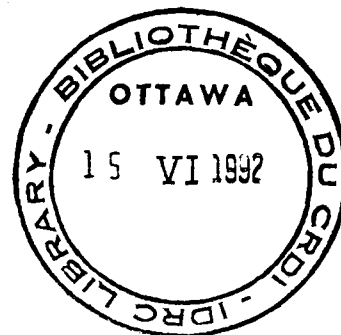
MUG '91

United Nations Economic Council for Latin America and the Caribbean (UN-ECLAC)
and the University of the West Indies (UWI)

le Conseil économique des Nations Unies pour l'Amérique latine et les Caraïbes
(UN-CEPALC)
et la University of the West Indies (UWI)

Port of Spain, Trinidad and Tobago
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Port of Spain, Trinité et Tobago
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Authors

On-line Document Delivery using MINISIS

Marcia Y. Barretto and Abel L. Packer

1. Introduction

BIREME coordinates a decentralized network called Brazilian Health Sciences Information Network with about 250 libraries that transact approximated 100000 (one hundred thousand) photocopies of documents per year.

The Interlibrary Loan has worked, since 1968, as a manual system in which the request of a photocopy is made by filling in a paper form (1).

In order to speed up this system, we designed an automated system to store and help the request of photocopy process. The system is based on MINISIS (2)

A pilot project was implemented in 1988 and nowadays it is in full operation integrating a total of 28 libraries, that corresponds to about 30000 (thirty thousand) photocopies annually.

2. System Overview

Photocopy request can be seen as an electronic mail message that is stored in a MINISIS data base record. They are identified by the automatically generated MINISIS ISN. The record format was developed in a joint project with IBICT to create the common photocopy request format record for Brazil. The record format is depicted in the Data Definition Table shown in Fig.1.

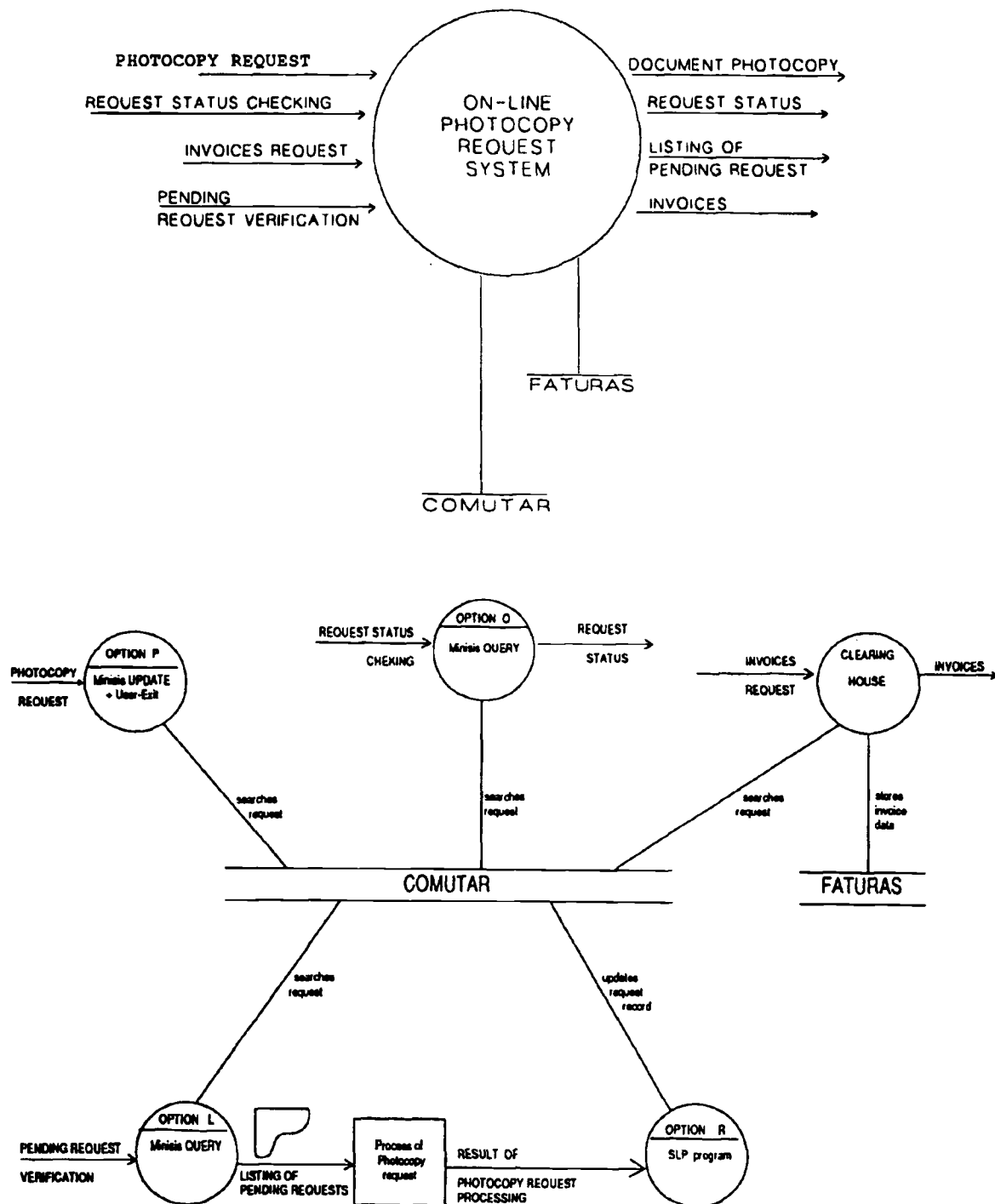
The system is operated from local or remote terminals. All the requests are stored in an unique data base, but user access is restricted to the records with their photocopy requests or with photocopies requested of them. When user logs in the system, a projected subset data base, restricted to these records, is opened. The data base name of this projection corresponds to the user login code. This brings simplicity to the operation and assures data privacy.

Record input and update is done, via MINISIS UPDATE processor and a special System Programming Language (SPL) program, with the following restrictions:

Figure 1

MON, APR 15, 1991		LISDOT DATA DEFINITION																		PAGE 1										
		O	L	N	D	R	S	P	M	D	B	V	P	I	I	I	I	N	T	L	S	S	A	I	L	V	A	E		
		F	E	U	E	R	A	U	I	A	R	N	N	N	N	N	N	N	U	Y	E	Y	Y	M	O	A	R	X		
		F	N	M	C	P	B	O	N	P	B	L	I	V	V	V	V	V	M	P	N	R	P	Y	V	G	L	G	I	
		S	G	E	E	F	M	D	I	M	.											I						T		
		E	Y	R	P	A	L	P	Y	C	L	D	O	R	O	Y	Y	E	E	E	E	E	E	E	E	E	E	E	E	
FIELD NAME	MEMORIC	Y	A	G	Y	S	I	L	Y	D	Y	O	H	V	A	K	N	E	F	Y	R	X	X	X	I	I	I	H	I	A
		C	E	R	C	L	T	E	L	F	P	E	Y	Y	O	L	L	L	L	L	L	L	L	L	L	L	L	L	M	
		D	Y	K	E	Y	E	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	E	
*** Database : COMUTAR																														
Data de solicitacao:	DAYASO	A010	-1	10																										
Yipo e numero do pedido	YIPOMO	A020	-1	10																										
Codigo do solicitante:	CODSOL	A030	-1	10																										
	YITTP	A050	-1	1050																										
Titulo do documento	YTITULO	A051	-1	1000																										
Yipo de documento	TPDOC	A052	-1	10																										
Ano de publicacao	DAYAP	A060	-1	10																										
Volume	VOL	A070	-1	10																										
Numero ou mes do fasciculo	FAS	A080	-1	10																										
Pagina inicial do artigo, capitulo	PAGI	A090	-1	5																										
Pagina final do artigo, capitulo	PAGF	A100	-1	5																										
ISSN ou ISBN	ISSNEN	A110	-1	20																										
Autor do artigo, capitulo, etc.	AUTOR	A120	-1	30																										
Titulo do artigo, capitulo, etc.	YII	A130	-1	70																										
Autorizacao para envio ao exterior	AUTORI	A140	-1	1																										
Fonte de referencia	FONTE	A150	-1	200																										
Yombo	YOMBO	A160	-1	10																										
Estado atual do processamento	EVENTO	A900	-1	50																										
Data do evento atual	DATE	A901	-1	10																										
Local do evento atual	ONDE	A902	-1	10																										
Código do evento atual	STATUS	A903	-1	1																										
Numero do formulário	NFORM	A904	-1	10																										
b010 - para onda(opção 1)	ONDE1	B010	-1	10																										
b020 - para onda(opção 2)	ONDE2	B020	-1	10																										
b030 - para onda(opção 3)	ONDE3	B030	-1	10																										
b040 - que opção ?	OPCAO	B040	-1	1																										
B090 - número de páginas	NPAGS	B090	-1	100																										
Numero de cupons	NCUPON	C010	-1	10																										
digitador	DIG	D010	-1	20																										
Data de entrada do pedido	DAYAE	E900	-1	10																										
Histórico	HISTY	E900	-1	500																										
Data	DATA	E901	-1	10																										
Local	LOCAL	E902	-1	10																										
Estado	ESTADO	E903	-1	1																										
Numero do formulário	NFE	E904	-1	10																										
Data do resultado	DAYAR	E905	-1	10																										
Resultado	RESULY	E906	-1	10																										
Observações relativas ao resultado	OBS	E907	-1	300																										
Data de modificação	DAYAM	M900	-1	10																										
N900 - MLM	N900	N900	-1	100																										
n901 - Data	N901	N901	-1	10																										
N904 - Numero do formulario	N904	N904	-1	20																										
Numero de série - S900	S900	S900	-1	100																										
S910 - Usuário EPM/EXT	EPMEXT	S910	-1	10																										
S920 - Número de cópias	COPIAS	E920	-1	10																										
nome do usuário	NOME	U100	-1	100																										

Figure 2



- any user can input requests;
- requestors can only cancel their own pending requests;
- a requested library can only update the status of the request, i.e., enter the result of the request processing.

All users can retrieve requests related to them at any time. Nobody is authorized to delete records.

BIREME, as the system coordinator, has access to the entire data base in order to monitor the system operation, to maintain the data base, to produce statistics, to make end of month clearing-house and to produce invoices. Payments are restricted between BIREME and each user. Documents are delivered by mail or facsimile.

3. System Operation

The operation of this system is very simple: it is driven by menus, uses MINISIS processors and one special program. When users subscribe to the on-line service, they get the Operation Manual with record fields definition and the procedures to input a photocopy request (3,4).

When the library connects to BIREME computer, receives the first menu (fig. 3), in which can be

Figure 3

Select an option:

- Q - Information Retrieval
- P - Photocopy Request - Data Entry
- R - Photocopy Request Updating
- L - Photocopy Request Listing
- X - Exit

?

chosen the action to be performed.

3.1. Option Q - Information Retrieval

Using the option Q, users can search its projection data base using Minisis QUERY processor as well as search any bibliographic data base that is available on-line at BIREME's installation.

Typical searches involve the field status and dates. For example:

a. Which is the status of the request identified by ISN 296804:

b. which requests are positive, i.e., the

```
>=sn 296804
P=
T=
Q> B
-----
In process.      Date: 1991-04-22      Local: UNBIO      Isn: 296804
To: BR1.1      Request Date: 1991-04-22      Pedido: NC296804
USER: ALMEIDA, JOAO ANTONIO
JOURNAL PEDIATRIC 115(1991) 1989 / CLAPD, BRUNO...
Subject: CURRENT CONTENTS 1991-04-22, 1990-10-
```

corresponding photocopies were delivered:

```
>=status POS
P=
T=
```

where POS means "document photocopied"

c. which requests are pending since April 15, 1991:

```
>=status PRO and date > '1991-04-15'
P=
T=
```

where PRO means "request in process".

3.2. Option P - Photocopy Request - Data Entry

The option P is used to input a request for a photocopy. Minisis UPDATE processor, with a user-exit to control the filling of some default fields,

Figure 4

```

:hello marcia,bripl.biremebr
ENTER USER PASSWORD:

HP3000 RELEASE: A.30.00 USER VERSION: A.30.00 MON, APR 22, 1991. 1:21 PM
MPE XL HP31900 A.23.18 Copyright Hewlett-Packard 1987. All Rights Reserved.

Select an option:

Q - Information Retrieval
P - Photocopy Request - Data Entry
R - Photocopy Request Processing
L - Photocopy Request Listing
X - Exit

? p

P - Photocopy Request - Data Entry

UPDATE VERSION G.01.00 MON, APR 22, 1991. 1:21 PM

* SELECT DATA BASE OR EXIT - bripl
TYPE 'HELP' FOR VALID COMMANDS

PLEASE ENTER FUNCTION TO SELECT RECORD
?new
15N=296804
To where (option 1):
(b010)
?BR66.1
b020 - to where (option 2)
?BR25.1
b030 - to where (option 3)
?
Document Title:
?JOURNAL PEDIATRIC
Year of publication:
?1989
Volume
?115
Issue number or month:
?6
Initial page of article, chapter:
?973
Final page of article, chapter:
?
ISSN or ISBN
?
Author of the article, chapter, etc.
?CLAPP, D.W.
Title of the article, chapter, etc.
?
Authorization to sent the request to exterior:
?S
Reference source:
?CURRENT CONTENTS 33(2):236, 1990
User name:
?ALMEIDA, JOAO ANTONIO
PLEASE SELECT FUNCTION
?L ALL

-----
Date: Local: BR66.1 Isn: 296804
Id.: Request Date: Request:
USER: ALMEIDA, JOAO ANTONIO

JOURNAL PEDIATRIC 115(6):943 1989 / CLAPP, D.W.
Source: CURRENT CONTENTS 33(2):236, 1990 (S)

-----
PLEASE SELECT FUNCTION
?E
PLEASE ENTER FUNCTION TO SELECT RECORD
?EXIT

Select an option:

Q - Information Retrieval
P - Photocopy Request - Data Entry
R - Photocopy Request Updating
L - Photocopy Request Listing
X - Exit

? X

X - Exit

END OF PROGRAM
CPU-6. CONNECT=2. MON, APR 22, 1991. 1:23 PM.

```

is used. The Fig.4 shows a corresponding dialog.

When user inputs the photocopy request, three possible centers where the document could be photocopied can be choosen. In the option R (Photocopy Request Updating) if the document requested is not found, the request is automatically addressed to the next library.

3.3. Option R - Photocopy Request Updating

The option R is selected to update the status of requests processed by the library. The operation is driven by a program using MINISIS intrinsics(5) . The status field is updated according to the result of the request processing. Before choosing this option, it is recommended that request forms be piled up according the request processing result as shown in the Option R processing menu (Fig.5)

Figure 5

```
Select:
1. positive
2. return, because does not have it
3. return, because not a photocopy
4. cancel
5. end
```

All options follow the same sequence: ask for the request identification, show the corresponding request form, ask for confirmation and then update the status of photocopy request.

Option 1 is used to indicate that the photocopy

Figure 6

```
Input the request identification: 296EC4

In process:      Date: 99-04-22      Local: MR65...      Date: 296EC4
Id.: BR1.1      Request date: 99-04-22      Request: MC796304
USER: ALBERTO, JOAO ANTONIO
JOURNAL: PEDIATRIC 113(6):370-1989 / CLAPP, D.M...
Source: CURRENT CONTENTS 11(2):236, 1990 (SI)

Is it ok (y, n or obs)? y

Input the request identification:
```

requested was delivered. Fig. 6 shows a typical dialog for any of the above options.

The option 2 is used to update the status of requests when the library does not have the corresponding document.

Option 3 is used to update requests which data are not consistent, for example, the document author's name does not correspond to that indicated on the request, or the volume/issue indicated is out of range in a given year of publication, etc.

Option 4 can be used to cancel the pending requests. Cancel means to change the status of the record to "canceled" . The corresponding record is not deleted from the data base.

3.4. Option L - Photocopy Request Listing

The option L uses Minisis QUERY processor to list all the pending requests addressed to the library, in alphabetical order by journal title. The output is usually downloaded to a hard disk and then hard-copied for journal location in shelves and photocopies production. It lists the pending photocopy requests in a standard form so that the library can use them to make all local processing.

BIREME uses the same request form to process the requests. Each request is output twice so that while the photocopy is being produced, a copy of the request marks the journal issue place at the shelves.

4. Data Base Maintenance and Clearing-house

Data base maintenance includes typical MINISIS processing such as data base back-up, garbage collection, inverted files maintenance, etc.

At the end of the month, the system computes, for each library, the difference between number of documents requested and delivered, and issues the compensated invoices. This computation is done using MINISIS INDEX and COMPUTE processor. The resulting data for the invoices are entered in an INVOICE data base, using PRINT and BATCHIN processors. In the reverse of each invoice there is a listing of all related requests.

5. Conclusions

The system is being used intensively by different institutional and individual users: from January, 1990 until January, 1991 the number of libraries that participate in interlibrary loan doubled (from 15 to 28) and the number of photocopy requests increased four times (approximately, from 2000 to 8000, monthly)

The operation of the system has resulted not complex at all if we consider that only 0.50% of the

requests are not correctly entered.

Bibliographic Reference:

- (1) Serviço de comutação Bibliográfica: Manual de Operações. São Paulo, BIREME, Janeiro 1988. 23p.
- (2) MINISIS Terminal operator's Guide. IDRC, 1988.
- (3) Manual de Descrição dos campos da Base de Pedidos de Fotocopias. São Paulo, BIREME, Setembro 1990. 24p.
- (4) Manual de comutacao Bibliografica on-line. São Paulo, BIREME, Setembro 1990. 29p.
- (5) MINISIS Application Programmers' Guide. IDRC, 1988.

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BIBLIOTECA
FACULDADE DE MEDICINA
UNIVERSIDADE FEDERAL DE MINAS GERAIS
AVENIDA ALFREDO BALENA 190
30130 BELO HORIZONTE MG

NÚMERO DA FATURA	BR21.1/199103
DATA DE EMISSÃO	1991-04-09
DATA DE VALIDADE	1991-04-29

ITEM	DESCRIÇÃO	QUANT.	PREÇO UNIT.	PREÇO TOTAL
1	Documentos Fotocopiados - Brasil	464	84.00	38976.00
2	Documentos Fotocopiados - Exterior	2	2640.00	5280.00
	Total			44256.00

Notas:

1. Os preços acima são em Cruzeiros(Cr\$).
2. Para o cálculo de documentos fotocopiados no Brasil, foi considerada a diferença entre o número de pedidos feitos à Rede e o de atendidos pelo Centro.
3. As fotocópias feitas no Exterior tem preço equivalente a Us\$12.00 por documento.
4. A fatura deve ser paga dentro do prazo de validade.

Pedidos Solicitados: 312071 315579 318218 319848 323097 323099 324386 324392 324442 326158 326171 326180 326211 326217 326678 326883 326706
 326707 326718 326299 328300 328316 328325 329210 329284 329288 329362 329366 329368 329388 329405 329406 329434 329436 329439 329441 329454 329459
 330649 330664 330748 330766 3307104 332157 332211 332244 335848 335850 335852 335854 335856 335858 335865 335867 335868 335889 335876 335880 335890
 335905 335909 335911 335915 335917 335919 335921 335924 335927 335928 335929 335932 335934 335936 335937 335940 335941 335945 335947 335949 335952
 335957 335989 335992 335994 335987 336250 336252 336254 336255 336258 336263 336267 336273 336277 336288 336294 336304 336308 336315 336318 336322
 336326 336330 336335 336337 336338 336343 336353 336355 336363 336365 336367 336370 336371 336372 336373 336375 336376 336380 336381 336382 336384
 336385 336389 336390 336391 336407 336409 336413 336415 336421 336436 336438 336439 336440 336444 336447 336448 336450 336453 336458 336464 336480
 336483 336488 336491 336498 336499 336501 336504 336507 336511 336513 336516 336518 336522 336526 336527 336529 336533 336536 336541 336543 336544
 336545 336546 336550 336551 336554 336555 336557 336558 336559 336563 336566 336573 336939 336944 336950 336955 336958 336988 336990 336993 337003
 337006 337008 337014 337016 337022 337023 337026 337028 337030 337032 337034 338363 338386 338387 338390 338391 338394 338395 338397 338401 338407
 338412 338418 338420 338423 338428 338428 338430 338434 338439 338445 338450 338455 338458 338465 338470 338474 338478 338478 338484 338483 338500
 338503 338508 338509 338512 338514 338517 338519 338521 338522 338525 338527 338529 338531 338534 338537 338538 338541 338543 338547 338551 338555
 338557 338559 338562 338565 338568 338568 338568 338569 338573 338577 338579 338584 338590 338591 338593 338594 338597 338599 338600 338603 338607 338608
 338611 338611 338613 338619 338620 338624 338625 338626 338628 338630 338632 338636 338639 338641 338643 338644 338648 338648 338650 338651 338655
 338656 338659 338661 338666 338667 338654 338655 338657 338658 338683 338687 338671 338675 338682 338687 338682 338697 338700 338701 338705 338708
 338710 338713 338716 338719 338723 338732 338736 338740 338744 338748 338752 338754 338757 338758 338759 338762 338764 338766 338768 338771 338774
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