

Virtual AskQC Office Hours

Connexion Macros
OCLC Metadata Quality
September 2020

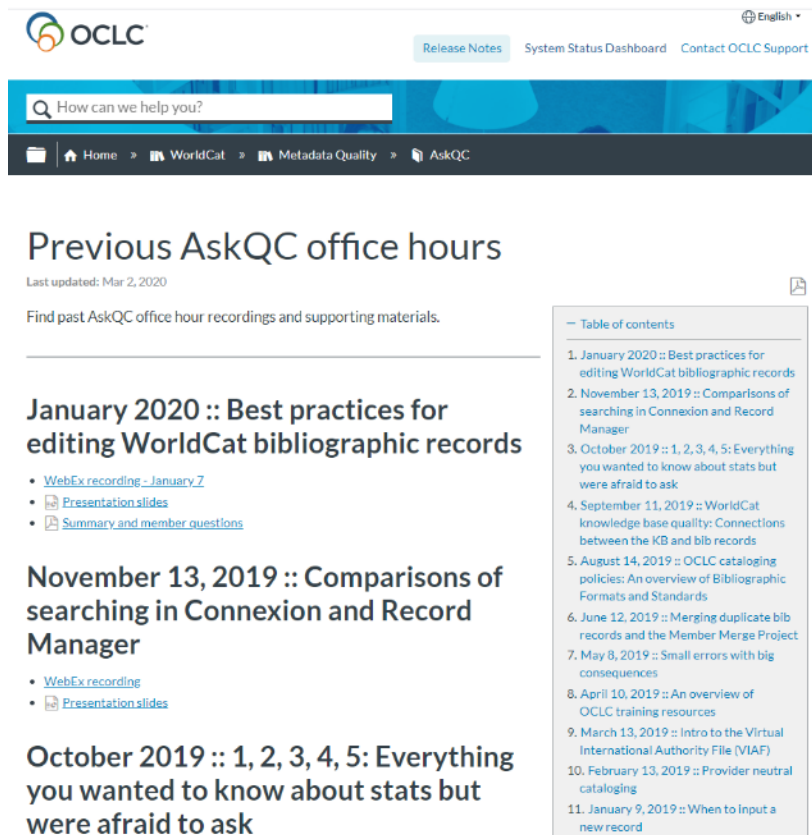
Housekeeping

- This session is being recorded



Housekeeping

- This session is being recorded
- All session recordings, slides, and notes are available at oc.lc/askqc



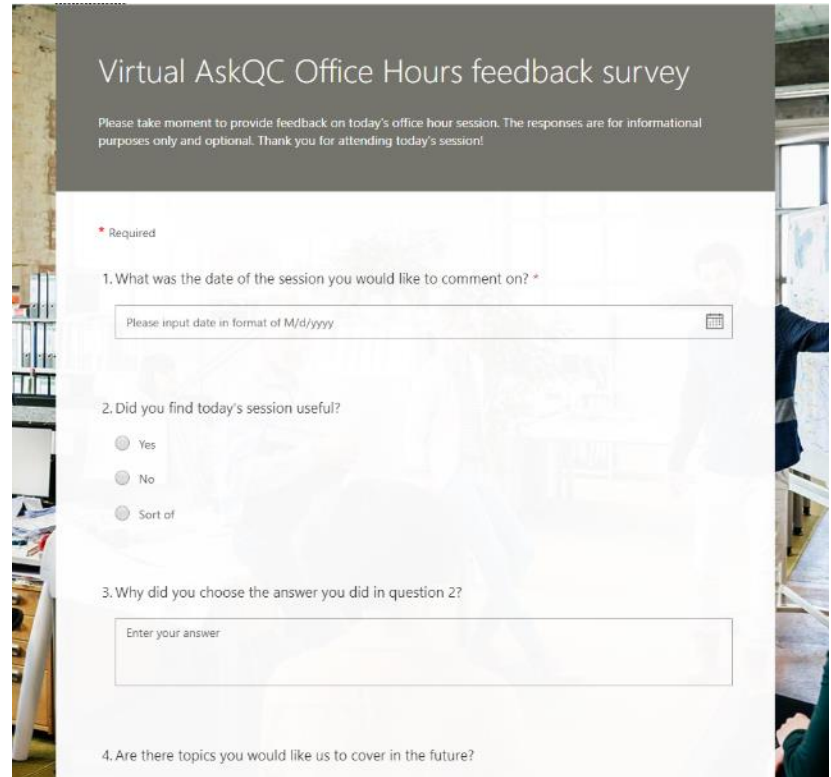
The screenshot shows the OCLC AskQC website. At the top, there is the OCLC logo, a language selector set to English, and navigation links for Release Notes, System Status Dashboard, and Contact OCLC Support. Below the header is a search bar with the text "How can we help you?". A breadcrumb trail indicates the current page: Home > WorldCat > Metadata Quality > AskQC. The main content area features the heading "Previous AskQC office hours" with a sub-heading "Last updated: Mar 2, 2020". Below this is a link to "Find past AskQC office hour recordings and supporting materials." The main list of recordings includes:

- January 2020 :: Best practices for editing WorldCat bibliographic records**
 - [WebEx recording - January 7](#)
 - [Presentation slides](#)
 - [Summary and member questions](#)
- November 13, 2019 :: Comparisons of searching in Connexion and Record Manager**
 - [WebEx recording](#)
 - [Presentation slides](#)
- October 2019 :: 1, 2, 3, 4, 5: Everything you wanted to know about stats but were afraid to ask**

On the right side of the page, there is a "Table of contents" sidebar listing all 11 recordings in chronological order from 2019 to 2020.

Housekeeping

- This session is being recorded
- All session recordings, slides, and notes are available at oc.lc/askqc
- After the session, you will be directed to a brief, optional survey



Virtual AskQC Office Hours feedback survey

Please take moment to provide feedback on today's office hour session. The responses are for informational purposes only and optional. Thank you for attending today's session!

* Required

1. What was the date of the session you would like to comment on? *

Please input date in format of M/d/yyyy

2. Did you find today's session useful?

Yes

No

Sort of

3. Why did you choose the answer you did in question 2?

Enter your answer

4. Are there topics you would like us to cover in the future?

On the call today



Shanna Griffith
Database Specialist II



Robin Six
Database Specialist II



Robert Bremer
Senior Consulting
Database Specialist



Bryan Baldus
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Nathan Putnam
Director, Metadata Quality

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

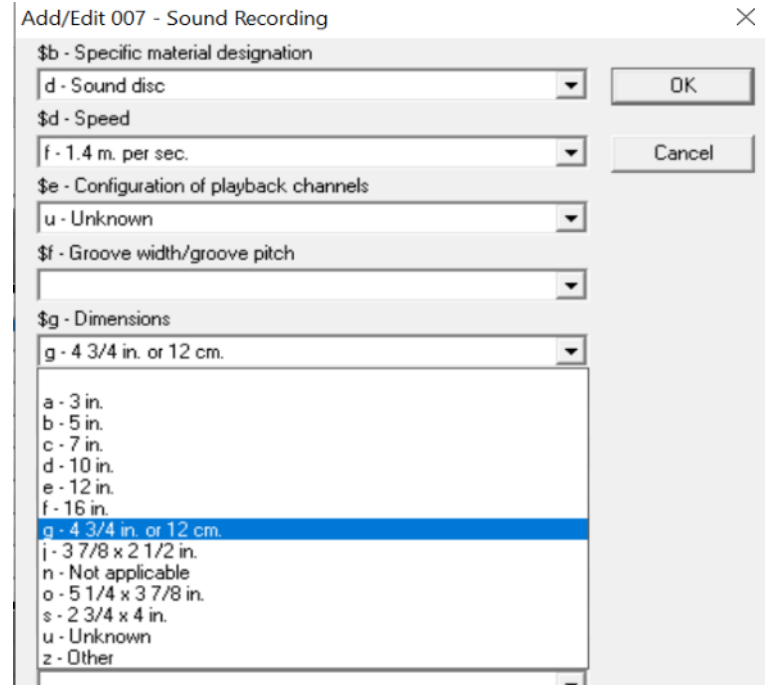
- Most current version is newer than what is included in the download of the Connexion client
- To download the newer version of OCLC macrobook, go to:

[oc.lc/cat-downloads](https://oclc.org/oclc/cats-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



Add/Edit 007 - Sound Recording

\$b - Specific material designation
d - Sound disc

\$d - Speed
f - 1.4 m. per sec.

\$e - Configuration of playback channels
u - Unknown

\$f - Groove width/groove pitch

\$g - Dimensions
g - 4 3/4 in. or 12 cm.

a - 3 in.
b - 5 in.
c - 7 in.
d - 10 in.
e - 12 in.
f - 16 in.
g - 4 3/4 in. or 12 cm.
j - 3 7/8 x 2 1/2 in.
n - Not applicable
o - 5 1/4 x 3 7/8 in.
s - 2 3/4 x 4 in.
u - Unknown
z - Other

OK

Cancel

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 Ꞥa = 1 audiocassette, the dialog box would display as on the left, click OK and macro adds:
 - **336 spoken word Ꞥb spw Ꞥ2 rdacontent**
 - **337 audio Ꞥb s Ꞥ2 rdamedia**
 - **338 audiocassette Ꞥb ss Ꞥ2 rdacarrier**

Add 33x - Fields 336, 337, and 338

336 - Content Type
spoken word

337 - Media Type
audio

338 - Carrier Type - Audio
audiocassette

338 - Carrier Type - Computer

338 - Carrier Type - Microform

338 - Carrier Type - Microscopic

338 - Carrier Type - Projected Image

338 - Carrier Type - Stereographic

338 - Carrier Type - Unmediated

338 - Carrier Type - Video

338 - Carrier Type - Unspecified

OK

Cancel

For 338 - Carrier Type, select a term from only one carrier type category on the left

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

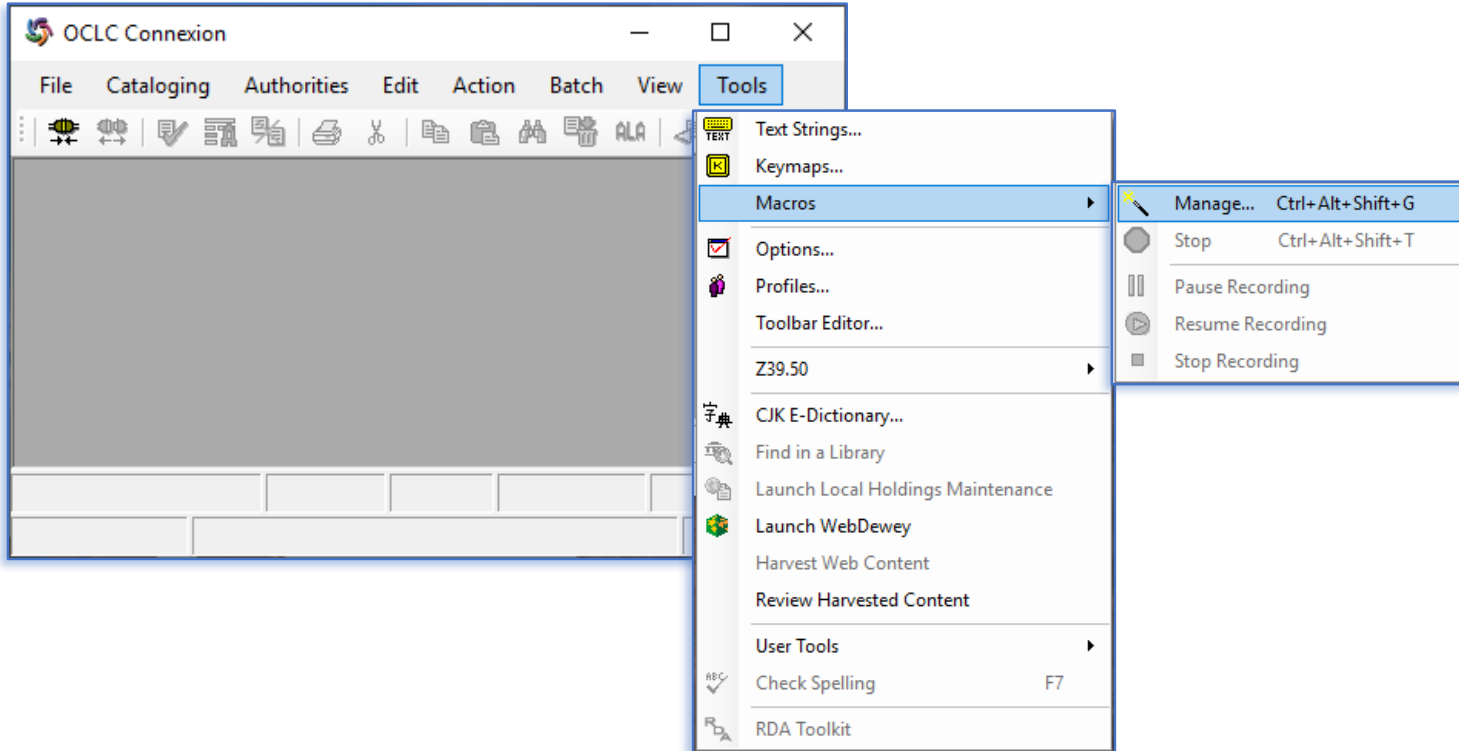
- Add&Edit007
- Add33x
- AddAuthority6xx
- AddSerialNotes
- BrowseAuthorityIndex
- BrowseBibliographicIndex
- ClearELvl3Workform
- Generate034
- Generate043
- Generate891
- GenerateAuthorityRecord
- GenerateERecord
- InsertHeading
- PunctuationAdd
- PunctuationRemove

Custom Connexion macro example

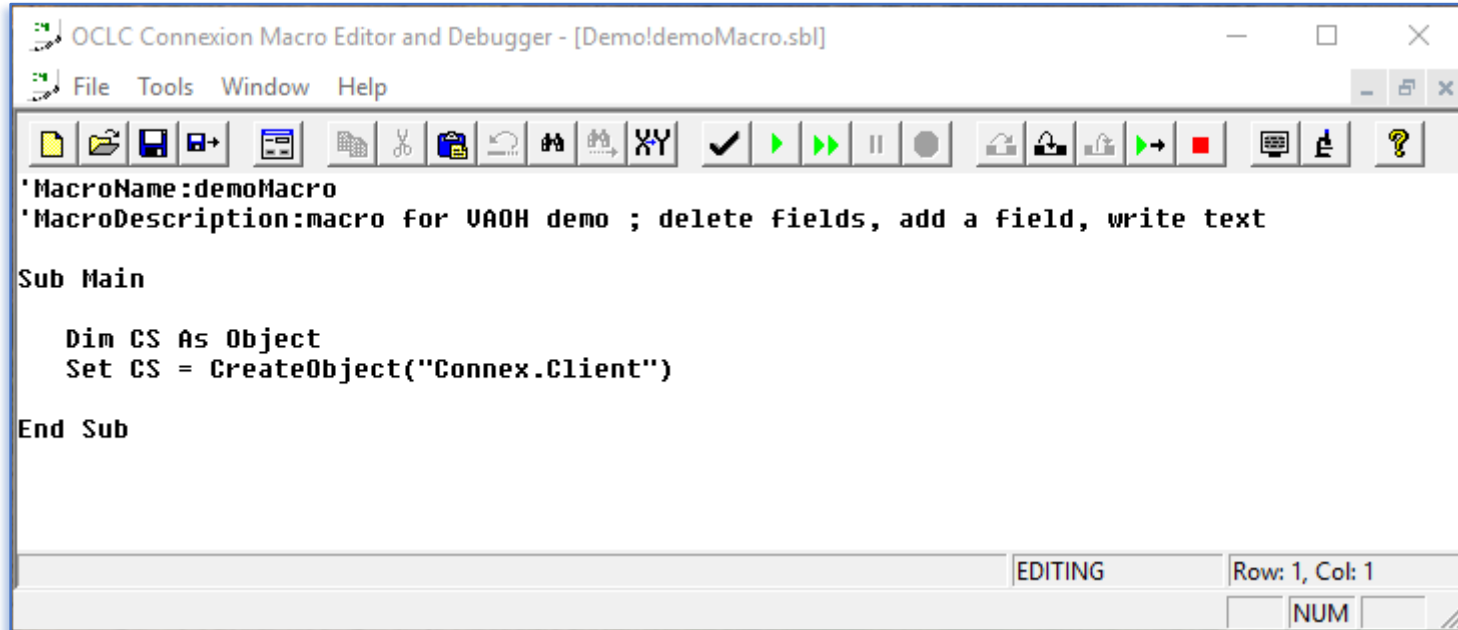
What do you want the macro to do?

- 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



Fill out the macro header information

```
'MacroName:demoMacro
'MacroDescription:macro for UAOH demo ; delete fields, add a field, write text
'Author: Robin Six, OCLC WorldCat Metadata Quality, Global Product Management
'Created: September 2, 2020

'macro works on a single record displayed on the screen, turn off fixed field

Sub Main
```

- Author information
- Created or revision date
- Anything else one might need to know to use the macro

Populate the declarations section

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

- 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

```
'020 fields with $z are deleted

Do While CS.GetField ("020", n, s020) = True
  If InStr(s020, "0z") <> 0 Then
    CS.DeleteField "020", n
  Else
    n = n + 1
  End If
Loop
```

Delete the field if it contains a subfield ≠z

Add a local note

```
'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>
- Walt Nickeson's macros <https://github.com/wnickeson/WaltsMacros>
- OCLC Macro Language for the Complete Beginner, written and provided by Joel Hahn, Nilas Public Library District, Nilas, Illinois
<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/>

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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 oclc.org/askqc

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



Photo by [Eric Rothermel](#) on [Unsplash](#)