

Migration from CEPAL database to Serials in ABCD



Author: Marcos Mirabal Garcia
Email: marcos@ict.upr.edu.cu

Dirección de Información Científico Técnica
DICT.upr.edu.cu – Universidad de Pinar del Río

INTRODUCTION

ABCD (Automation of Libraries and Documentation Centers) is a multilingual free Web application, Open Source library management system with the main functions of a library: Acquisition, cataloging, loans and administration of databases. It also includes an advanced loans module called EmpWeb. Since 2010 BIREME (Centro Latinoamericano y del Caribe de Información en Ciencias de la Salud) made available to Cuban national institutions this application and we started with a workshop in the CUJAE, Havana, Cuba by the teacher and specialist Egbert de Smet: ABCD management software (software installation, fine-tuning and problem-solving). In this workshop participants learned how to install, configure and customize ABCD for exploitation in any of our institutions working on Windows environment.

Following the general guidelines for the use of free software (SWL) in Cuba about libraries: "Establish the use of SWL in the halls of public access, (email rooms, libraries, Youth Club, etc..) includes operating system and office applications. Each institution should develop a schedule for migrating to SWL other specific applications used in these places," we start thinking to work on ABCD in Linux.

This manual is designed for any type of specialist: computer scientists, librarians, engineers, doctors, tele communicators: for all. It has been prepared in simple language, with well explained and proven procedures, in the style of copy and paste. The commands you will find in italics and underlined. The contents of the files found in the [blue](#).

The purpose of this manual is to help you to migrate your serials from a database (in CEPAL format for example) to ABCD serials module Secs-web.

DEVELOPMENT

Migrate a database format is always a complex process. We advise you to consult formats experts to continue and be sure you don't have any problems before replacing your databases and be sure to make a backup of the databases folder before start.

1-Firts of all we need to make a deep analysis of our database to match our fields with the title and the titlePlus databases. This is the most difficult steep and the most important also. We provide the example of the database of our University.

Match of our Revis database with the title database

Field in CEPAL	Field Name	Field in title
MFN	Identification Number	30 (MFN+20 000*)
30	Title	100
40	Country	310
64	Language	340
29	Editor	360
35	ISSN	400
76	Descriptor	441
72	Notes	900
97	Creation Date	940

Match of our Revis database with the titlePlus database

Field in CEPAL	Field Name	Field in title
MFN	Title ID	30 (MFN+20 000*)
30	Title	100
97	Creation Date	940

2-Once done that we may proceed to create the migration files following the model:
if p(field in CEPAL) then '<field in database',vFIELD IN CEPAL'</field in database >' fi,
Where p(field in CEPAL) checks that the field has value before executing the migration.

*This is a random number that will help you to avoid duplicates in your databases.

We provide the files UPR_title.prc and the UPR_tutlePlus.prc that we used to migrate our database. You must create yours and save it as name.prc.

File UPR_title.prc:

```
'd*',  
  
'<3>LOCAL</3>',  
'<5>S</5>',  
'<6>s</6>',  
'<10>main</10>',  
'<30>',f(mfn+20000,1,0),'</30>',  
'<37>',f(mfn+20000,1,0),'</37>',  
'<40>SECS</40>',  
if p(v30) then '<100>',v30,'</100>' fi,  
if p(v40) then '<310>',v40,'</310>' fi,  
if p(v64) then '<340>',v64,'</340>' fi,  
if p(v29) then '<360>',v29,'</360>' fi,  
if p(v35) then '<400>',v35,'</400>' fi,  
if p(v76) then '<441>',v76,'</441>' fi,  
if p(v77) then '<441>',v77,'</441>' fi,  
if p(v72) then '<900>',v72,'</900>' fi,  
if p(v97) then '<940>',v97,'</940>' fi,
```

File UPR_titlePlus.prc:

```
'd*',  
  
'<901>1</901>',  
'<902>3</902>',  
'<946>3</946>',  
'<950>admsecs</950>',  
'<951>admsecs</951>',  
'<10>Main Library</10>',  
'<30>',f(mfn+20000,1,0),'</30>',  
if p(v30) then '<100>',v30,'</100>' fi,  
if p(v97) then '<940>',v97,'</940>' fi,
```

3-Copy the database (in our case Revis database) to a folder.

4-Copy the mx.exe utility from your ABCD/www/cgi-bin/ folder to your database folder.

5-Copy your proc files to your database folder.

6-Run cmd and navigate to the database folder.

7-The next commands will be executed in the cmd Windows application.

a-Create the database from a ISO file if necessary:

mx iso=Revis.iso create=revis -all now

b- To migrate the records from your database to the title database (Be aware that the records will be appended at the end of the title database):

In Windows:

mx revis -all now proc=@UPR title.prc append=c:/ABCD/www/bases/secs-web/title

In Linux:

/opt/ABCD/www/cgi-bin/mx revis -all now proc=@UPR title.prc append=/var/opt/ABCD/bases/secs-web/title

c- To migrate the records from your database to the titlePlus database (Be aware that the records will be appended at the end of the titlePlus database):

In Windows:

mx revis -all now proc=@UPR titlePlus.prc append=c:/ABCD/www/bases/secs-web/main/titlePlus

In Linux:

/opt/ABCD/www/cgi-bin/mx revis -all now proc=@UPR titlePlus.prc append=/var/opt/ABCD/bases/secs-web/main/titlePlus

d- IN LINUX ONLY. Change the permissions and the ownership in the bases folder:

chmod -R 777 /var/opt/ABCD/bases

chown -R www-data:www-data /var/opt/ABCD/bases

e- Index de databases

In Windows

mx title fst=@tite.fst fullinv=title

mx titlPluse fst=@titePlus.fst fullinv=titlePlus

In Linux:

/opt/ABCD/www/cgi-bin/mx /var/opt/ABCD/bases/secs-web/title fst=@UPR title.fst fullinv=/var/opt/ABCD/bases/secs-web/title

/opt/ABCD/www/cgi-bin/mx /var/opt/ABCD/bases/secs-web/main/titlePlus fst=@UPR titlePlus.fst fullinv=/var/opt/ABCD/bases/secs-web/main/titlePlus

Ready! We have our titles in our serials module of ABCD.