

Getting the AppleScripts Software

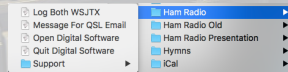


1. <https://tasmus.com/ham/applescript-integration/> and click on the download option.
2. In your downloads folder, unzip the downloaded folder by double clicking on it.

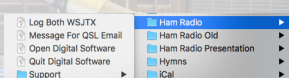
To Work Correctly, the AppleScripts MUST be in the Correct Location.

Drag the "Ham Radio" folder from Downloads to
"Macintosh HD:Users:homeFolder:Library:Scripts:"

- Test by clicking on the AppleScript Menu icon  located toward the top right of the main window bar.



Using the AppleScripts



- ❑ Before calling "Log Both WSJTX", you must have the call sign in MacLogger selected. Then, put a cursor into the WSJTX log dialog in the name field. Now you can call "Log Both WSJTX".
- ❑ Before calling "Message for QSL Email", you must click the Email Button in MacLoggerDX. Then, call "Message for QSL Email".

Primary AppleScripts and What They Do

Open Digital Software.scp

1. Identifies the status of FLDIGI and WSJTX
2. If neither are running, a dialog appears where the desired software can be selected.
3. If one is running, its associated software is quit, and the other software set is run.

Quit Digital Software.scp

1. Identifies which software set is running FLDIGI or WSJTX.
2. The set that is running is quit.

Primary AppleScripts and What They Do Continued

Log Both WSJTX.scp

1. If WSJTX is running, the QSO will be logged in both WSJTX and MacLoggerDX.
2. For this script to work,
 - a. it is important that the contacts entire call sign is selected in MacLoggerDX and
 - b. a cursor is in the Name field of the WSJTX Logging dialog.

Message For QSL Email.scp

1. Prior to running this script, click on the Email button on the QSO panel of MacLoggerDX. This will cause the QSO card to be created in Apple Mail.
2. Run the Message For QSL Email script.
3. This will create a few custom lines in the email to personalize it.
4. It then signs your email with
 - a. 73,
 - b. Your first name, and
 - c. Your callsign.

Interesting Code Snippets

Folder and File Paths

```
--Get Home Folder Location As Text and Alias
set homeFolder to (path to home folder as text)
set homeFolderAlias to (path to home folder as alias)

--Get Scripts Folder Location As Text and Alias
set scriptsFolder to homeFolder &
    "Library:Scripts:" as text
set scriptsFolderAlias to homeFolder &
    "Library:Scripts:" as alias

--Get Ham Radio Software Folder Location As Text
and Alias
set hamFolder to scriptsFolder & "Ham Radio
New:" as text
set hamFolderAlias to scriptsFolder & "Ham Radio
New:" as alias
```

```
--Get Support Software Folder Location As Text and
Alias
set supportFolder to hamFolder & "Support:" as
text
set supportFolderAlias to hamFolder & "Support:"
as alias

--Set Software Paths
set FLDIGIalias to supportFolder & "Open FLDIGI
Software.sct" as alias
set WSJTalias to supportFolder & "Open WSJT
Software.sct" as alias
```

WHAT DIGITAL SOFTWARE IS RUNNING?

For A Particular Software Set

```
tell application "fdigi-4.2.06"
    if application "fdigi-4.2.06" is running
then
    run script quitFLDIGIalias
end if
end tell

tell application "wsjtx"
    if application "wsjtx" is running then
        run script quitWSJTalias
    end if
end tell
```

WHAT DIGITAL SOFTWARE IS RUNNING?

For Any Software Set

```
tell application "wsjtx"
    if application "wsjtx" is running then
        set wsjtx to true
    else
        set wsjtx to false
    end if
end tell

if wsjtx = false and fdigi = false then
    --if no digital software is running do
    this
else if wsjtx = true then
    --if wsjtx software is running do this
else if fdigi = true then
    --if fdigi software is running do this
end if

tell application "fdigi-4.2.06"
    if application "fdigi-4.2.06" is running
then
    set fdigi to true
    else
    set fdigi to false
    end if
end tell
```

Customize QSO Email

```
tell application "Mail" to activate

tell application "System Events"
    key code 125 --Same as pressing the down arrow once
    keystroke return & "Thanks for the contact " & firstName & "!" & return & return & "73," &
        return & return & myFirstName & return & myCallSign & return
    keystroke "D" using {command down, shift down}
end tell

delay 1

tell application "Mail" to send
```



Ted Asmus
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Integration Manual

Digital Software AppleScripts


The ham radio Mac OSX community uses two primary pieces of digital modes software: FLDIGI and WSJT-X. The operation of FLDIGI software is enhanced by the addition of FLRIG to control the ham transceiver for FLDIGI and the addition of a logging program such as MacLoggerDX. WSJT-X is enhanced by the addition of JT-Bridge software for passing contact information between both WSJT-X and MacLoggerDX. FLDIGI and WSJT-X each require a total of three pieces of software to operate well. Applescript, is a built-in scripting language that allows the direct control of both Mac applications and the Mac operating system itself. This presentation will provide a system of integrated Applescripts that allow the ham operator to fluidly move between the FLDIGI and the WSJT-X software sets, control the operation of the sets, and offers enhancements that reduce operator time and increase operator efficiency.

This manual makes the assumptions that (1) the software is loaded into your computer; (2) you can work both FT8 and PSK31; (3) AppleScript is up and working on your computer; and (4) you use Apple Mail as your e-mail program.

Don't worry, if you haven't accomplished the above yet, there are hundreds of tutorials on YouTube and elsewhere to help you!

TABLE OF CONTENTS	2
PRELIMINARIES	3
ENABLE THE APPLESCRIPT MENU	3
Enable Manually	3
Enable Via AppleScript	3
WORKING WITH THE USER LIBRARY	3
Set the Library Folder to Visible	3
AppleScript to Open the User Library	3
FLDIGI & MACLOGGERDX	4
LOADING A PRE-MADE LOGGING APPLESCRIPT THAT WORKS	4
CREATE A FLDIGI BUTTON TO RUN THE _LOG2MLDX.SCPT	4
USING THE MACLOGGER BUTTON	4
INTEGRATION APPLESCRIPTS	5
DOWNLOADING READY TO RUN APPLESCRIPTS	5
MODIFYING APPLESCRIPTS TO WORK FOR YOU	5
PRIMARY APPLESCRIPTS AND WHAT THEY DO	6
Open Digital Software.scpt	6
Quit Digital Software.scpt	6
Log Both WSJTX.scpt	6
Message For QSL Email.scpt	6
INTERESTING CODE	7
FOLDER AND FILE PATHS	7
WHAT DIGITAL SOFTWARE IS RUNNING?	7
CUSTOMIZE QSO EMAIL	8
RESOURCES	10
A HELPFUL HINT	10
APPLE SCRIPTING	10
FLDIGI	10
JT-BRIDGE	10
MACLOGGERDX	10
WSJTX	10

Enable the AppleScript Menu

If you cannot see the AppleScript Menu icon  in the menu bar, you need to enable the AppleScript Menu as detailed here.

Enable Manually

1. Open Script Editor
2. Open Preferences
3. Select the General tab
4. Put check marks next to "Show Script menu in menu bar" and "Show Computer scripts"
5. Click on the new Scripts Menu icon in the menu bar and you will see Computer scripts plus your own scripts (if there are any)

Enable Via AppleScript

```
tell application "AppleScript Utility"
  if not Script menu enabled then
    set Script menu enabled to true
    set application scripts position to top
    set show Computer scripts to true
  else
    set application scripts position to top
    set show Computer scripts to true
  end if
end tell
```

Open in Script Editor

Working With The User Library

A Mac OSX computer that does not display the Library Folder in the Home Folder requires that the Library Folder be unhidden as indicated here.

Set the Library Folder to Visible

1. Press Command-Shift-h to open your home folder.
2. Press Command-j to show the view options.
3. Check the box to show Library folder.

AppleScript to Open the User Library

```
set folderPath to (path to library folder) as text
tell application "Finder" to open folderPath
```

Open in Script Editor


Loading a Pre-Made Logging AppleScript that Works

1. Open the most recent MacLoggerDX.dmg file that is probably located in your downloads folder.
2. Then, identify the file "MacLoggerDX:Extras:AppleScripts:Fldigi:_Log2MLDX.scpt".
3. Open your Home Folder and identify the folder .fldigi. This folder is normally hidden, see above for how to unhide,
4. Locate the folder Scripts.
5. Drag the _Log2MLDX.scpt file into the ".fldigi:Scripts" folder.

Create a FLDIGI Button to Run the _Log2MLDX.scpt

1. Run FLDIGI.
2. In a FLDIGI macro bar unused button, control-click (right-click). This will display the button's macro editor.
3. In the Macro Text field enter "<EXEC>osascript /Users/edwardasmus/.fldigi/scripts/_Log2MLDX.scpt</EXEC>".
4. In the Macro Button Label enter "MacLogger".
5. Click the Apply button.
6. To save the button created permanently, you must select "Save Config" from under the FLDIGI Configure menu.

Using the MacLogger Button


1. Once a contact is made in FLDIGI, click on the contacts call sign. This will place it automatically in the Call field.
2. Then click the QRZ button.  This will go out to QRZ and populate the FLDIGI fields with the contact's information.
3. When the QSO is complete, push the MacLogger button. This will cause the contact's information to be copied into MacLoggerDX which then logs the contact.

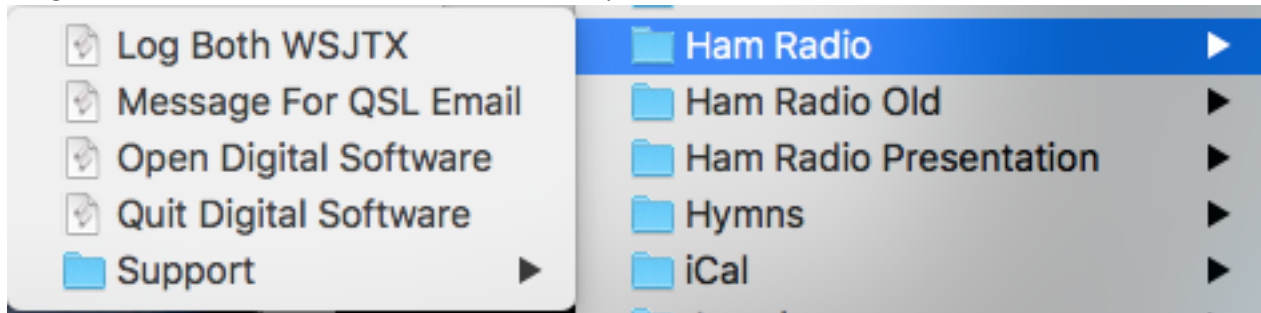
Integration Manual

Digital Software AppleScripts

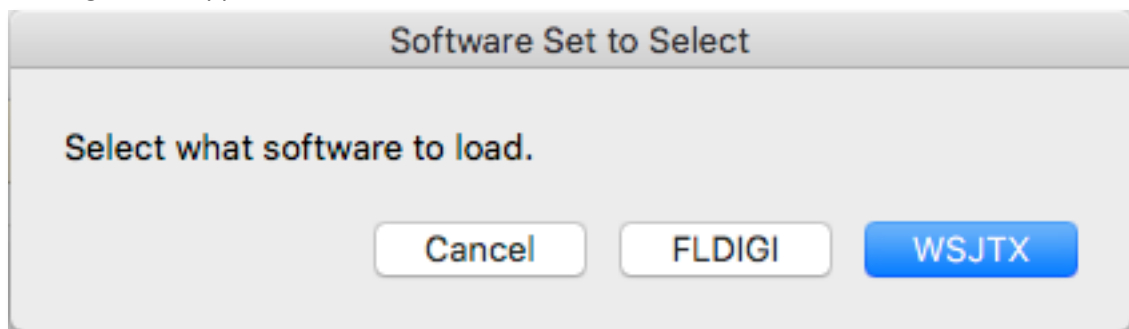
Integration AppleScripts

Downloading Ready to Run AppleScripts

1. In your browser go to <https://tasmus.com/ham/applescript-integration/> and click on the download option.
2. Find the downloaded file in your Downloads. It is a .zip file. Double click on it to unzip it.
3. Open a new Finder Window to your Home Library folder scroll down and locate the Scripts folder.
4. Drag the Ham Radio folder from the unzipped material in your Downloads folder and drag it into the Scripts folder of your library folder "Macintosh HD:Users:homeFolder:Library:Scripts:".
5. Test Access to the Integration AppleScripts by:
 - a. Click on the AppleScript Menu icon . You should be able to see the menu option Ham Radio.
 - b. Drag down and hover over the Ham Radio menu option. You should see this:



6. Try one routine by selecting the menu option Open Digital Software.
 - a. A dialog should appear like this:



- b. Click Cancel. The dialog should disappear indicating the AppleScripts involved are running correctly.

Modifying AppleScripts to Work for You

One of the primary scripts, Message For QSL Email, requires a modification so that the email comes from you. That is, you will need to insert your first name and your call sign to replace the existing information.

1. Open the Script Editor. The Script Editor is located in the Utilities Folder following the path "Macintosh HD:Applications:Utilities:Script Editor.app".
2. Once the Script Editor is running, open the file Message For QSL Email that is located at "Macintosh HD:Users:homeFolder:Library:Scripts:Ham Radio:Message For QSL Email.scpt". The following AppleScript will do both these actions:

--Get Home Folder Location As Text and Alias

set homeFolder **to** (**path to** home folder **as** text)

set homeFolderAlias **to** (**path to** home folder **as** alias)

--Get Scripts Folder Location As Text and Alias

set scriptsFolder **to** homeFolder & "Library:Scripts:" **as** text

set scriptsFolderAlias **to** homeFolder & "Library:Scripts:" **as** alias

--Get Ham Radio Software Folder Location As Text and Alias

set hamFolder **to** scriptsFolder & "Ham Radio:" **as** text

set hamFolderAlias **to** scriptsFolder & "Ham Radio:" **as** alias

tell application "Script Editor"

activate -- opens the Script Editor

open hamFolder & "Message For QSL Email.scpt" **as** alias

end tell

3. The top two lines of the "Message For QSL Email.scpt" need to be changed. Here are the first two lines:

property myFirstName : "Ted" **as** text

property myCallSign : "K8UKE" **as** text

- a. Change the first name in the myFirstName property to your name. It must be within the quotes.
- b. Change the callsign in the myCallSign property to your callsign. It must be within the quotes.
- c. Save the "Message For QSL Email.scpt". That is all that needs to be done to these AppleScripts.

Primary AppleScripts and What They Do

Open Digital Software.scpt

1. Identifies the status of FLDIGI and WSJTX
2. If neither are running, a dialog appears where the desired software can be selected.
3. If one is running, its associated software is quit, and the other software set is run.

Quit Digital Software.scpt

1. Identifies which software set is running FLDIGI or WSJTX
2. The set that is running is quit

Log Both WSJTX.scpt

1. If WSJTX is running, the QSO will be logged in both WSJTX and MacLoggerDX.
2. For this script to work,
 - a. it is important that the contacts entire call sign is selected in MacLoggerDX and
 - b. a cursor is in the Name field of the WSJTX Logging dialog.

Message For QSL Email.scpt

1. Prior to running this script, click on the Email button on the QSO panel of MacLoggerDX. This will cause the QSO card to be created in Apple Mail.
2. Run the Message For QSL Email script.
3. This will create a few custom lines in the email to personalize it.
4. It then signs your email with
 - a. 73,
 - b. Your first name, and

Integration Manual

Digital Software AppleScripts

Interesting Code

Folder and File Paths

Provides a way to locate all files on any Mac OSX computer.

--Get Home Folder Location As Text and Alias

set homeFolder **to** (**path to** home folder **as** text)

set homeFolderAlias **to** (**path to** home folder **as** alias)

--Get Scripts Folder Location As Text and Alias

set scriptsFolder **to** homeFolder & "Library:Scripts:" **as** text

set scriptsFolderAlias **to** homeFolder & "Library:Scripts:" **as** alias

--Get Ham Radio Software Folder Location As Text and Alias

set hamFolder **to** scriptsFolder & "Ham Radio:" **as** text

set hamFolderAlias **to** scriptsFolder & "Ham Radio:" **as** alias

--Get Support Software Folder Location As Text and Alias

set supportFolder **to** hamFolder & "Support:" **as** text

set supportFolderAlias **to** hamFolder & "Support:" **as** alias

What digital software is running?

Determine what, if any, digital software set (FLDIGI, WSJTX) is running

tell application "wsjtx"

if application "wsjtx" **is** running **then**

set wsjtx **to** true

else

set wsjtx **to** false

end if

end tell

tell application "fldigi-4.2.06"

if application "fldigi-4.2.06" **is** running **then**

set fldigi **to** true

else

set fldigi **to** false

end if

end tell

if wsjtx = false **and** fldigi = false **then**

display dialog "Select what software to load." **with title** "Software Set to Select"

buttons {"Cancel", "FLDIGI", "WSJTX"} **default button** "WSJTX" **cancel button** "Cancel"

```

if button returned of result = "FLDIGI" then
    run script FLDIGIalias
else if button returned of result = "WSJTX" then
    run script WSJTXalias
end if
else
    swapSoftware(wsjtx, fldigi, WSJTXalias, FLDIGIalias, supportFolder)
end if

```

Customize QSO Email

Sends your contact a customized email containing the QSO card created by MacLoggerDX

```

property myFirstName : "Ted" as text
property myCallSign : "K8UKE" as text
property firstNameList : {"Edward", "Douglas", "Matthew", "Robert", "Walter", "William"}
property nickNameList : {"Ed", "Doug", "Matt", "Bob", "Walt", "Bill"}

```

-- Applescript Lines To Get File Locations

--Get Home Folder Location As Text and Alias

```

set homeFolder to (path to home folder as text)
set homeFolderAlias to (path to home folder as alias)

```

--Get Scripts Folder Location As Text and Alias

```

set scriptsFolder to homeFolder & "Library:Scripts:" as text
set scriptsFolderAlias to homeFolder & "Library:Scripts:" as alias

```

--Get Ham Radio Software Folder Location As Text and Alias

```

set hamFolder to scriptsFolder & "Ham Radio:" as text
set hamFolderAlias to scriptsFolder & "Ham Radio:" as alias

```

--Get Support Software Folder Location As Text and Alias

```

set supportFolder to hamFolder & "Support:" as text
set supportFolderAlias to hamFolder & "Support:" as alias

```

--Set Alias To Reorder Routine

```

set reorderAlias to supportFolder & "ReOrder Software.scpt" as alias

```

```

tell application "MacLoggerDX"

```

```

    set firstName to first_name of qso 1

```

```

    set firstName to word 1 of firstName

```

```

end tell

```

```

set theIndex to getPositionOfItemInList(firstName, firstNameList) as integer

```

```

if theIndex > 0 then

```

```

    set firstName to item theIndex of nickNameList

```

```

end if

```

```

tell application "Mail" to activate

```



```

tell application "System Events"
    key code 125
    keystroke return & "Thanks for the contact " & firstName & "!" & return & return &
    "73," & return & return & myFirstName & return & myCallSign & return
    keystroke "D" using {command down, shift down}
end tell

delay 1

tell application "Mail" to send

delay 2

run script reorderAlias

on indexOfStringInList(targetItem, aList)
    set i to 1
    repeat with aItem in aList
        considering case
            set compareResult to (aItem as string = targetItem as string)
        end considering
        if compareResult is true then
            return i
        end if
        set i to i + 1
    end repeat
    return missing value
end indexOfStringInList

on getPositionOfItemInList(theItem, theList)
    repeat with a from 1 to count of theList
        if item a of theList is theItem then return a
    end repeat
    return 0
end getPositionOfItemInList

```

A Helpful Hint

A wealth of material for different aspects of loading digital software and using various digital modes is readily available on YouTube. Just type in what you are interested in the search field and you will probably get a lot of hits with the information you need.

AppleScripts Integrating Digital Software

<https://tasmus.com/ham/applescript-integration/>

Apple Scripting

AppleScript Language Guide

https://developer.apple.com/library/archive/documentation/AppleScript/Conceptual/AppleScriptLangGuide/reference/ASLR_cmds.html

FLDIGI

FLDIGI Download <https://sourceforge.net/projects/fldigi/>

FLDIGI User's Manual http://www.w1hkj.com/files/fldigi/fldigi_help.pdf

JT-Bridge

JT-Bridge Download <https://jt-bridge.eller.nu/downloads/>

JT-Bridge Help <https://jt-bridge.eller.nu/documentation/>

MacLoggerDX

MacLoggerDX Download <https://www.dogparksoftware.com/MacLoggerDX.html>

MacLoggerDX Manual <https://www.dogparksoftware.com/MacLoggerDX%20Help/MacLoggerDX%20Help.html>

MacLoggerDX WSJT-X And JT-Bridge How To <https://k0pir.us/macloggerdx-wsjt-x-jt-bridge/>

WSJTX

WSJTX Download <https://sourceforge.net/projects/wsjt/>

WSJT-X User Guide <https://wsjt.sourceforge.io/wsjtx-doc/wsjtx-main-2.6.1.html>