

# XPERTSS LISTER V1.3

## XDOCMACROS - PROGRAM DOCUMENTATION

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## **Contact Information**

**XpertSS.Com**

29 Beech Hill Lane

Pound Ridge, NY 10576 USA

[www.xpertss.com](http://www.xpertss.com)

# XDOCMACROS - PROGRAM DOCUMENTATION

## INTRODUCTION TO THE XDOCMACROS PROGRAM

The XDOCMACROS program is designed to make it easy for Approach developers to document the macros and named find/sorts used in Lotus Approach View Files (.APR files). And it also provides a variety of forms to review them and a set of reports on their content. Notes can be added at the APR level, the MACRO level, and the “command step” level within the macros to make the documentation of your APR file more complete.

## SYSTEM REQUIREMENTS

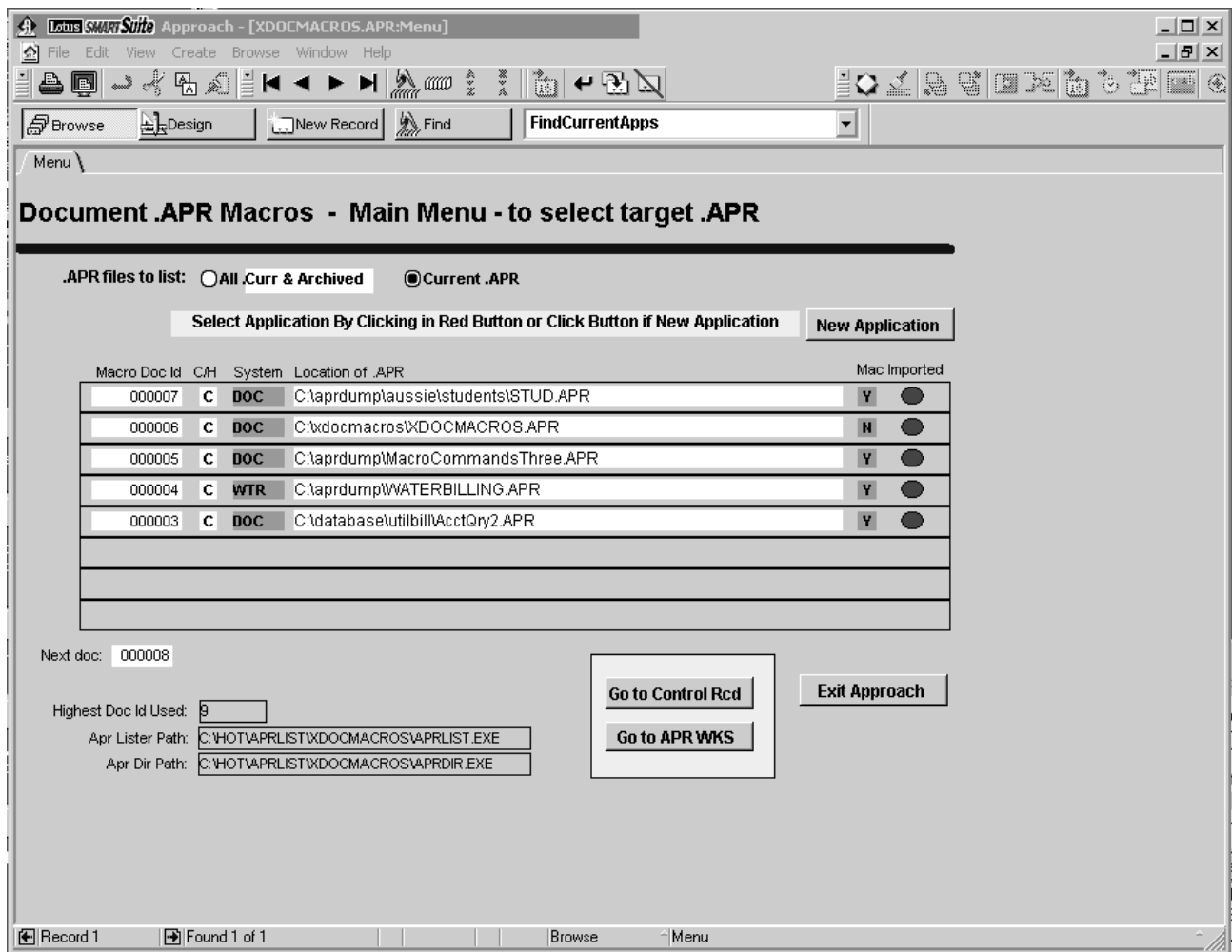
While this program may run successfully on other configurations, we recommend the following:

- ✓ Microsoft Windows 95/98/2000/XP
- ✓ 512 MB RAM
- ✓ 20 MB free disk space
- ✓ Monitor resolution set at 1024x768
- ✓ Approach version 97 or 9.x

## OPENING THE PROGRAM FOR THE FIRST TIME

The first screen you will see when you open XDOCMACROS.APR is the “Main Menu” shown below. It lists the .APR files you have selected for macro documentation in the past and shows you their parameters and status.

- Macro Doc Id – is the internal document number.
- C/H – indicates whether the macro documentation is current (C) or archived (H).
- System – is a grouping code you can use to produce reports that include multiple .APRs
- Location of .APR – is the full path and file name of the .APR file when it was documented.
- Mac Imported – is an indicator of whether the macros for the .APR have been imported into the databases (Y for yes, N for no)



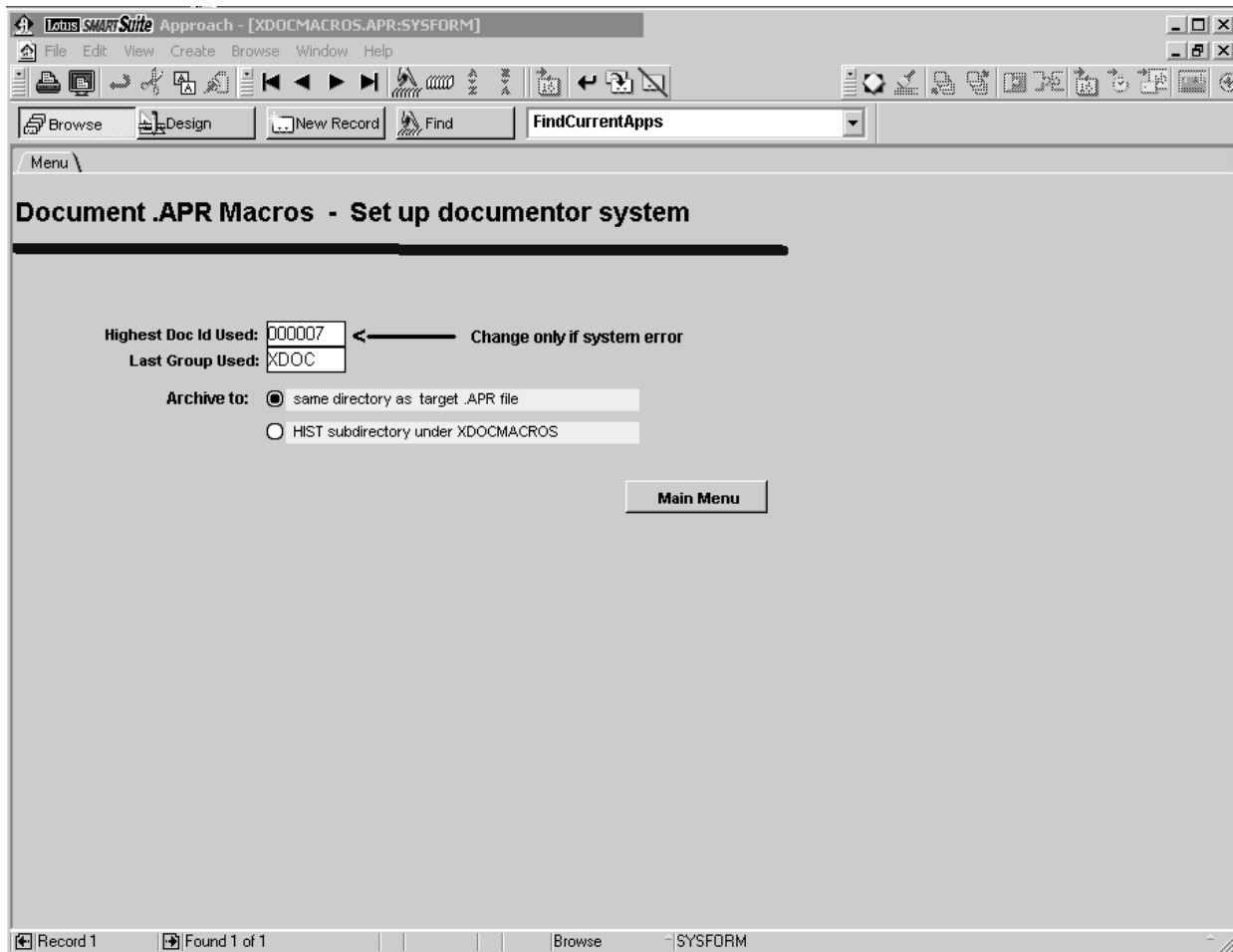
Click one of the radio buttons at the upper left of the screen to display either all .APR files imported into XDOCMACROS or only the APR files which have not been archived.

Six actions are available from the above screen:

1. Click the button "Goto Control Rcd" to edit the system parameters controlling XDOCMACROS. This is the first thing you should do after installing the programs.
2. Click the button "Add Application" - to select a new .APR to add to the list.
3. Click the red oval in the repeating panel to select the .APR named on that line for further action and you will see the Setup Menu, which is described later in this document.
4. Click the Button "Goto APR WKS" to display the worksheet view of the maclink2 database, which is the data file displayed in the repeating panel. You may only want to use this view to delete records you no longer want to keep, but if you have added the .APR's macros to the databases, you should use the archiving process described later in this document.
5. Click the button "Exit Approach" to quit this application and exit Approach

## SETTING UP YOUR SYSTEM FOR USE

On the Main Menu screen, click the button labeled “Goto Control Rcd” and the following screen will appear.



The purpose of this screen is to view and possibly modify the default values for the operation of the program.

- Highest Doc Id Used: -- this is the internal number of the last .APR you documented with this program. You should change it only if you are certain the number will not overlap any existing .APR's ID.
- Last Group Used: -- this will default to “DOC”. You can override it when documenting new APR files. If you change it here, it will remain in effect as long as you do not close this program.
- Archive to: -- lets you set the option on where archived data for your APR files will be saved.

## THE MAIN MENU SCREEN

On the Main Menu screen, click the button labeled “Add Application” and the following screen will appear. This screen is used to select an .APR using a pop up File Selection Dialog and then to create a maclink2 database record which controls access to the selected .APR file.

**Select Application (.APR) to document**

Apr Dir Exe Path: C:\HOT\APRLIST\XDOCMACROS\APRDIR.EXE

APR name:  **Get APR Name**

Group (System): DOC

Doc ID# 000008 000007 Last document id used:

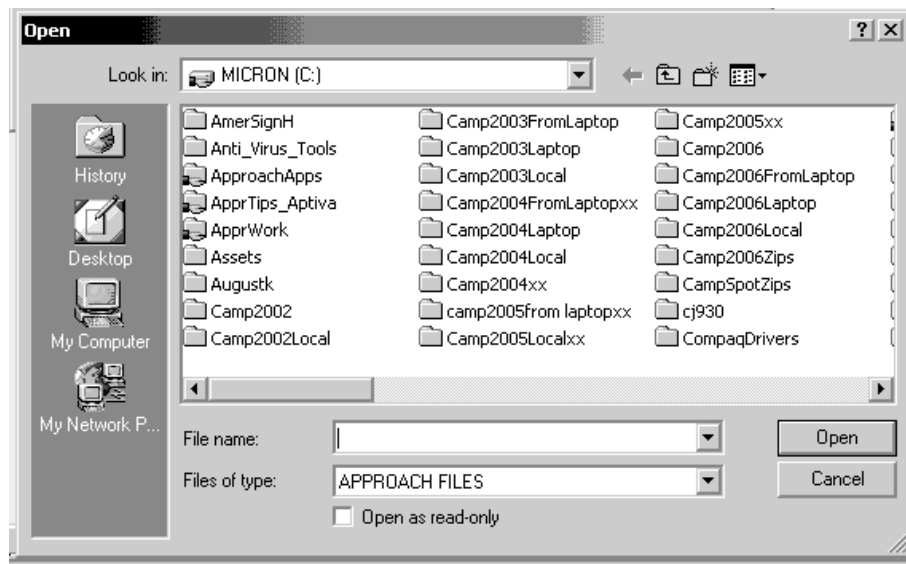
**Create New Application Link Record** **Cancel Add**

Click the button “Get APR NAME” which will cause the Select .APR Program screen to pop up.

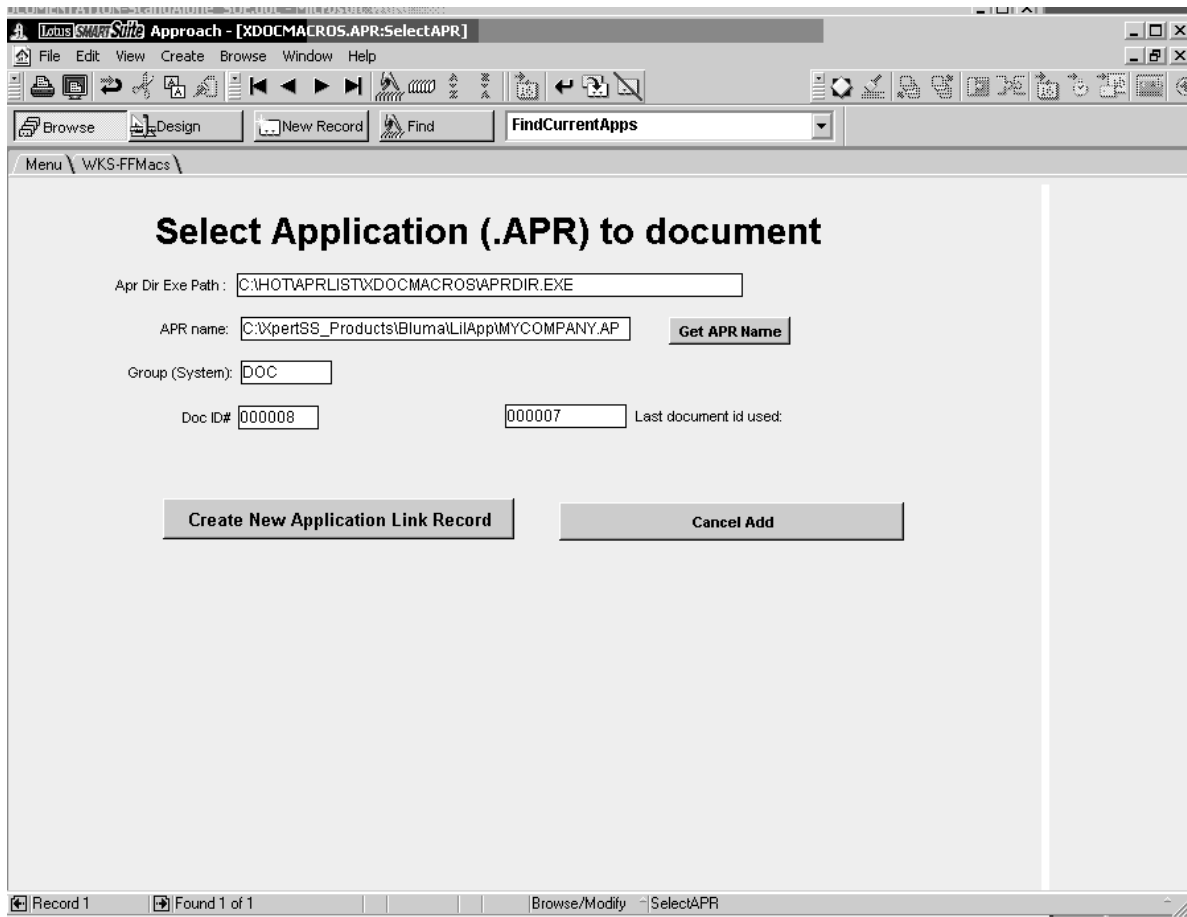
**Lotus Approach - Select .APR Program**

.APR name: Edit4 ...

Click on the box with the “...” To open the File Select Dialog.



Use the dialog shown above to find the .APR file you want to add to the system. When you have chosen the file name in the File Selection Dialog and the form disappears, click the OK button in the Message Box to copy the .APR name to the .Apr Name field box.



**Group (System)** -- the program will fill in the system group code. This is a 4- letter group name you may use to relate several .APR files comprising an application system. For example, you might have your update procedures in one APR and your report procedures in another. There are reports that can extract data from both APR programs if they are assigned the same group name. By default the system assigns "DOC" as the group. You can type over that default value.

**Doc ID#** -- the program assigns the Doc ID# for you and you must not change it. This number must be unique and consist of a six character numeric field "000001", for example. This is the key field for all data for the .APR with this ID# that is maintained in the XDOCMACRO database system.

Click the button "Create New Application Link Record" to create the maclink2 record and to return to the Main Menu for further processing of the .APR just selected.

Click the button "Cancel Add" if you entered this screen by mistake. This returns to the Main Menu without creating the maclink2 record.



## THE SETUP MENU SCREEN

From the Main Menu, select the red oval to the right of the APR file in the panel that you want to work with and you will be taken to the Setup Menu.

This screen is used to bring the data into the XDOCMACROS databases from your selected .APR and it includes further actions, such as reports, once the data is imported. The Setup Menu screen appears initially in the format shown below:

Document .APR Macros - SETUP MENU - to generate & import macro data

Document: 000006    Name of .APR File: C:\xdocmacros\XDOCMACROS.APR    Status: C

List pgm path: C:\HOT\APRLIST\XDOCMACROS\APRLIST.EXE  
Dir pgm path: C:\HOT\APRLIST\XDOCMACROS\APRDIR.EXE

First macro name and number of macros may be obtained from the Approach File Properties page in the target application by clicking Open target .APR FILE button -> **Open target .APR**

>>> NOTE - First macro name is case sensitive!!! <<<

First Macro Name:

Number of macros:

List macros from number (0-999 for all):  Through:

Import System code (OPTIONAL):

Gen Setup File Date:  **1-Generate Setup File**

Macro file build date:  **2-Bld Macro File**

**3-Print Named Find List** **3-Print Macro text file**

Macros imported date:  **4-Import Macro File**

F/F Mac Load Date:  **5-Form/Fld Macros**

**Enter an APR Note**

**Records imported**

Mac rcds	Cmd rcds	Data flds
<input type="text"/>	<input type="text"/>	<input type="text"/>
FF Macs ? <input type="text"/>		

**Actions after import MENU**

- Main Menu
- BrowseMenu
- Report Menu
- Form/Fld Macros
- Archive Records
- Exit Approach

Record 1    Found 1 of 7    Page 1    Browse/Modify Setup

## HOW TO IMPORT YOUR .APR DATA

The left side of the screen controls the actions performed to import the .APR data. The right side shows a menu labeled “Actions after Import MENU” which controls reporting and other actions once the data is imported.

Here is the sequence of steps to import the data from an .APR:

Step 1. Click the button “**Open target .APR**” to open your selected .APR file to view the Approach File Properties screen if you need to get the first macro name and the number of macros before continuing. This step is optional if you already have this information.

See the section in the APRLIST – PROGRAM DOCUMENTATION titled “Preparing Your .APR File for Documentation” for further information. Note that the .APR file will not open successfully if it uses more than 24 .dbf Files due to the Approach limitation of 30 files open at one time. There are six files already open by XDOCMACROS.

Step 2. Enter the first macro name and the number of macros in the appropriate field boxes. Leave the other boxes as they appear for now.

**Note:** 1) The macro name is “case sensitive” and must be entered exactly as shown in your .APR file. 2) The number of macros must be the same as shown in the APR file or the program may hang or crash.

Step 3. Click the button “1-Generate Setup File” which creates a control file for the APRLIST.EXE program.

Step 4. Click the button “2-Bld Macro File” to start the APRLIST program. You will see the screens as shown in the APRLIST – PROGRAM DOCUMENTATION section “The APRLIST Program Screen”.

Step 5. Click the buttons “3-Print Macro Textfile” and /or “3-Print Named Find List” to print the two reports generated by APRLIST.EXE.

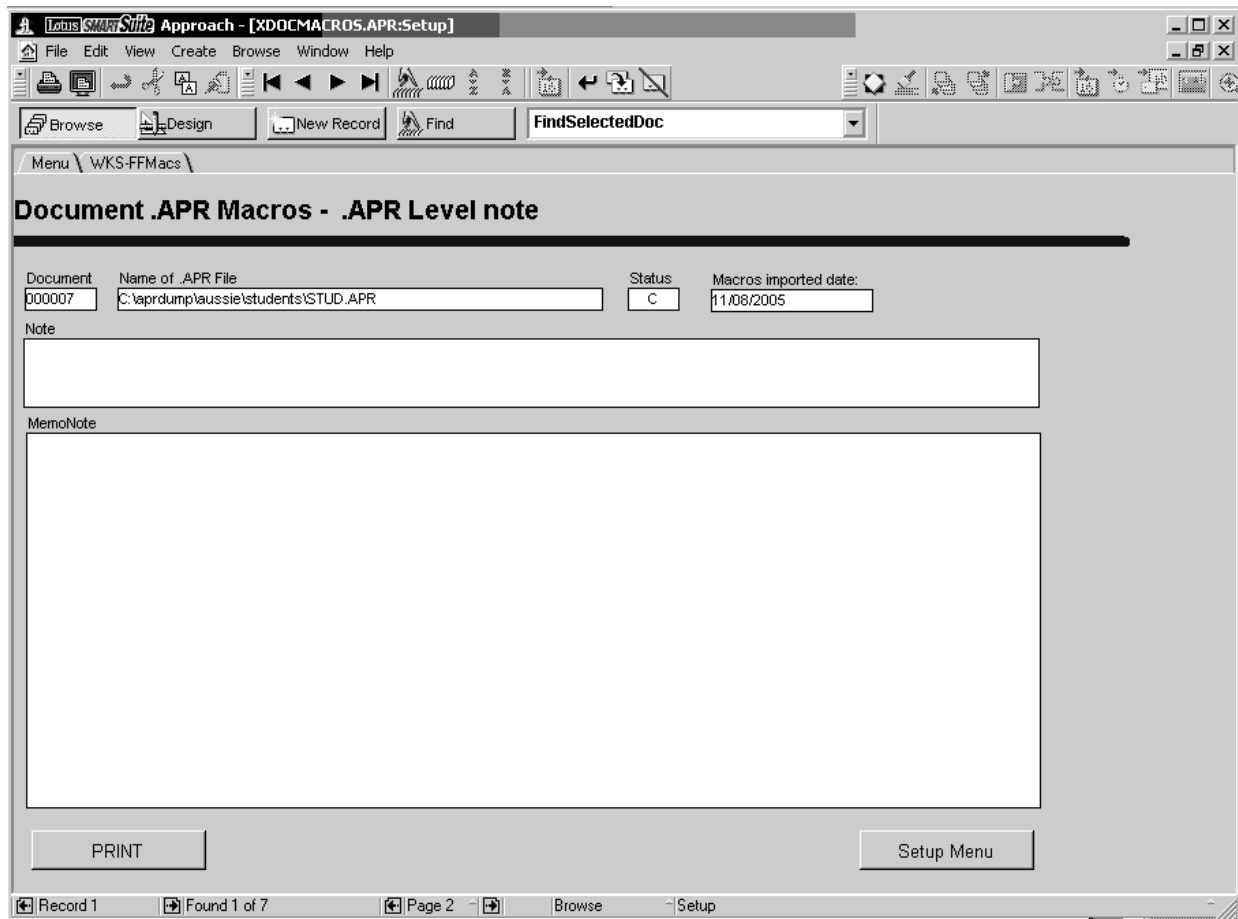
**Note:** this is the only place you can print the named finds. This file is overwritten the next time you use the “2-Bld Macro File” button.

Step 6. Click the button “4-Import Macro File” to bring the information created by APRLIST into the XDOCMACROS databases.

Step 7. Click the button “5-Form/Fld Macros” to generate a list of macros attached to views and objects in those views. This step is optional and is subject to the 24 files in your .APR limitation mentioned above.

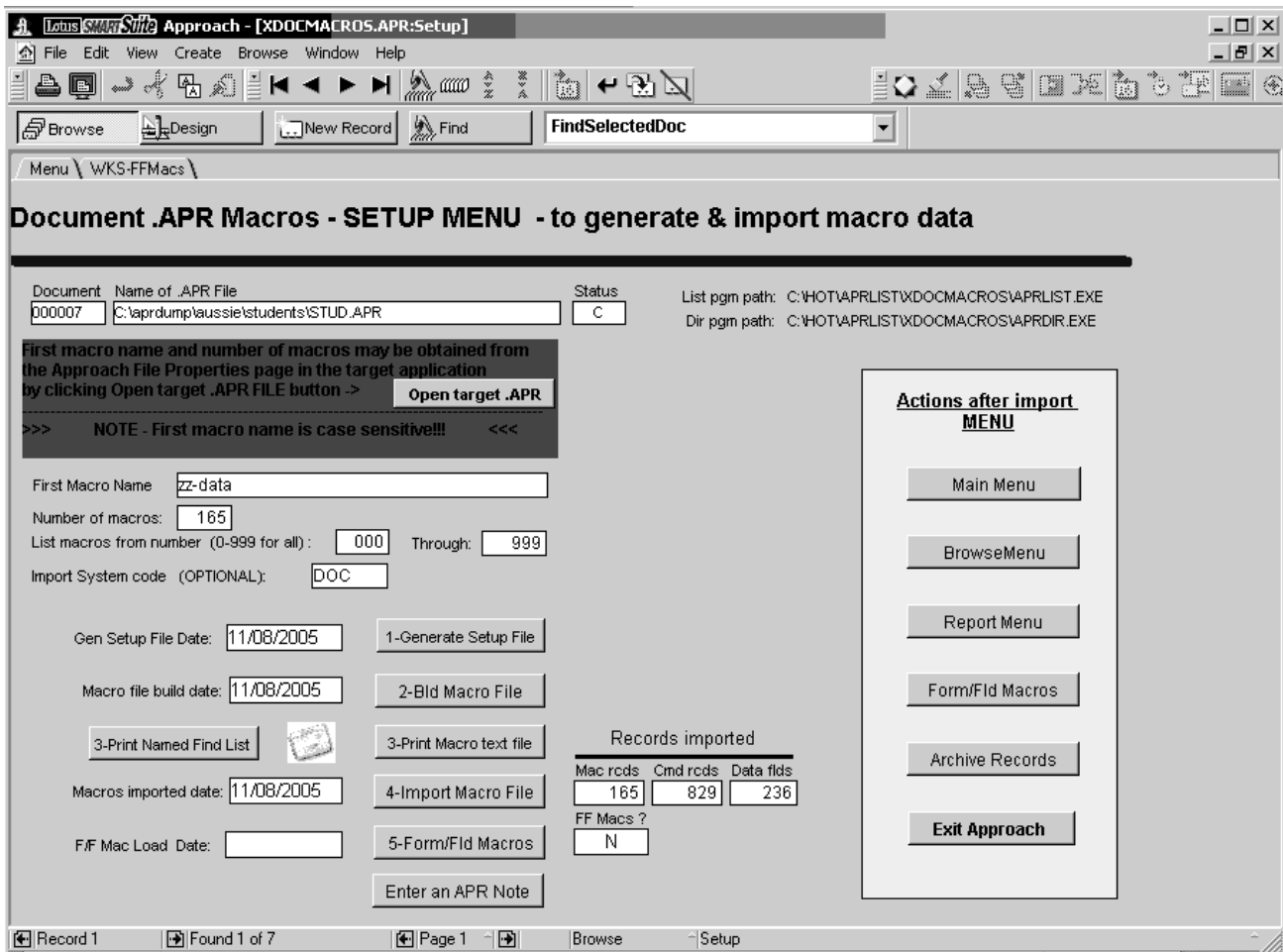
Note that at this point you will see dates have been filling in for the various actions performed and summary information about the .APR content imported will be displayed for your information.

Step 8. Optionally click the button “Enter An Apr Note” to go to the second page of this menu and to add either a short comment (254 characters) and / or a memo comment regarding the .APR file. This screen is shown on the next page.



You may print this note for your documentation if desired, or return to the Setup Menu using the button provided.

The SETUP MENU AFTER your .APR File is imported appears below:



## THE ACTIONS AFTER IMPORT MENU

You are now ready to use the “Actions after Import MENU” buttons on the right of the screen. The buttons perform the following functions:

- Click the button “Main Menu” to select a different .APR for review or processing.
- Click the button “Browse Menu” to view a list of the individual macros contained in the imported APR file.
- Click the button “Report Menu” to select any reports you may wish to view or print.
- Click the button “Form / Field Macros” to view the macros attached to views and controls in your target .APR.
- Click the button “Archive Records” to select actions related to the archival or restoration of data records related to this .APR file.

## THE BROWSE MENU

The Browse Menu (or the browse macro list screen) lists each macro in the .APR identified at the top of the screen in alphabetical order by macro name. Use the scroll bar to move the list up or down. The number of commands found in each macro, any Function Key assigned to it, and Y/N as to whether you have added a note or memo for the macro is shown to the right of the macro name.

Document .APR Macros - browse macro list

Document ID: 000007    Name of .APR File: C:\aprdump\aussie\students\STUD.APR    Date records imported: 11/08/2005    Application system group: DOC

MAC ID	MAC#	MNAME	Cmds	F Key	Note	Memo
000007091	091	1998	3		N	N
000007096	096	1998 returndep	1		N	N
000007163	163	About	1		N	N
000007099	099	Account export	3		N	N
000007160	160	Ad hoc 5	5		N	N
000007072	072	ad hoc report 1	5		N	N
000007075	075	ad hoc report 2	5		N	N
000007076	076	ad hoc report 3	5		N	N
000007077	077	ad hoc report 4	5		N	N
000007105	105	add management	4		N	N
000007109	109	Add new applicant	10		N	N
000007021	021	Add School	1		N	N
000007103	103	additional	4		N	N
000007097	097	Addresses	3		N	N
000007143	143	Alreadyexists	3		N	N
000007018	018	Alumni details	1		N	N

Click on white box to see command summary for that step

Main Menu  
Setup Menu  
Report Menu

You may access one of the other menu screens by clicking the appropriate button.

You may view the individual command steps making up a macro by clicking on the WHITE BOX on the row with the macro name. For example, clicking the WHITE BOX for macro “1998” displays the screen below:

Lotus **SMARTSuite** Approach - [XDOCMACROS.APR:BrowseCmdsOneMacro]

File Edit View Create Browse Window Help

Browse Design New Record Find SetCurrentMacro

Menu \ WKS-FFMac \

### Document .APR Macros - browse commands for selected macro

Document ID: 000007 Name of .APR File: C:\aprdump\aussie\students\STUD.APR Date records imported: 11/08/2005 Application system group: DOC F KEY: 0

MACID: 000007091 MACNO: 091 MNAME: 1998 CMDS: 3 Macro Note

**Command steps in macro**

Stp#	Op code	OPSTR1	Note
001	Find	using stored find: Find 1998	N
002	Find	using stored find: Duplicates 1998	N
003	View	Switch to: Report Type	N

Click to view

Main Menu Setup Menu Report Menu Browse Menu Print this Macro

Record 1 Found 1 of 1 Page 1 Browse - BrowseCmdsOneMacro

For each command in the macro shown, you see the step number, command operation code, and the macro options string. The Note column (Y/N) indicates whether you have added a note to a step. If there are more than 12 steps in your macro, you can scroll down using a scroll bar that will appear at the right side of the list.

From the macro list screen shown above, you may access one of the other menu screens by clicking on the appropriate button at the bottom of the screen.

Click on the button “[Print This Macro](#)” if you desire a listing of just this macro. Note there are reports that list all macros.

Click on the button “[Macro Note](#)” at the upper right of the screen to display the screen below to enter either a short note (254 characters) or a memo (up to 64,000 characters) regarding the macro’s purpose or use.

Document .APR Macros - macro level note

Document ID: 000007    Name of .APR File: C:\aprdump\aussie\students\STUD.APR    Date records imported: 11/08/2005    Application system group: DOC

MACID: 00007091    MACNO: 091    MNAME: 1998    CMDS: 3    F KEY: 0

Macro level Note for:

MemoNote

Print    Page 1

Record 1    Found 1 of 1    Page 2    Browse - BrowseCmdsOneMacro

**Note:** Since these macro and command-level notes will be lost if you re-build the macro databases for your .APR file, you may want to put your notes in the .APR-level notes field until your project has reached completion.

**Tip:** Another method of adding notes within a macro is to define a variable field of type “text” and add SET commands to your macro to include your comments on what the macro is doing. This would provide a 254-character per comment text statement that would be included as a command step in the databases and in reports.

You may print the documentation regarding the menu by clicking the button “Print”.

Return to the prior screen by clicking the button “Page 1” at the bottom of the screen.

To add a note to the first step of your macro, click the red oval to the right of that row and you will see the next screen below. You can enter a note of up to 254 characters in the space provided.

Approach - [XDOLMACROS.APR:Cmd-Form]

File Edit View Create Browse Window Help

Browse Design New Record Find <Current Find/Sort>

Menu \ WKS-FFMac \

### Document .APR Macros - macro command step

DOCID	MACID	Macro Name	SEQNO	SysCode	STEPID
000007	000007091	1998	00000723	DOC	000007091001

Stp# Use  
001 M

Command Operands  
Find using stored find: Find 1998

Macro command step note

Browse Macro Cmds

Record 1 Found 3 of 2778 Browse Cmd-Form

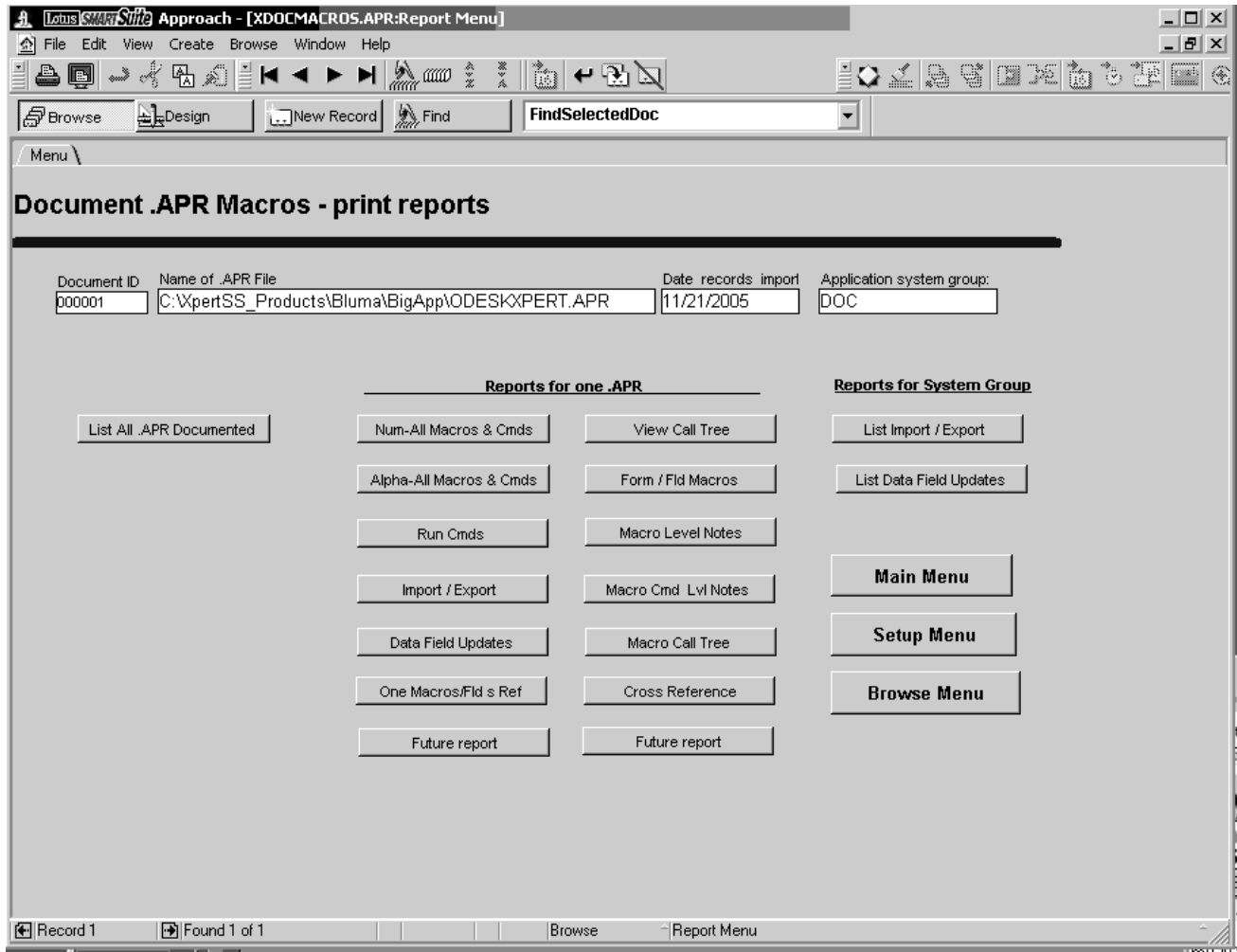
When you are finished, click the button “Browse Macro Cmds” to return to the prior screen where all the macro commands are displayed.

Return to the Setup Menu using the button provided.



## THE REPORT MENU

On the Setup Menu, in the “Actions after Import MENU” select the button “Report Menu” and the Report Menu screen appears as shown below.



Click the appropriate button for the report you wish to print. All reports are shown in Print Preview mode. There are buttons on each report to send the report to the default printer or to return to the Report Menu. With the exception of the “Macros / Fields Referenced Report” no further action is necessary.

The report options are as follows:

- ✓ Click the “List all APR Documented” button to see a report of all .APR files that have been processed.
- ✓ Click the “Num-All Macros & Cmds” button to see a report of all macros with their command details listed in macro number order. This is the order in which they are defined in your .APR file.
- ✓ Click the “Alpha-All Macros & Cmds” button to see a report of all macros with their command details listed in macro name order.
- ✓ Click the “Run Commands” button to see a report of all macros containing FIND or RUN commands and the details of those commands.
- ✓ Click the “Import/Export” button to see a report of all macros containing FIND, IMPORT or EXPORT commands and the details of those commands.

- ✓ Click the “Data Field Updates” button to see a report by field name of all the macro commands where the field is updated. The update formula is also listed.
- ✓ Click the “Macros/Flds Referenced” button to list the occurrence of a selected macro or data field name within the selected .APR file. Selecting this report displays the screen below:

Select the element type desired by clicking on the appropriate radio button, then select the name you wish to find from the dropdown list. For example you may wish to find the macro “Goto Menu” throughout the selected .APR. Click on the macro radio button and select Goto Menu in the field box, then click the “Print Report” button. To find a data field name select its full name (i.e. AR.ACCTNO for a dbf field), or the simple name (i.e. vAcctno if that is a variable name).

- ✓ Click the “View Call Tree” button to see a report showing the names of macros that are used to switch to a view listed in alphabetic order of the view name.
- ✓ Click the “Form/Fld Macros” button to see a report showing where macros are attached to view and object events, such as Switch in or Switch out of a view or Data Change of a field object, for example.
- ✓ Click the “Macro/Cmd Notes” button to see a report of the notes you have added for macros and/or commands.
- ✓ Click the “Macro Call Tree” button to see a report of macros called by other macros.
- ✓ Click the “Cross Reference” button to see a report of all data fields or macros referenced in another macro.
- ✓ The “Future Report” buttons are available for additional reports you may want to add to the system.

All of the reports discussed above show only one .APR file’s records. If you want to see data from multiple .APR files in a group, use the buttons at the right as follows:

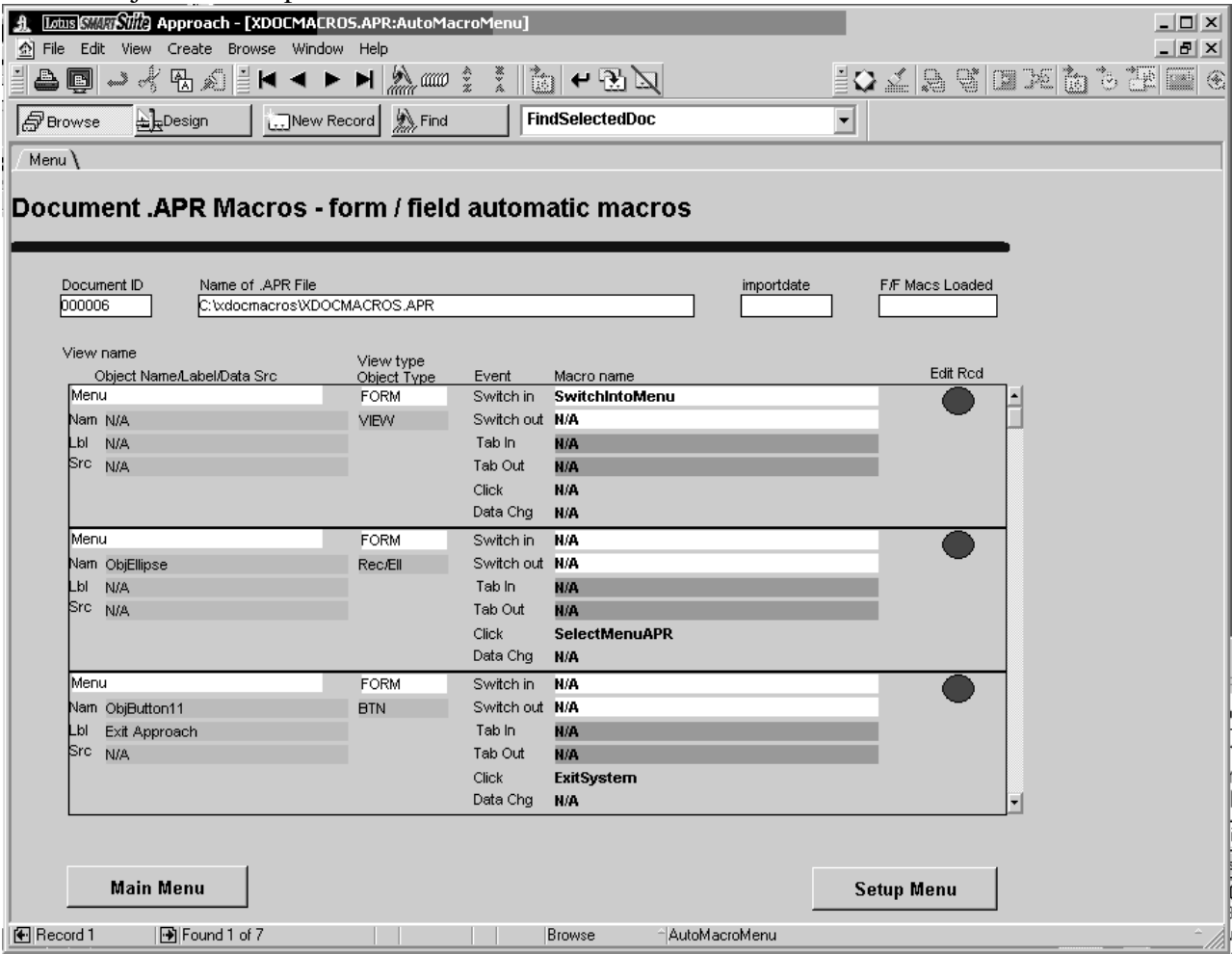
- ✓ Click the “List Import/Export” button to see a report of all macros containing IMPORT or EXPORT commands and the details of those commands.
- ✓ Click the “List Data Field Updates” button to see a report by field name of all the macro commands where the field is updated. The update formula is also listed.

We are not including sample reports in this document because they are self-explanatory.

Return to the Setup Menu using the button on the Reports Menu to continue to explore its usage.

# MACROS ATTACHED TO VIEWS/OBJECTS

The Form/Field Macros button on the Setup Menu shows you the location that macros are attached to views and objects. A sample screen is shown below:



This screen lists all the views and objects in the .APR file that have at least one macro attached. Data includes the following:

- View Name and Type
- Object Name, text label and source and Type for object-attached macros
- Macro Name and attachment Event

To view an individual view or object's details and add an optional note, click the red oval at the right side of the row to see the following screen:

Approach - [XDOC MACROS.APR:FFmacsForm]

File Edit View Create Browse Window Help

Browse Design New Record Find <Current Find/Sort>

Menu \ WKS-FFMac \

### Document .APR Macros - macros attached to form and field events

Document ID	Name of .APR File	Date records import	Application system group:
000006	C:\xdocmacros\XDOCMACROS.APR		DOC

ViewName	Menu	FORM	SwINMacro	N/A
			SwOUTMacro	N/A
ObjName	ObjButton11	BTN	TabInMacro	N/A
ObjLabel	Exit Approach		TabOutMacro	N/A
ObjDataSrc	N/A		ClickMacro	ExitSystem
			DataChgMacro	N/A

Comment

Form/Fld Macros

Record 3 Found 41 of 496 Browse -FFmacsForm

Return to the prior screen using the “Form/Fld Macros” button provided.

You can then use the button “Setup Menu” to go to the Setup Menu to continue this functional review.

## THE ARCHIVE MENU

The Archive Menu, or the archive, remove, and restore records screen, appears below:

The screenshot shows a window titled "Approach - [XDOCEMO.APR:ArchiveMenu]" with a menu bar (File, Edit, View, Create, Browse, Window, Help). The main area is titled "Document .APR Macros - archive, remove, and restore records". It contains several input fields and buttons. At the top, there are fields for Status (C), Name of .APR File (C:\database\utilbill\GENBILLS.APR), Date records import (11/25/2005), Nmr Macros (38), and Nmr Cmds (181). Below these are fields for Archive Date (11/25/2005), Store archive files (radio buttons for "with APR" and "with Documenter", with "with Documenter" selected), DOC (000005), and Archive Dir (C:\XDOCMACROS\HIST\DOC000005\). On the left, there are checkboxes for RFH and FFM. In the center, there is a vertical stack of buttons: "Archive & Restore", "Save DOC to ARCHIVE", "Reload Archived Files", "Reload Macro Lvl Notes", "Clear Files THIS APR", "Clear Files-ALL APR", and "Compress Files". To the right of this stack are two buttons: "Main Menu" and "Setup Menu". At the bottom, there is a status bar with "Record 1", "Found 1 of 6", and a "Browse" button.

You may return to other menus by clicking on the “Main Menu” or “Setup Menu” button.

You have an option when archiving records to store them within the folder where the XDOCMACROS.APR is located or store them with your APR file in its folder under appropriately named subfolders. The default is to not store them with your APR file.

The first set of buttons in the “Archive and Restore” area are as follows:

- ✓ Click the button: “Save Doc to Archive” to remove all the detail records for a selected .APR in order to keep the size of the macro databases small. The records for macros, macro commands, data fields updated, and macros attached to views/controls will be exported to work files. These files are then copied either to a history subdirectory (\HIST) under the folder where the XDOCMACROS program is located or to a history subdirectory within the directory of the selected .APR file. This is controlled by your selection of the archiving option in the “SETTING UP YOUR SYSTEM FOR USE” section of this document, or by the radio buttons at the top of the form. Note that the maclink2 record containing the APR path is not exported. Its status is changed to H for history but is kept in the maclink2 database.

- ✓ Click the button “Reload Archived Files” to reverse the operation above.
- ✓ Click the button “Reload Macro Lvl Notes” to just restore macro notes and memos from a previously archived copy of the APR’s content.

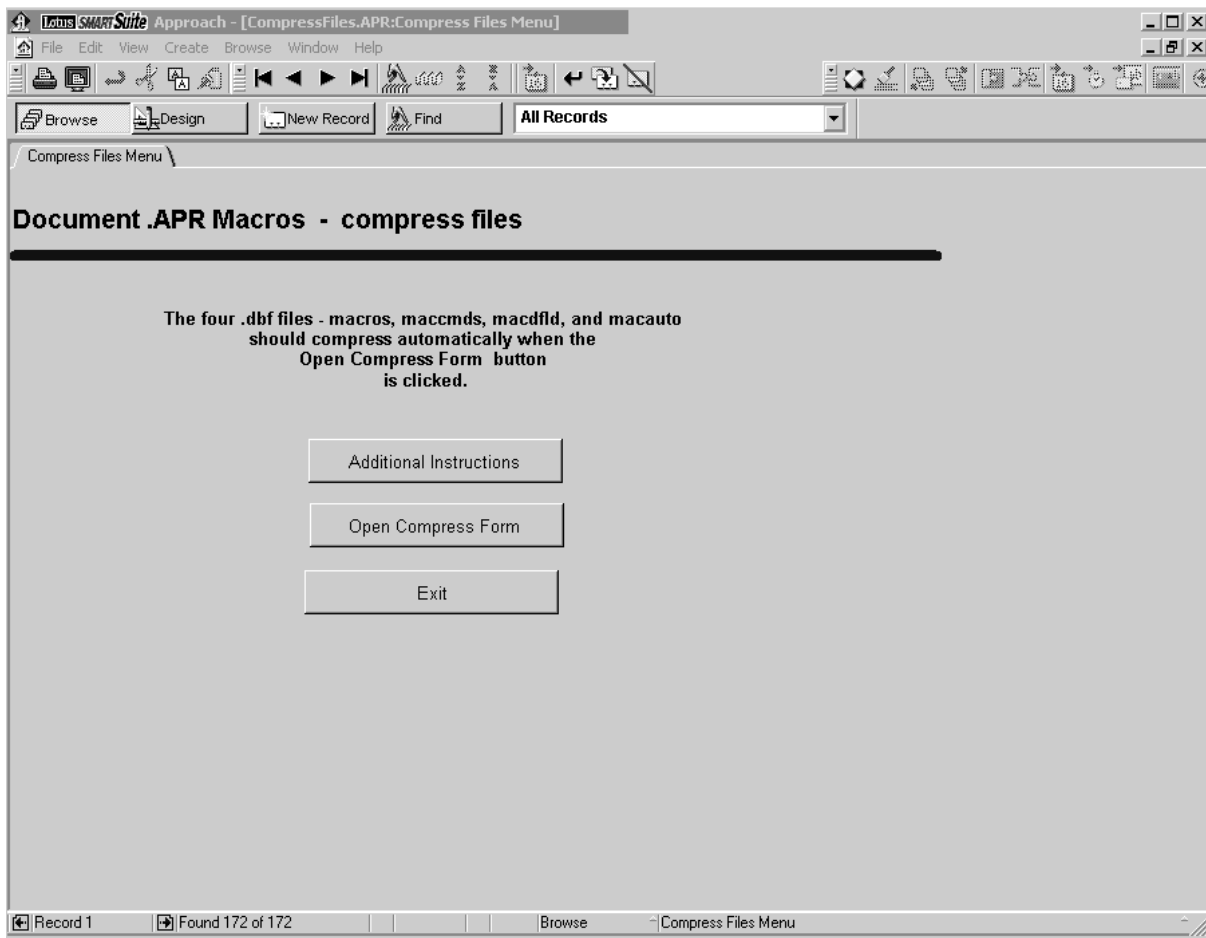
The second set of buttons remove records but do not archive them and provide a way to compress the databases used by the XDOCMACROS.APR program:

- ✓ Click the button “Clear Files This APR” to remove the records described above. Note this step does not archive the records. Once deleted, they will have to be re-imported using the setup menu. All notes you may have entered are deleted.
- ✓ Click the button “Clear Files - ALL APR” permanently removes ALL data records for all APR files and allows you to return to the initial empty state of the macro databases. All notes you may have entered are deleted. You may want to compress the databases used in this program after this step.
- ✓ Click the button “Compress Files” will remove all the deleted records from the databases used by XDOCMACROS.APR. It accomplishes this by running the CompressFiles.APR program.

Note: You can also do this manually. Compress is an option under the File menu, User setup option, Approach Preferences on the Database page of this dialog. You compress databases by selecting a name, click the Compress button, select another name, repeat the process, then click OK and the compression occurs at that point.

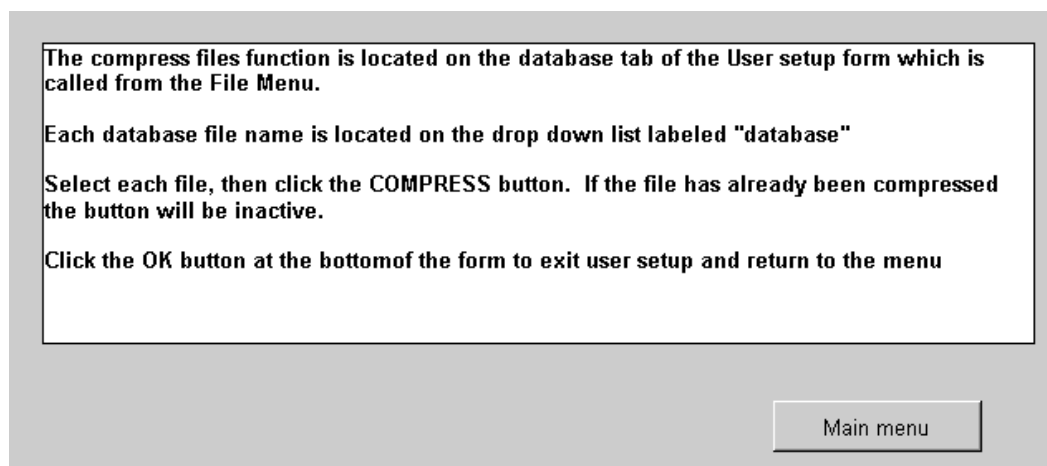
## **The CompressFiles.APR**

The CompressFiles.APR program is run from the XDOCMACROS.APR when you click the button to “Compress Files” on the Archive Menu. The Menu is shown below.



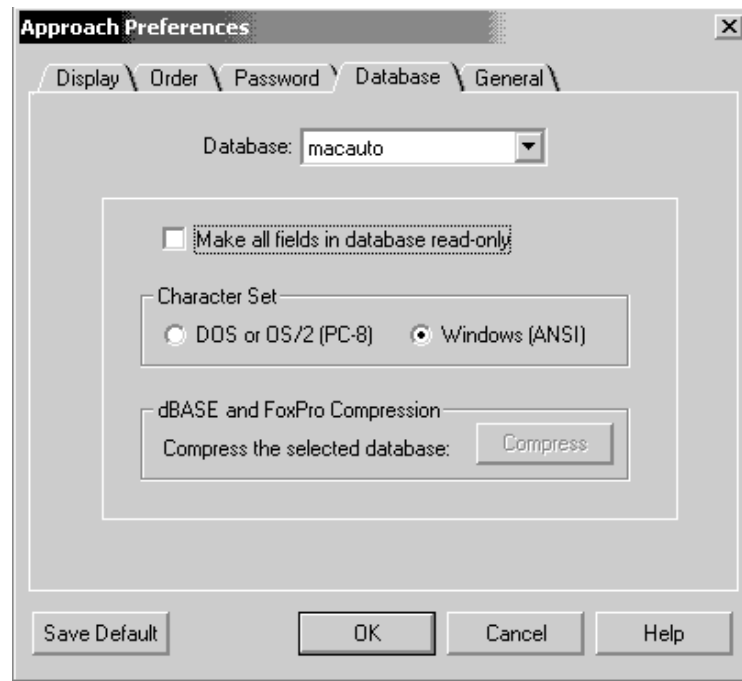
There are three buttons on this menu:

- ✓ Click the button “Additional Instructions” for information about the file compression process.



- ✓ Click the button “Open Compress Form” to perform the process described above to remove all the deleted records from the databases used by XDOCMACROS.APR. The Approach Preferences dialog is displayed for you as shown below. Note that the files are not actually compressed until you click the “OK” button, which will also return you to the menu form.





- ✓ After finishing the compression process, click the button “Exit” to close the CompressFiles.APR program.