I Can’t buy ARC

Presented by: Augusto Ribeiro “augusto.ribeiro@reit.up.pt”
Tiago Fernandes “tfernandes@reit.up.pt”

Agenda

• Introduction to the University
• Aleph installation.
• Statistics from ALEPH
  – Current situation
  – Motivation to change
  – Developments in Statistics Custom Services
The University of Porto

• University of Porto Campus has 3 distinct areas.
  – 14 Faculties
  – 1 Business School
  – 69 investigation units
  – 30 libraries

ALEPH in University of Porto

• We give support to 27 physical libraries with different geographic locations in Porto or in neighbour cities.

• 124 ALEPH Staff accounts to manage

• Actually, in ALEPH, we have 4 bibliographic libraries and 16 administrative libraries
What we use to do?

- Librarians request statistics by e-mail
- Technical staff write an SQL script
- The results of SQL are sent to the librarian
- The SQL script is stored in a folder to be reused

Motivation to change

- We lost too much time getting statistics
- Sometimes data was out of time
- Difficulties managing the scripts
- Librarians don’t have autonomy
Statistics from ALEPH

- ARC, according to our local distributor, is the only system to get statistics from ALEPH

- Our institution can’t afford it

- Our librarians need statistics to manage libraries

Knowledge to change

- The presentation “How to make a home made custom service” by Yoel Kortick.

- We already have the SQL scripts

- We only need to combine this knowledge
Statistics Custom Services

• Store SQL files in ALEPH server

```
catalog.up.go-alph1:~>cp /home/statistics/services/
catalog.up.go-alph1:~>
catalog.up.go-alph1:~>
```

09-09-2009 9

Statistics Custom Services

• Generate report in HTML

– To generate a report in HTML from SQLPlus use “MARKUP HTML ON”

```
SET MARKUP HTML ON;
```

09-09-2009 10
Statistics Custom Services

- Generate report in HTML
  - The number and name of columns must be the same of the SQL query

```
Titulo
```

```
Ocorrencias
```

09-09-2009

Statistics Custom Services

- The variables used in SQL will be replaced with the values sent by the service, with the same name.

```
Parameters
```

09-09-2009
Now, we need to create the aleph script, which will be run by the service.

Those scripts must be stored under $aleph_proc directory

• The ALEPH script

```
source $aleph_proc/def_local.env
set SUBLIB = "sp1"
set SUBDEF = "$sp1"
```

Mandatory lines

Parameters from service

Parameters for script
Statistics Custom Services

• The ALEPH script

Parameters for LOG service

cpio "#" echo "#Variáveis usadas para executar a rotina:"
cpio "#Bibliográfico:" ABILEIS
cpio "#Sub Biblioteca Administrativa:" SSUBLIB
ncpio "#Sinais de fluxo:" SINGEN
ncpio "#Var de fluxo:" SINAL
ncpio "#Limite de Expressões:" SINLINE
ncpio "#Active library: " RC_active_library
ncpio "#The low-case active library is: " lower_lib

09-09-2009

Verify if e-mail was entered

if (Email_exist == 1) then
    echo "Email address: " EMAIL
    echo "Email address: não foi inserido endereço de e-mail"
else
    echo "Email address:"
endif

09-09-2009
Statistics Custom Services

• The ALEPH script

Retreive library-relation parameters

```bash
set DLIB = echo | preg "&DBC.*.library" $aleph_var/library_relation | exe "\"\"print amnesty(\$2,\$3)\"\";
set RELLIB = echo | preg "&DBC.*.library" $aleph_var/library_relation | exe "\"\"print amnesty(\$2,\$3)\"\";
```

Statistics Custom Services

• The ALEPH script

```bash
### Insert para executar o script para todas as sub-bibliotecas
if ($PUBLIB == '') then
  echo "***** no in beginning of section if PUBLIB == ALL"
  cat $script_directory/\$PUBLIB/tmp_circl_equip.sql | \
    sed -e '/^\$PUBLIB|^/!d' | \
    sed -e '/^\$PUBLIB|/!d' |
  echo -e "$PUBLIB/$script_dir|library.sql" |
  echo -e "$PUBLIB/$script_dir|library.sql" |
else
  echo "***** no in end of section if PUBLIB == ALL"
endif
```
Statistics Custom Services

- The ALEPH script

```bash
### Script para executar o script para uma sub-biblioteca
if [ $JUBLIB == "" ]; then
  echo "**** no in beginning of section if JUBLIB == ALL"
  cat $script_directory/estat_estoc_dou_plus_loan.sql | \
  sed "s/ALEPH\$/JUBLIB\$/g" | \
  sed "s/\$\$/JUBLIB\$/g" | 
  sed "s/ALEPH\$/JUBLIB\$/g" | 
  sed "s/\$\$/JUBLIB\$/g"
else
  echo "**** no in end of section if JUBLIB == $JUBLIB"
  exit
fi
```

Statistics Custom Services

- The ALEPH script

```bash
# Script para executar o script para uma sub-biblioteca
if [ $JUBLIB == "" ]; then
  echo "**** no in beginning of section if JUBLIB == ALL"
  cat $script_directory/estat_estoc_dou_plus_loan.sql | \
  sed "s/ALEPH\$/JUBLIB\$/g" | \
  sed "s/\$\$/JUBLIB\$/g" | 
  sed "s/ALEPH\$/JUBLIB\$/g" | 
  sed "s/\$\$/JUBLIB\$/g"
else
  echo "**** no in end of section if JUBLIB == $JUBLIB"
  exit
fi
```
Statistics Custom Services

• The ALEPH script

```plaintext
#!/usr/local/bin/perl

use strict;
use warnings;

# Start of script

# Define variables

$database = "example_database";
$user = "example_user";
$password = "example_password";
$server = "example_server";

# Connect to database

connect($database, $user, $password, $server);

# Query the database

$sth = $self->prepare("SELECT * FROM example_table;");
$sth->execute();

# Process the query results

while (my $row = $sth->fetchrow_hashref()) {
    # Do something with each row
}

# Close the database connection

disconnect();

# End of script
```

Mandatory lines
Statistics Custom Services

• Test the script

  csh –f $aleph_proc <procedure> <parameters>

• Example

  csh –f $aleph_proc p_rec_log orb plug load $aleph_root.,20090901,20090902,2,noteslog@mail.com.Lista'dex'Comments'Liste'Registr

Statistics Custom Services

• Add the service to circulation services menu

• Change to directory where the services menus are stored

• The services menus are stored in $aleph_root/pc_b_eng but you can use the alias pcb.
Statistics Custom Services

• Backup file menu-circ.xml
  cp menu-circ.xml menu-circ.xml.backup

• Open the file menu-circ.xml and include the lines to create the services menu.

Statistics Custom Services

• Changes in ALEPH GUI
Statistics Custom Services

• Create the file to run the service

Name of ALEPH script file in $aleph_proc directory (see slide 13)
Statistics Custom Services

• Create the file to run the service

```bash
# Example of a script to run the service

# Import necessary libraries
import necessary_functions

# Define service parameters
service_param1 = value1
service_param2 = value2

# Execute service
execute_service(service_param1, service_param2)
```

Statistics Custom Services

• Changes in ALEPH GUI

![Changes in ALEPH GUI](image_url)
Statistics Custom Services

• Results of the service in gmail

Hands on!
Statistics Custom Services

Questions!

Augusto Ribeiro augusto.ribeiro@reit.up.pt
Tiago Fernandes tfernandes@reit.up.pt

http://biblioteca.up.pt

Thank you