Virtual AskQC Office Hours

Connexion Macros
OCLC Metadata Quality
September 2020
Housekeeping

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• All session recordings, slides, and notes are available at oc.lc/askqc
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- After the session, you will be directed to a brief, optional survey
On the call today

Shanna Griffith
Database Specialist II

Robin Six
Database Specialist II

Robert Bremer
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Bryan Baldus
Consulting Database Specialist

Nathan Putnam
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Virtual AskQC Office Hours: Connexion Macros
Connexion Macros

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Connexion Macros

• Connexion client includes a macro language—OCLC Macro Language (OML)

• OML is not available in the Connexion browser or WorldShare Record Manager

• OML is based on an older version of Visual Basic

• OML uses many Basic commands supplemented by OCLC-specific commands designed to work with OCLC data, displays, etc.
Connexion Macros

• More than just scripting to replay keystrokes, OML can:
  • Navigate Connexion search results
  • Receive input from the user via dialog boxes
  • Read data from a displayed record
  • Write data to a displayed record
  • Write data to another file
Connexion Macros

• Includes ability to use conditional statements:
  If <some condition is true> Then
      <some statements>
  Else
      <some other statements>
  End If

• Includes ability to use loops when repetition is needed:
  Do While <some condition is true>
      <some statements>
  Loop
Simple Macro to Save Keystrokes—Replace-Forward to Next Record

' MacroName: RepFor
' MacroDescription: Replaces a record and moves forward to the next record in a list when applicable
' Version: July 28, 2005

Sub Main
  Dim CS As Object
  Dim bool As Integer
  Set CS = CreateObject("Connex.Client")
  bool = CS.ReplaceRecord
  If bool = TRUE Then
    bool = CS.GetNextItem
  End If
End Sub
OCLC Macrobook

• Automatically supplied in the Connexion client
• Contains macros that may be useful in cataloging
• Adapt and modify as needed, but copy changed macros to another macro book to avoid overwriting them when downloading the client again
• Functionality of some of these macros is built into WorldShare Record Manager
OCLC Macrobook

• Most current version is newer than what is included in the download of the Connexion client

• To download the newer version of OCLC macrobook, go to: oc.lc/cat-downloads

• Following slides include some examples of macros from the OCLC Macrobook
OCLC Macrobook—Add & Edit 007

- If not using Constant Data, this macro may be useful to add 007
- Can be useful to edit any existing 007
- Dialog box displays:
  - Names of the subfields used in Connexion displays
  - Names of the codes for each subfield
  - Drop-down menus for each subfield
- Click OK to add or change the field
OCLC Macrobook—Add 33x

• Similar to Add & Edit 007, but supplies defaults based on coding already in the record
• If Type = i, Form = blank, and 300 ᵇa = 1 audiocassette, the dialog box would display as on the left, click OK and macro adds:
  • 336  spoken word ᵇb spw ᵇ2 rdaccontent
  • 337  audio ᵇb s ᵇ2 rdamedia
  • 338  audiocassette ᵇb ss ᵇ2 rdacarrier
OCLC Macrobook—Generate 043

• Generates geographic area codes in field 043 based on geographic names in subject headings
• If the record has:
  • 651 0 Argentina ‡x Foreign relations ‡z China
  • 651 0 China ‡x Foreign relations ‡z Argentina

• Macro then adds:
  • 043 s-ag--- ‡a a-cc---
OCLC Macrobook

- Add&Edit007
- Add33x
- AddAuthority6xx
- AddSerialNotes
- BrowseAuthorityIndex
- BrowseBibliographicIndex
- ClearELvl3Workform
- Generate034

- Generate043
- Generate891
- GenerateAuthorityRecord
- GenerateERecord
- InsertHeading
- PunctuationAdd
- PunctuationRemove
Custom Connexion macro example
What do you want the macro to do?

• Define exactly what the macro is to do:
  • Delete fields not used locally
  • Add a common field to multiple records
  • Write a string of text from records to a file

• How is the macro to work:
  • Individual records
  • Run against a list of records
Getting to the macro editor
New blank macro

```
Macroname: demoMacro
MacroDescription: macro for VAOH demo; delete fields, add a field, write text

Sub Main
    Dim CS As Object
    Set CS = CreateObject("Connex.Client")
End Sub
```
Fill out the macro header information

• Author information
• Created or revision date
• Anything else one might need to know to use the macro
Populate the declarations section

```vba
Sub Main
    Dim CS As Object
    Dim s001 as String
    Dim s020 as String
    Dim sField as String
    Set CS = CreateObject("Connex.Client")
End Sub
```

- OCLC record number - `s001`
- ISBN - `s020`
- Variable data - `sField`
Write the OCLC record number to a text file

```
'define/open the text file to record the OCLC record numbers
  Open "C:\Data\OCNs.txt" For Append Access Write As #1
'get the OCLC record number and trim off the field tag
  CS.GetField "001", 1, s001
    If InStr(s001, "001") <> 0 Then
      s001 = Trim$(Mid$(s001, InStr(s001, "001") + 4))
    End If
'write the OCLC record number and close the text file
  Print #1, s001
  Close #1
```
Delete all instances of specific fields

'remove all instances of each field listed

Do While CS.GetField("029", 1, sField) <> 0
  CS.DeleteField "029", 1
Loop

Do While CS.GetField("938", 1, sField) <> 0
  CS.DeleteField "938", 1
Loop
Go back to the beginning of the record

'back to line 1 in the bib record

CS.CursorRow = 1
CS.CursorColumn = 1

n = 1

and set the counter to 1
Cycle through the 020 fields

Delete the field if it contains a subfield ≠z
'Add a local collection note in field 590

    CS.SetFieldLine 998, "590 Young adult action/adventure collection."

End Sub
Summary of macro

- Writes OCLC record number to a text file
- Deletes all 029 fields
- Deletes all 938 fields
- Deletes only the 020 fields where the ISBN is in a subfield ≠z
- Adds a local note
Resources

oc.lc/macros
OCLC Resources

- OCLC Connexion Client Guides, Basics: Use Macros
  - Downloadable PDF file
  - Accessible in the client Help under the section titled Use Macros

- OCLC-CAT
Non-OCLC Resources

• Joel Hahn’s macros [http://www.hahnlibrary.net/libraries/oml/index.html](http://www.hahnlibrary.net/libraries/oml/index.html)
• Walt Nickeson's macros [https://github.com/wnickeson/WaltsMacros](https://github.com/wnickeson/WaltsMacros)
• OCLC Macro Language for the Complete Beginner, written and provided by Joel Hahn, Niles Public Library District, Niles, Illinois [http://www.hahnlibrary.net/libraries/oml/index.html](http://www.hahnlibrary.net/libraries/oml/index.html)
• Writing OCLC Connexion Client Macros the Simple Way, designed and created by Merry Morris, Free Library of Philadelphia [http://computerwhizzard.50megs.com/](http://computerwhizzard.50megs.com/)
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Thank you!

October Virtual AskQC Office Hours
Linked data, and the road to learning it

Tuesday, 6 Oct. at 9:00 AM Eastern
Thursday, 15 Oct. at 4:00 PM Eastern

Registration and session links available at oc.lc/askqc

Send cataloging policy questions at any time to askqc@oclc.org

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