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Overview

Thank you for your interest in our Find-Member Utility. Please read this user-guide carefully. It will help you to extract, upload, install and run the utility on your AS400. All this can be accomplished in less than 30 minutes.

The current version of the utility is 2.0.

What the utility can do

FNDMBR lets you search for specific member(s) across files and libraries. The standard AS400 wildcard characters are supported when you start a search; in other words, you can search for a specific member, supply a generic name or search for *ALL members. The same rule applies for the files you search through. Libraries included in the search can be your library-list (*LIBL), all user libraries (*ALLUSR), your current library or a particular library name.

You can either print the found member names or have them come up in a sub-file. In the sub-file, you can browse, edit, print, copy, rename or delete the members. You can also compare them with the IBM CMPPFM command or find a particular string by searching across them.

Though intended as a tool to help you manage your source-file members, the utility can be used on all AS400 file-members, which means you can use it to track members in physical files (PF) too, not just in source-files (PF-SRC). Some IBM supplied functions that can be called from the utility are not supported if you load physical file members. For instance, you can't edit them with SEU.

Contact Information and Support

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Please contact us at support@famtech.ca if you have questions regarding this product. We will provide the kind of support that is common for shareware-products. We will respond to your e-mails and do our best to find a working solution to your question or problem. But we cannot guarantee a fixed response-time or ensure you that we have a solution for any problem (including bugs) that you may report.

(c,1999-2003) Famtech Information Services Ltd.

Installation

Download

The latest version of FNDMBR can be downloaded at
<http://www.famtech.ca/downloads/fndmbr.zip>

Extract

After downloading is complete, open FNDMBR.ZIP. You need WinZip or a compatible utility to do that. In the zip-file you will find these 3 files:

- **FNDMBRSF.FILE** ; this is an AS400 save-file that will be uploaded to your AS400.
- **User-Guide.pdf** ; this document.
- **Readme.txt** ; a shrink-wrapped guide to install the utility and get started. It is provided for sites that do not have Acrobat Reader installed.

To extract the files in WinZip click on the **EXTRACT**-button. Select **ALL FILES** and specify a directory of your choice, into which the files will be extracted. Click **EXTRACT**.

When extracting has been completed, you should see the 3 files in the directory you indicated. At this point, you are ready to upload the save-file to your AS400.

Upload

To upload, you must establish an FTP-connection from the PC you are working on to your AS400. Both your PC and your AS400 must be on a TCP-IP network in order to enable that connection. Using FTP, you will upload the save-file to your AS400.

On your PC go to a DOS-prompt. Type in the following commands: (Note: Replace all parameters in the example below with your actual system values. In the examples, these parameters start with My... So instead of MyAS400, enter the name of your AS400; instead of C:\MyDirectory, enter the name of the directory where you actually extracted the files, etc.)

```
C:\>FTP MyAS400
```

You will be prompted to sign on. Enter your User-ID and password when prompted. You will then get the FTP-prompt (>). Once you see the FTP-prompt, continue by entering the commands below:

```
> quote site namefmt 1
> lcd C:\MyDirectory
> cd MyLibrary.lib
> binary
> put FNDMBRSF.FILE FNDMBRSF.SAVF
> bye
```

✧ If your shop uses another product, not FTP, to upload files from a PC to an AS400, you can use this product, but you must make sure the file is uploaded as a save-file.

Installation

First you should ensure that the file was uploaded correctly. As you can see from the FTP-script, it was uploaded as file FNDMBRSF to the library you entered in the “CD”-command. To verify the upload, enter the following command on an AS400 command-line:

DSPSAVF FILE(MYLIBRARY/FNDMBRSF)

You should get a display of the contents of the save-file. Note: If you don't, then don't continue from this point, but go back and fix the error. Most likely, your FTP-transfer didn't run normally. Important is that you use 'Binary' and the '.SAVF' extension, as indicated.

When the save-file is uploaded correctly, you are ready to install the product on the AS400. First, restore all objects using the standard AS400 commands. Enter this command on an AS400 command-line:

**RSTLIB SAVLIB(FNDMBR) DEV(*SAVF)
SAVF(MYLIBRARY/FNDMBRSF) RSTLIB(MYLIBRARY)**

Again, please substitute MYLIBRARY with the name of the actual library you use.

Make sure the system restores all 21 objects contained in the save-file before you continue. At this point, you are ready to run the installation program. First, add the library you restored the objects into to your library list (MYLIBRARY in the example). Then enter this command on an AS400 command-line:

CALL PGM(FNDMBRINS) PARM(MYLIBRARY MYNEWLIBRARY)

You must supply 2 library-names as parameters to this program. The first one tells the program where to find the restored objects. The second one tells it where to install the utility. Again, please substitute the names according to your environment.

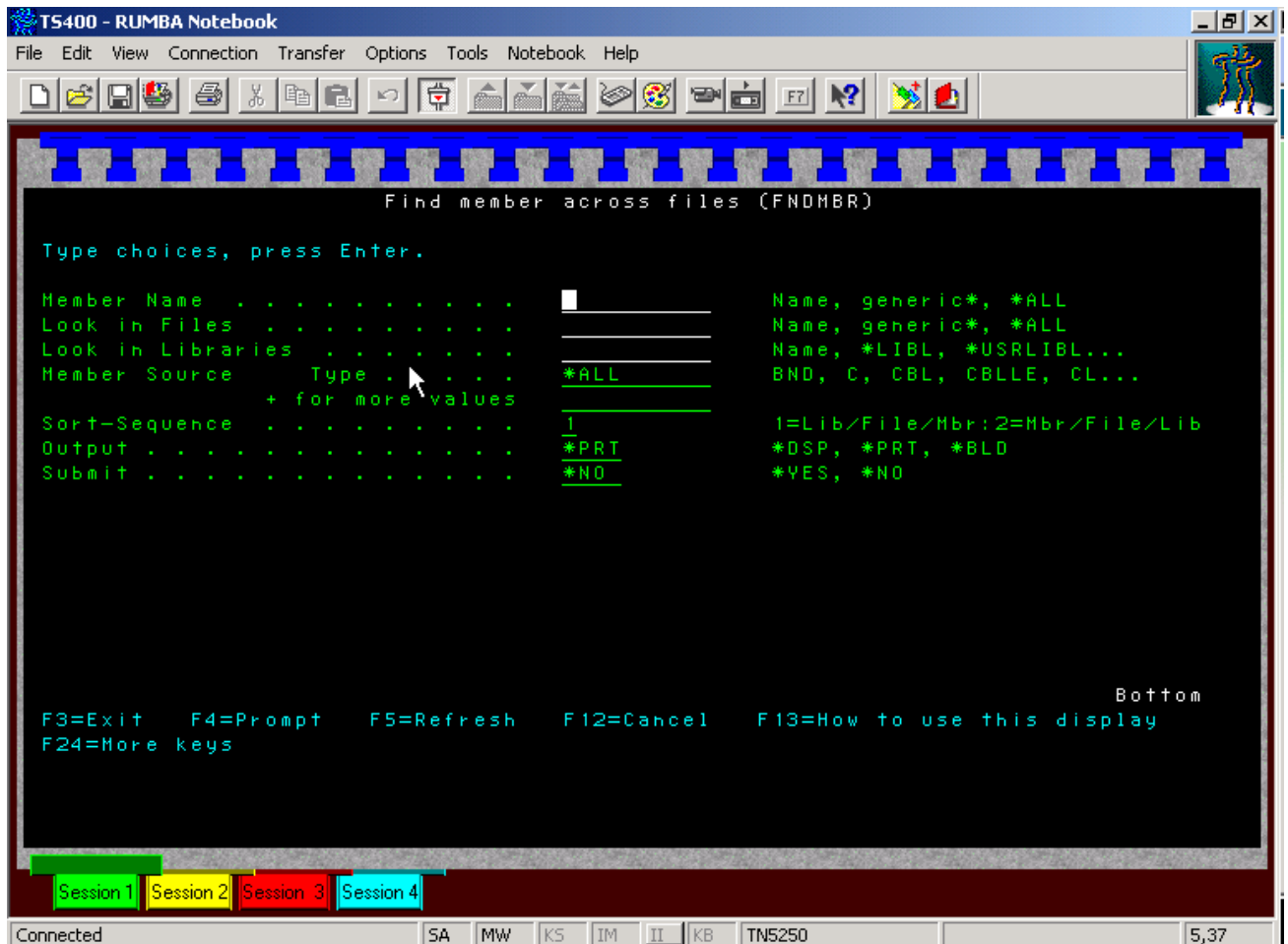
✂ Both libraries can be the same.

That's it. You're ready to roll !

Operation

To run the utility, make sure its library (where you installed it into) is in your library-list. Then, on a command line, type FNDMBR and hit F4. The screen below will show:

FNDMBR command



Member Name

This is to define what members should be retrieved in the search. Enter a name, a generic name like XYZ* or *ALL. Generic names are supported.

For instance, searching for members XYZ\$* in QRPGRSRC in *ALLUSR will retrieve all RPG-programs that start with XYZ\$ and are in a file named QRPGRSRC across the entire system (*ALLUSR works like it does on standard AS400 commands).

File Name

This is to define across what files the search should be conducted. Again, enter a name, a generic name or *ALL.

Library Name

This is to define across what libraries the search should be conducted. Enter a name, or one of the following AS400 keywords:

- *LIBL
- *USRLIBL
- *CURLIB
- *ALL
- *ALLUSR

Generic names are not supported here.

Member Source Type

Enter *ALL or up to 10 different source types to be included. This allows you to filter on the types you are actually interested in, like RPG for RPG-programs. To include physical file members, enter source-type *NONE.

Sort-Sequence

Enter 1 to sort the results by library, file and member; or enter 2 to sort by member, file and library. You can always change the sort-sequence when the members have been loaded into the sub-file.

Output

- *DSP – Scans the libraries indicated, then displays all retrieved files and members in a subfile, from where you can work with them. This is meant to be used on the fly, if you have to work with a few libraries. If you select lots (potentially hundreds) of libraries with the *ALLUSR parameter, scanning and extracting all data can take hours. In this case, use *BLD (see below). For obvious reasons, when you select *DSP, the job cannot be submitted to batch.
- *PRT: All files and members according to your selection will be printed.
- *BLD: The physical file FNDMBR - member FNDMBR - will be populated with the results of the scan of the indicated libraries. The results can later be displayed in a subfile via the DSPMBR command (see below). It will also create a spoolfile listing the files/members extracted. Use this option when you have lots of libraries to scan. You could also run the command every night through a scheduling software like ROBOT (TM).

When viewing the members via the DSPMBR command, what you see may not be 100% current. The contents of FNDMBR stay the same until you run the FNDMBR command with output = *BLD next time. Operations on members such as copy, rename or delete will be reflected if the operations is executed from

within the FNDMBR-utility, but NOT if it's executed from any other environment, such as SEU or Websphere Development Studio.

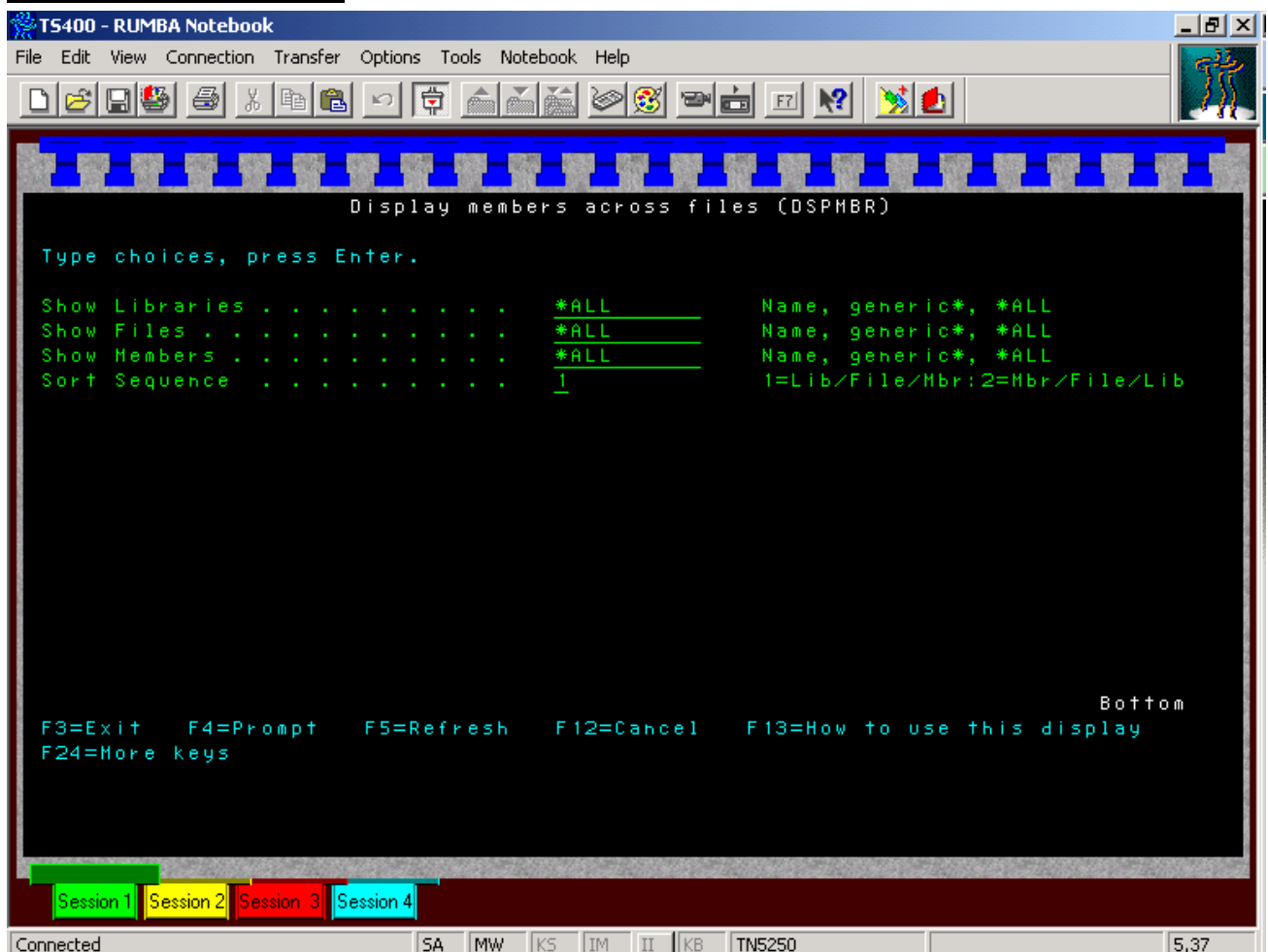
*BLD and *DSP/*PRT work side by side. If you run FNDMBR with option *DSP, it will not affect any content extracted previously by the *BLD option. Content extracted with *BLD is only replaced if the command is run again with the *BLD option.

Submit

Enter *YES to submit the job to batch or *NO to run it online. *YES will not be accepted if the Output value has been set to *DSP.

- ✂ If you execute the command in one of your CL-programs and the CL-program already runs in batch, you should probably set Submit to *NO. If you set it to *YES in this situation, the submitted job will submit another job. This is certainly valid but the sequence in which the jobs run could be different from what you expect.

DSPMBR command



Use this command to view all files and members extracted with the *BLD option in FNDMBR command (see above). You can specify filters at the start in the parameters provided by the command, but it's probably better to start the program using the *ALL-defaults for libraries, files and members and set filters later on the screen. As no scanning or extraction takes place at this point, program execution is fast and setting or removing filters online does not come with a heavy performance-penalty.

Printed Output

Below is an example of a page produced by FNDMBR:

```

9/09/01                               FNDMBR : Search Results          PAGE      1
15:39:24                               Selected Sort Sequence:         Library/File/Member
Selected Member Name:                   Q*
Looked in Files:                         Q*
Looked in Libraries:                     QSYS
Selected Source-Types:                   *NONE
    
```

Member Name	File Name	Library	Records	Src-Type	Last changed	Description
QACJINFO	QACJINFO	QSYS	36	*NONE	1/05/03 04:42:02	
QADBIFLD	QADBIFLD	QSYS	235944	*NONE	1/09/09 15:18:24	Cross reference physical file
QADBXRDBD	QADBXRDBD	QSYS	1	*NONE	1/05/03 05:15:19	RDB Directory physical file
QFMADIR	QAFSDDS	QSYS	8	*NONE	1/05/03 04:23:20	Member added by copy file
QFMADIRP	QAFSDDS	QSYS	9	*NONE	1/05/03 04:23:20	Member added by copy file
QAFSSETU	QAFSSETU	QSYS	19	*NONE	1/05/03 04:23:20	Member added by copy file
QAIMG01	QAIMG01	QSYS	8	*NONE	1/05/03 04:42:02	PCL 300-dpi printer
QAIMG02	QAIMG02	QSYS	12	*NONE	1/05/03 04:42:02	PCL 600-dpi printer

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Display

Below is a screenshot of members retrieved and loaded into a sub-file:

```

TS400 - RUMBA Notebook
File Edit View Connection Transfer Options Tools Notebook Help

MFREPP                               Work with retrieved members on TS4000          9/02/2001
Program: FNDMBR                               10:35:25

Type options, press Enter.                    Select Member. . . . . *ALL
2=Edit   3=Copy   4=Delete   5=Display        Select File. . . . . EDI*
6=Print  7=Rename 9=Compare F=Find           Select Library. . . . . *ALL

? Member   File      Library   Records   Member     Last changed on
  Name     Name       Name      in Member Src-Type   Date        Time
- - - - -
RESP2     EDI2       FNDHBR    1          *NONE     2001/09/02 10:32:51
RESP3     EDI        FNDHBR    1          *NONE     2001/09/02 10:32:36
RESP3     EDI_TEMP   QTEMP     1          *NONE     2001/09/02 10:34:37
RESP3RNM  EDI3       FNDHBR    1          *NONE     2001/09/02 10:32:58
RESP4     EDI        FNDHBR    1          *NONE     2001/09/02 10:32:36
RESP4     EDI_TEMP   QTEMP     1          *NONE     2001/09/02 10:34:37
RESP4RNM  EDI4       FNDHBR    1          *NONE     2001/09/02 10:33:02
RESP5     EDI        FNDHBR    1          *NONE     2001/09/02 10:32:36
RESP5     EDI_TEMP   QTEMP     1          *NONE     2001/09/02 10:34:38
RESP6     EDI        FNDHBR    1          *NONE     2001/09/02 10:32:36
RESP6     EDI_TEMP   QTEMP     1          *NONE     2001/09/02 10:34:38

Bottom
F1=Help F3=Exit F5=Rfr F11=Fold F12=Cancel F13=Repeat F16=Sort F21=Ccmd F22=Lic
    
```

The members are listed in the indicated sort-sequence. Use the Page-Up and Page-Down keys to scroll through the sub-file. Options and available function-keys are explained below. On the top right, you can filter out unwanted members by refining the selection masks.

- ✧ You can only filter out members that were included in the original selection when you started the utility. You cannot add members into the sub-file that were not included in the scan, ie: that do not fall into the search-criteria you entered.

Options on members

Enter the number as indicated in the options-column to the left of the member-name to select the member for the operation.

Edit

This will bring up the SEU-Editor if the member is a source-file, or the STRDFU utility, if it is a physical file member.

Copy

Allows you to copy the selected member(s) to another file and/or library. You enter the new member-name, file-name and library-name on a separate screen that will pop up.

After a successful copy, the original member(s) will be flagged with “*** COPIED ***”.

Delete

Lets you delete the member(s). After a successful deletion, the member(s) will be flagged with “*** DELETED ***”.

- ✧ There is no un-delete command on the AS400 !

Display

This will bring up the SEU-Editor in display-mode if the member is a source-file, or display the member with the DSPPFM-command if it is a physical file member.

Print

This will print the member if it is a source-file. Not supported for physical file members.

Rename

Allows you to rename the selected member(s). You enter the new member-name on a separate screen that will pop up.

After a successful rename, the member(s) will be flagged with “*** RENAMED ***”.

Compare

This starts the IBM CMPPFM command which lets you compare the selected member with another one.

Find

You can search for a particular character-string across one, more, or all member currently loaded in the sub-file. If you enter the Find-option, you will be prompted to supply:

- The character-string the member(s) should be scanned for.
- The action to be performed on the member(s) if the character-string is contained in them. Possible actions are *EDIT (edit), *COPY (copy), *DLT (delete), *DSP (display), *PRT (print), and *RNM (rename).

Please enter the required details and hit ENTER. The selected member(s) will be scanned, and if the character-string entered is found in them, they will be subjected to the requested action. For copies and renames, you will be prompted to enter the new names in a pop-up-screen. For deletions, you will be prompted to confirm.

Functions

Use the function-keys as explained below:

F1 = Help

This will bring up a help-window that will point you to this document for help.

F3 = Exit

Exit the program.

F5 = Refresh

Refreshes the contents of the sub-file. You would do this normally after one or more copy, delete, or rename-operations to get the latest picture.

F11 = Fold

This toggles the sub-file between one and two lines.

F12 = Cancel

Exit the program.

F13 = Repeat

Repeats the option entered on the current line for every member below.

F16 = Sort

Lets you change the current sort-sequence. In the window that pops up after you hit F16, you can enter

- 1 to sort by library, file and member.
- 2 to sort by member, file and library.

F21 = Command

Gives you access to the AS400 command-line.

F22 = License

Lets you enter the license-number and name after you have registered the product. You enter the name when you register the product. It should be the name the product is registered to, usually your company-name.

We will e-mail you both the name (echo what you entered) and the license number once you have registered successfully. You can then enter the values with F22.

- ✂ Enter the number exactly as shown in the e-mail; do not add leading or trailing zeros.
- ✂ Enter the name exactly as shown in the e-mail; it is case-sensitive !

You can press ENTER on the registration popup-window to verify your input. If and when it is correct, you can press F6 to accept it and store it in the database. Once a valid number has been accepted, the window changes to display-only, you cannot change the registration information anymore (and you don't have to).

Service Procedures

FNDMBR has been written 100% in ILE. As a by-product, we created several procedures and functions that your programs can call. In this way, you can incorporate some of the functionality of the utility into your own programs.

You get detailed and documented prototypes (in RPG-format) via e-mail when you register the product. Here is just a broad outline of what the procedures will do when called:

Operations on Members

CPYRNMSCRS

Lets you pass an array of members for a mass-copy and/or rename operation.

FNDMBRWRPS

Lets you find a character-string across an array of member-, file- and library-names and mark the members that contain the character-string.

RTVMBRDSCS

A 'light' version of the IBM API. Returns source-type, last change date/time, number of records and description for a passed-in member.

Text Operations

TXTCENTER#

Centers text.

TXTEXTTRACT#

Extracts character(s) from a passed-in string.

TXTMATCH#

Determines a text-match.

Date Operations

TSTPCRT#

Creates a time-stamp for a passed-in date and time.

TSTPRTVDT#

Returns the date of a passed-in timestamp.

TSTPRTVTM#

Returns the time of a passed-in timestamp.

Miscellaneous

WKINYR#

Returns the week number in the year for a passed-in date.