

V I S T A

**File Manager 22.2
Installation Guide**
March 2013



Fileman/
Lab
Agile
Project



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Revision History

Date	Description	Language	Authors
March 2013	Version 22.2 release	English (US)	Sam Habel based on the previous installation guide provided by Veterans Affairs.

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Orientation

This manual uses VA conventions for displaying mockups of sensitive data in illustrations and screen captures. The first three digits (prefix) of any social security numbers (SSN) will begin with either "000" or "666." Patient and user names will be formatted as FMPATIENT,[N] and FMUSER,[N] respectively, where "N" represents the first name as a number spelled out.

Screen captures and computer source code are shown in a non-proportional font and enclosed within a box. The user's responses to online prompts will be boldface.

In some cases, the authors describe how the user should respond, rather than citing a specific response. In these cases, text arrows (e.g. '<-----') show where the described response should be entered.

Introduction

This guide provides instructions for installing Fileman version 22.2. Fileman is designed to be used either with the Kernel or as a stand-alone application running under a variety of implementations of American National Standards Institute (ANSI) M. Installation instructions are provided for sites running Kernel and for stand-alone sites. Fileman version 22.2 is not integrated with the installation of Kernel. Refer to Kernel's Installation Guide for instructions on installing Kernel.

Fileman version 22.2 uses features that are in the 1995 M Standard. Proceed with this installation only if you are running an M operating system that supports the 1995 M Standard.

Fileman consists of 882 M routines; along with the necessary globals, occupy approximately 7.1 megabytes of disk storage space. These routines, as they are run, set up all the M globals that Fileman will require.

Preliminary Considerations

Funcions required to perform the installation are listed below. Instructions for performing these functions are provided in vendor-supplied operating system manuals as well as VISTA publications. DSM for OpenVMS instructions are provided in the Decentralized Hospital Computer Program (DHCP) VAX DSM Systems Guide; and MSM-DOS instructions are provided in the 486 Cookbook and Micronetics Standard MUMPS (MSM) System Managers Guide. Sites running ALPHA systems require knowledge of DSM. Caché/OpenM instructions are provided in the Caché System Manager Guide. Sites running GT.M are referred to the GT.M Administration and Operations Guide for Unix or VMS.

You will need to know how to:

- Log onto the system.

- Shut down and bring up the M configuration or boot the system.
- Delete routines.
- Restore routines from the distribution medium to your disk drive.
- Run a system status and terminate a process.
- Copy routines.
- Back up the system; enable/ disable journaling.

Changes in the MUMPS OPERATING SYSTEM File

Beginning with version 21.0, Fileman no longer supports the following operating systems since they do not support the 1995 M standard:

CCSM	MICROMUMPS (UC DAVIS)
DATA GENERAL	TANDEM
DSM(V3 & V4)	UNIX MUMPS(PLUS 5)
HARRIS	VAX DSM(V3)
LMS-1(IBM SERIES 1)	VAX DSM(V4 & V5)
M/11	VISTA(AOS)
M/SQL-PDP	

Note: If you are running under any of these operating systems, you should *not* proceed with the installation of Fileman version 22.2. If you upgrade from a non-supported M operating system to a system that supports the 1995 M Standard environment, kill ^DD("OS") in order to proceed with the installation.

In Fileman version 21.0, the VAX DSM(V6) entry was renamed to DSM for OpenVMS and the entry M/SQL-VAX was deleted.

In Fileman version 22.0, the M/SQL entry in the MUMPS OPERATING

SYSTEM file (#.7) is renamed CACHE/OpenM. Caché/OpenM sites should select this entry.

Beginning with Fileman version 22.2, Fileman does not rely on the %ZOSF nodes belonging to the Kernel to perform OS specific functions. If you have customized the %ZOSF nodes for any reason, you can apply your customizations to the Mumps OS File instead for the appropriate Operating System.

Installation Summary

1. Backup your database
2. Stop all VISTA tasks running in the background as well as Taskman. Make sure there are no users on the system.
3. Put the system out of service so nobody can log on.
4. Delete all DI*, DM*, and DD* routines. If there are local (DIZ*, DMZ*, DDZ*) routines, you may preserve them if you wish.
5. Load the Fileman RSA file containing the routines
6. Run ^DINTEG to assure integrity.
7. Move DIDT to %DT, DIDTC to %DTC, and DIRCR to %RCR
8. Run, in succession, routines DINIT, DIINIT, and DMLAINIT
9. Allow users to log back into the system
10. Restart Taskman and background tasks

The actual installation time (Step 8) for Fileman 22.2 is between 5 to 30 seconds.

Preparation Before Installation on your Production System

Back up your system as a safeguard before the installation.

If you still journal globals selectively, journal as follows:

Recommended: ^DD, ^DI, ^DIBT, ^DIC, ^DIE, ^DIPT, ^DIST, ^DIZ
Do NOT Journal: ^DISV

It's recommended that you install and try Fileman 22.2 on a test system that is a copy of your production system if you have one available. This is especially recommended if you use unpublished entry points or deprecated functionality in Fileman, as you may find out that these features are no longer supported. In general, Fileman 22.2 is almost 100% backward compatible as long as documented public entry points are used. The only change affecting backwards compatibility is the re-organization of the Language file, which isn't expected to cause any problems for existing code as all old global nodes have values.

Installation on Caché/Ensemble with Kernel Installed

You should have backed-up your system already.

This installation requires a pre-existing Kernel version 8.0.

Routine Mapping for Cache

Before you start, you need to remember that Cache maps % routines to the %SYS namespace. Using Cache tools (not described in this manual), you need to map %DT, %DTC, and %RCR to the namespace where Fileman will be installed. Remember that the Kernel needs additional mappings not described here. If you are installing into an existing VISTA environment, then you do not need to perform this step as it has already been performed.

Stop All Background Filers, such as those for MailMan, OE/RR, Integrated Billing, and HL7

Since there is no menu option to shut down the OE/RR background filer (routine ORTSK), this job will need to be stopped via the appropriate M operating system utility. Make sure to run ^%SS or an equivalent utility to ensure that all jobs have stopped. Do not proceed if all jobs have not been stopped yet. A last resort, which you may use if there is no way to shut down the job, is to use the command 'WRITE \$ZU(4,{PID})', where {PID} is the process number you obtain from ^%SS.

Pre-Install Taskman Procedures

Shut down Taskman. Make sure you shut down active submanagers.

```
>D STOP^ZTMKU
```

```
Are you sure you want to stop TaskMan? NO// Y <ENTER>  
Shutting down TaskMan.
```

```
Should active submanagers shut down after finishing their
```

```

current tasks? NO// Y <ENTER>
Okay!

Should active jobs be signaled to stop? NO// Y <ENTER>

Signaling active Tasks to STOP.
Done.

```

DO NOT PROCEED AT THIS POINT UNLESS YOU ARE SURE THAT THERE ARE NO VISTA/RPMS RELATED TASKS RUNNING EXCEPT YOUR OWN. RUN %SS TO CONFIRM.

Inhibit Logons for Each Volume Set

You may also use the operating system (OS) command to prevent logons. Using the OS command will not cause a problem and will allow you to work within the menu system as needed during the installation. Caché/OpenM sites can stop LAT and TELNET services.

Use Fileman to edit the VOLUME SET file (#14.5). Replace **VAH** below with your active volume set. If unsure, you can inhibit log-ins for all volume sets in the file.

```

>D Q^DI
Fileman 22.0
Select OPTION:  ENTER OR EDIT FILE ENTRIES
INPUT TO WHAT FILE:  VOLUME SET// <ENTER>
EDIT WHICH FIELD:  ALL// INHIBIT LOGONS ? <ENTER>
THEN EDIT FIELD:  <ENTER>
Select VOLUME SET:  VAH <ENTER>
INHIBIT LOGONS?:  NO// YES <ENTER>

```

Delete Old Fileman Routines

It is recommended that you delete the old Fileman routines just before loading in the new ones to ensure that the only routines in Fileman's namespace are those coming in with version 22.2.

```

>D ^%ZTRDEL

```

```
ROUTINE DELETE

All Routines? No => No <ENTER>

Routine: DI*<ENTER>
Routine: 'DIZ*<ENTER>
Routine: DM*<ENTER>
Routine: 'DMZ*<ENTER>
Routine: DD*<ENTER>
Routine: 'DDZ*<ENTER>
```

Read the Routines into System

Use your M system's routine loading utility to load the Fileman version 22.2 routines from the distribution file (VA-FILEMAN-22P2.RSA).

Caché/OpenM sites: >D ^%RI

```
>D ^%RI

Input routines from Sequential
Device: /tmp/VA-FILEMAN-22P2.RSA
Parameters? "R" => <ENTER>

      ***** W A R N I N G *****

File Header: Fileman 22.2
Date Stamp: GT.M 13-DEC-2012 15:41:42

This file may not be a %RO output file.
Override and use this File with %RI? No => Yes <ENTER>
%RI has detected a routine written with UNKNOWN mode.
  0) Cache
  1) DSM-11
  2) DTM
  3) Ipsum
  4) Cobra
  5) DSM-VMS
  6) DSM-J
  7) DTM-J
  8) MSM
  9) BASIC
 10) U2/M
```

```

11) MVBASIC

Please enter a number from the above list: 0 <ENTER>
File written by OLD GT.M 13-DEC-2012 15:41:42 with description:
Fileman 22.2

( All Select Enter List Quit )

Routine Input Option: All Routines <ENTER>

If a selected routine has the same name as one already on file,
shall it replace the one on file? No => Yes <ENTER>
Recompile? Yes => <ENTER>
Display Syntax Errors? Yes => <ENTER>

```

Run the Integrity Routine

Run DINTEG to check the integrity of the routines you have loaded. DINTEG detects any discrepancies between your copy of Fileman and the one distributed by the developers.

```

>D ^DINTEG

Checksum routine created on 3121213.153844 by KERNEL V7.3

DDBR      ok
DDBR0     ok
<rest of the output elided>

```

Rename % Routines

Save DIDT as %DT, DIDTC as %DTC, and DIRCR as %RCR.

```

>ZL DIDT ZS %DT
>ZL DIDTC ZS %DTC
>ZL DIRCR ZS %RCR

```

Initialize Fileman; Install Menu Options, Security Keys, and Remote Procedures; Install the Expanded Language File

```

>D ^DINIT, ^DIINIT, ^DMLAINIT

```

The following is an example of the initialization process done at the Development Environment. For the prompts for Site Name and Number, you should accept the defaults unless you are planning to rename your site or change its station number. The first time you run DINIT for V22.2, you will not be asked whether to change the MUMPS OPERATING SYSTEM file; the file will be changed automatically. In subsequent times when you run DINIT, you will be given that choice.

```
>D ^DINIT,^DIINIT,^DMLAINIT
Fileman V.22.2

Initialize Fileman now? NO//Y <ENTER>
SITE NAME: TEST SITE// <ENTER> <----- Enter your site name here
SITE NUMBER: 11310// <ENTER> <----- Enter your site number here
.....
Now loading MUMPS Operating System File
Do you want to change the MUMPS OPERATING SYSTEM File? NO//Y
<ENTER>
Now loading DIALOG and LANGUAGE
Files.....

TYPE OF MUMPS SYSTEM YOU ARE USING: CACHE/OpenM// ? <ENTER>
  Answer with MUMPS OPERATING SYSTEM NAME
  Choose from:
  CACHE/OpenM
  DSM for OpenVMS
  DTM-PC
  GT.M(UNIX)
  GT.M(VAX)
  MSM
  OTHER

TYPE OF MUMPS SYSTEM YOU ARE USING: CACHE/OpenM// <ENTER>
Now loading other FileMan files--please
wait.....
```

```

.....
.....
.....
.....

The following files have been installed:
.11     INDEX
.2      DESTINATION
.31     KEY
.4      PRINT TEMPLATE
.401    SORT TEMPLATE
.402    INPUT TEMPLATE
.403    FORM
.404    BLOCK
.44     FOREIGN FORMAT
.46     IMPORT TEMPLATE
.5      FUNCTION
.6      DD AUDIT
.7      MUMPS OPERATING SYSTEM
.81     DATA TYPE
.83     COMPILED ROUTINE
.84     DIALOG
.85     LANGUAGE
1       FILE
1.1     AUDIT
1.11    ARCHIVAL ACTIVITY
1.12    FILEGRAM HISTORY
1.13    FILEGRAM ERROR LOG
1.2     ALTERNATE EDITOR
1.521   SQLI_SCHEMA
1.52101 SQLI_KEY_WORD
1.5211  SQLI_DATA_TYPE
1.5212  SQLI_DOMAIN
1.5213  SQLI_KEY_FORMAT
1.5214  SQLI_OUTPUT_FORMAT
1.5215  SQLI_TABLE
1.5216  SQLI_TABLE_ELEMENT
1.5217  SQLI_COLUMN
1.5218  SQLI_PRIMARY_KEY
1.5219  SQLI_FOREIGN_KEY
1.52191 SQLI_ERROR_TEXT
1.52192 SQLI_ERROR_LOG

Re-indexing entries in the DIALOG file.....

Compiling all forms ...

```

```
DICATT                (#.001)
DIPTED                (#.1001)
DIKC EDIT             (#.1101)
DIKC EDIT UI         (#.1102)
<output elided>

INITIALIZATION COMPLETED IN 4 SECONDS.
This version (#22.2T0) of 'DIINIT' was created on 13-DEC-2012
      (at FILEMAN.MUMPS.ORG, by Fileman 22.2T0)

NOTE: This package also contains SECURITY KEYS
NOTE: This package also contains OPTIONS
NOTE: This package also contains REMOTE PROCEDURES

ARE YOU SURE EVERYTHING'S OK? No// Y <ENTER>
Executing the Pre-Init for Fileman 22.2

Deleting the now no longer used ^DD(FN,0,"DDA") nodes
Deleting the DIAUDIT DD menu option, no longer used in FM 22.2

...SORRY, LET ME PUT YOU ON 'HOLD' FOR A
SECOND .....
.....
'DDBROWSER' Option Filed
'DDMP IMPORT' Option Filed
'DDS DELETE A FORM' Option Filed
'DDS EDIT/CREATE A FORM' Option Filed
'DDS PURGE UNUSED BLOCKS' Option Filed
'DDS RUN A FORM' Option Filed
'DDS SCREEN MENU' Option Filed
'DDXP CREATE EXPORT TEMPLATE' Option Filed
'DDXP DEFINE FORMAT' Option Filed
'DDXP EXPORT DATA' Option Filed
'DDXP EXPORT MENU' Option Filed
'DDXP FORMAT DOCUMENTATION' Option Filed
'DDXP SELECT EXPORT FIELDS' Option Filed
'DI DD COMPILE' Option Filed
'DI DDMAP' Option Filed
'DI DDU' Option Filed
'DI DDUCHK' Option Filed
'DI INPUT COMPILE' Option Filed
'DI MGMT MENU' Option Filed
'DI PRINT COMPILE' Option Filed
'DI REINITIALIZE' Option Filed
```

```
'DI SET MUMPS OS' Option Filed  
'DI SORT COMPILE' Option Filed  
'DIAUDIT' Option Filed  
'DIAUDIT DD' Option Filed  
'DIAUDIT MONITOR USER' Option Filed  
'DIAUDIT PURGE DATA' Option Filed  
'DIAUDIT PURGE DD' Option Filed  
'DIAUDIT TURN ON/OFF' Option Filed  
'DIAUDITED FIELDS' Option Filed  
'DIAX ADD/DELETE' Option Filed  
'DIAX CANCEL' Option Filed  
'DIAX CREATE' Option Filed  
'DIAX EXTRACT MENU' Option Filed  
'DIAX MODIFY' Option Filed  
'DIAX PRINT' Option Filed  
'DIAX PURGE' Option Filed  
'DIAX SELECT' Option Filed  
'DIAX UPDATE' Option Filed  
'DIAX VALIDATE' Option Filed  
'DIEDFILE' Option Filed  
'DIEDIT' Option Filed  
'DIFG' Option Filed  
'DIFG CREATE' Option Filed  
'DIFG DISPLAY' Option Filed  
'DIFG GENERATE' Option Filed  
'DIFG INSTALL' Option Filed  
'DIFG SPECIFIERS' Option Filed  
'DIFG VIEW' Option Filed  
'DIFG-SRV-HISTORY' Option Filed  
'DIFIELD CHECK' Option Filed  
'DIIDENT' Option Filed  
'DIINQUIRE' Option Filed  
'DIITRAN' Option Filed  
'DIKEY' Option Filed  
'DILIST' Option Filed  
'DIMODIFY' Option Filed  
'DIOTHER' Option Filed  
'DIOTRAN' Option Filed  
'DIPRINT' Option Filed  
'DIRDEX' Option Filed  
'DISEARCH' Option Filed  
'DISTATISTICS' Option Filed  
'DITEMP' Option Filed  
'DITRANSFER' Option Filed  
'DIUNEDIT' Option Filed  
'DIUSER' Option Filed  
'DIUTILITY' Option Filed  
'DIVERIFY' Option Filed
```



```
'DIWF' Option Filed
'DIXREF' Option Filed
'DMSQ DIAGNOSTICS' Option Filed
'DMSQ MENU' Option Filed
'DMSQ PRINT ERRORS' Option Filed
'DMSQ PROJECT' Option Filed
'DMSQ PS COLUMNS BY DOMAIN' Option Filed
'DMSQ PS COLUMNS REG NOID' Option Filed
'DMSQ PS MENU' Option Filed
'DMSQ PS TOTAL COLUMNS' Option Filed
'DMSQ PS TOTAL COLUMNS REG' Option Filed
'DMSQ PS TOTAL INDEXES' Option Filed
'DMSQ PS TOTAL TABLE COLS' Option Filed
'DMSQ PS TOTAL TABLE COLS A' Option Filed
'DMSQ PS TOTAL TABLE ELEMENTS' Option Filed
'DMSQ PS TOTAL TABLES' Option Filed
'DMSQ PURGE' Option Filed
'DMSQ SUGGEST TABLE GROUPINGS' Option Filed
'DMSQ TS FIELDS BRIEF' Option Filed
'DMSQ TS FIELDS FULL' Option Filed
'DMSQ TS MENU' Option Filed
'DMSQ TS NAMES' Option Filed
'DMSQ TS PTR PARENT BRIEF' Option Filed
'DMSQ TS PTR PARENT FULL' Option Filed
'DMSQ TS PTR STATS' Option Filed
'DMSQ TS PTR STATS SUMMARY' Option Filed
'DMSQ TS PTR SUBFILE FULL' Option Filed
'DMSQ TS SUBFILE BRIEF' Option Filed.....

This version (#22.2T0) of 'DMLAINIT' was created on 06-DEC-2012
(at FILEMAN.MUMPS.ORG, by Fileman 22.2T0)

I AM GOING TO SET UP THE FOLLOWING FILES:

      .85          LANGUAGE (including data)
Note: You already have the 'LANGUAGE' File.
I will OVERWRITE your data with mine.

...SORRY, JUST A MOMENT PLEASE.....
OK, I'M DONE.
NOTE THAT FILE SECURITY-CODE PROTECTION HAS BEEN MADE
```

Enable Logons

Use Fileman to edit the Inhibit Logon field in the VOLUME SET file (#14.5) for each volume set. This will allow Taskman to start tasks.

```
>D Q^DI
Fileman 22.2
Select OPTION: ENTER OR EDIT FILE ENTRIES
INPUT TO WHAT FILE: VOLUME SET <ENTER>
EDIT WHICH FIELD: ALL// INHIBIT LOGONS ? <ENTER>
THEN EDIT FIELD: <ENTER>
Select VOLUME SET: VAH <ENTER>
INHIBIT LOGONS?: YES// NO <ENTER>
```

Post-Install Taskman Procedures

Start Taskman.

```
>D ^ZTMB
```

Start all Background Filers that You Previously Stopped

Refer to each package's documentation on how to start its background tasks. Normally Taskman is responsible for starting background tasks/filers. However, if there are any background tasks that are started manually from an external program, you will have to start them.

**** You have now completed the installation of Fileman. ****

Installation on GT.M on Unix with Kernel Installed

This installation requires a pre-existing Kernel version 8.0.

You should have backed-up your system already.

Stop All Background Filers, such as those for MailMan, OE/RR, Integrated Billing, and HL7

Since there is no menu option to shut down the OE/RR background filer (routine ORTSK), this job will need to be stopped via the appropriate M operating system utility. Make sure to run ZSY, %SS, or an equivalent utility to ensure that all jobs have stopped. Do not proceed if all jobs have not been stopped yet.

Pre-Install Taskman Procedures

Shut down Taskman. Make sure you shut down active submanagers.

```
>D STOP^ZTMKU
```

```
Are you sure you want to stop TaskMan? NO// Y <ENTER>  
Shutting down TaskMan.
```

```
Should active submanagers shut down after finishing their  
current tasks? NO// Y <ENTER>  
Okay!
```

```
Should active jobs be signaled to stop? NO// Y <ENTER>
```

```
Signaling active Tasks to STOP.  
Done.
```

DO NOT PROCEED AT THIS POINT UNLESS YOU ARE SURE THAT THERE ARE NO VISTA/RPMS RELATED TASKS RUNNING EXCEPT YOUR OWN. RUN %SS OR ZSY TO CONFIRM.

Inhibit Logons for Each Volume Set

You may also use the operating system (OS) command to prevent logons. Using the OS command will not cause a problem and will allow you to work within the menu system as needed during the installation.

Use Fileman to edit the VOLUME SET file (#14.5). Replace **VAH** below with your active volume set. If unsure, you can inhibit log-ins for all volume sets in the file.

```
>D Q^DI
Fileman 22.0
Select OPTION:  ENTER OR EDIT FILE ENTRIES
INPUT TO WHAT FILE:  VOLUME SET// <ENTER>
EDIT WHICH FIELD:  ALL//  INHIBIT LOGONS ? <ENTER>
THEN EDIT FIELD:  <ENTER>
Select VOLUME SET:  VAH <ENTER>
INHIBIT LOGONS?:  NO//  YES <ENTER>
```

Delete Old Fileman Routines and Object files

Find the main routines directory on Unix, and delete all Fileman routines from it. *Please note that if you have local routines (DIZ*, DDZ*, DMZ*), you need to back those up prior to deletion and then restore them later.*

Here is an example, shown from a Linux command-line prompt (note that your site may use a different directory structure):

```
[~]$ echo $gtmroutines
/home/sandbox/r/6.0-000(/home/sandbox/r) /home/sandbox/lib/gtm
[~]$ cd /home/sandbox/r/
[~]$ rm -v D{I,D,M}*.m
[~]$ rm -v 6.0-000/D{I,D,M}*.o
```

Read the Routines into the System

Use your M system's routine loading utility to load the Fileman version 22.2 routines from the distribution file (VA-FILEMAN-22P2.RSA).

```

>D ^%RI

Routine Input Utility - Converts R0 file to *.m files.

Formfeed delimited <No>? <ENTER>
Input device: <terminal>: /tmp/VA-FILEMAN-22P2.RSA <ENTER>

Fileman 22.2
GT.M 13-DEC-2012 14:46:40

Output directory : <-----Enter the full path for the
directory where your VISTA routines reside

DDBR      DDBR0      DDBR1      DDBR2      DDBR3      DDBR4
<remaining output elided>

```

Run DINTEG to Check the Integrity of the Routines You Have Loaded.

DINTEG detects any discrepancies between your copy of Fileman and the one distributed by the developers.

NOTE: As the integrity of the routines is checked, each will be compiled by GT.M. Many of these routines contains non-GT.M commands which will generate compiler errors. Code guards will ensure that these commands will never be executed, so these errors should be ignored.

```

>D ^DINTEG

Checksum routine created on 3121213.153844 by KERNEL V7.3

DDBR      ok
DDBR0     ok
<rest of the output elided>

```

Rename % Routines

Save DIDT as %DT, DIDTC as %DTC, and DIRCR as %RCR. Note: underscores below are used instead of % per GT.M system requirements.

From a Linux command-line prompt:

```

cp ~/r/DIDT.m ~/r/_DT.m
cp ~/r/DIDTC.m ~/r/_DTC.m
cp ~/r/DIRCR.m ~/r/_RCR.m

```

Initialize Fileman; Install Menu Options, Security Keys, and Remote Procedures; Install the Expanded Language File

```
>D ^DINIT,^DIINIT,^DMLAINIT
```

The following is an example of the initialization process done at the Development RPMS Environment. For the prompts for Site Name and Number, you should accept the defaults unless you are planning to rename your site or change its station number. The first time you run DINIT for V22.2, you will not be asked whether to change the MUMPS OPERATING SYSTEM file; the file will be changed automatically. In subsequent times when you run DINIT, you will be given that choice.

```
>D ^DINIT,^DIINIT,^DMLAINIT
```

```
Fileman V.22.2
```

```
Initialize Fileman now? NO//Y <ENTER>
```

```
SITE NAME: DEMO SITE// <ENTER> <--- Enter your site name here
```

```
SITE NUMBER: 8904// <ENTER> <----- Enter your site number here
.....
```

```
Now loading MUMPS Operating System File
```

```
Do you want to change the MUMPS OPERATING SYSTEM File? NO//Y
<ENTER>
```

```
Now loading DIALOG and LANGUAGE
```

```
Files.....
.....
```

```
TYPE OF MUMPS SYSTEM YOU ARE USING: GT.M(UNIX)// <ENTER>
```

```
Now loading other FileMan files--please
wait.....
```

```

.....
.....
.....
.....
.....
.....
.....

```

The following files have been installed:

```

.11      INDEX
.2       DESTINATION
.31      KEY
.4       PRINT TEMPLATE
.401     SORT TEMPLATE
.402     INPUT TEMPLATE
.403     FORM
.404     BLOCK
.44      FOREIGN FORMAT
.46      IMPORT TEMPLATE
.5       FUNCTION
.6       DD AUDIT
.7       MUMPS OPERATING SYSTEM
.81      DATA TYPE
.83      COMPILED ROUTINE
.84      DIALOG
.85      LANGUAGE
1        FILE
1.1      AUDIT
1.11     ARCHIVAL ACTIVITY
1.12     FILEGRAM HISTORY
1.13     FILEGRAM ERROR LOG
1.2      ALTERNATE EDITOR
1.521    SQLI_SCHEMA
1.52101  SQLI_KEY_WORD
1.5211   SQLI_DATA_TYPE
1.5212   SQLI_DOMAIN
1.5213   SQLI_KEY_FORMAT
1.5214   SQLI_OUTPUT_FORMAT
1.5215   SQLI_TABLE
1.5216   SQLI_TABLE_ELEMENT
1.5217   SQLI_COLUMN
1.5218   SQLI_PRIMARY_KEY
1.5219   SQLI_FOREIGN_KEY
1.52191  SQLI_ERROR_TEXT
1.52192  SQLI_ERROR_LOG

```

Re-indexing entries in the DIALOG file.....

```

Compiling all forms ...

    DICATT                      (#.001)
    DIPTED                      (#.1001)
    DIKC EDIT                   (#.1101)
    <output elided>

INITIALIZATION COMPLETED IN 9 SECONDS.
This version (#22.2T0) of 'DIINIT' was created on 13-DEC-2012
    (at FILEMAN.MUMPS.ORG, by Fileman 22.2T0)

NOTE: This package also contains SECURITY KEYS
NOTE: This package also contains OPTIONS
NOTE: This package also contains REMOTE PROCEDURES

ARE YOU SURE EVERYTHING'S OK? No// Y <ENTER>
Executing the Pre-Init for Fileman 22.2

Deleting the now no longer used ^DD(FN,0,"DDA") nodes
Deleting the DIAUDIT DD menu option, no longer used in FM 22.2

...EXCUSE ME, LET ME PUT YOU ON 'HOLD' FOR A
SECOND.....
.....
.....
'DDBROWSER' Option Filed
'DDMP IMPORT' Option Filed
'DDS DELETE A FORM' Option Filed
'DDS EDIT/CREATE A FORM' Option Filed
'DDS PURGE UNUSED BLOCKS' Option Filed
'DDS RUN A FORM' Option Filed
'DDS SCREEN MENU' Option Filed
'DDXP CREATE EXPORT TEMPLATE' Option Filed
'DDXP DEFINE FORMAT' Option Filed
'DDXP EXPORT DATA' Option Filed
'DDXP EXPORT MENU' Option Filed
'DDXP FORMAT DOCUMENTATION' Option Filed
'DDXP SELECT EXPORT FIELDS' Option Filed
'DI DD COMPILE' Option Filed
'DI DDMAP' Option Filed
'DI DDU' Option Filed
'DI DDUCHK' Option Filed
'DI INPUT COMPILE' Option Filed
'DI MGMT MENU' Option Filed

```



```
'DI PRINT COMPILE' Option Filed  
'DI REINITIALIZE' Option Filed  
'DI SET MUMPS OS' Option Filed  
'DI SORT COMPILE' Option Filed  
'DIAUDIT' Option Filed  
'DIAUDIT DD' Option Filed  
'DIAUDIT MONITOR USER' Option Filed  
'DIAUDIT PURGE DATA' Option Filed  
'DIAUDIT PURGE DD' Option Filed  
'DIAUDIT TURN ON/OFF' Option Filed  
'DIAUDITED FIELDS' Option Filed  
'DIAX ADD/DELETE' Option Filed  
'DIAX CANCEL' Option Filed  
'DIAX CREATE' Option Filed  
'DIAX EXTRACT MENU' Option Filed  
'DIAX MODIFY' Option Filed  
'DIAX PRINT' Option Filed  
'DIAX PURGE' Option Filed  
'DIAX SELECT' Option Filed  
'DIAX UPDATE' Option Filed  
'DIAX VALIDATE' Option Filed  
'DIEDFILE' Option Filed  
'DIEDIT' Option Filed  
'DIFG' Option Filed  
'DIFG CREATE' Option Filed  
'DIFG DISPLAY' Option Filed  
'DIFG GENERATE' Option Filed  
'DIFG INSTALL' Option Filed  
'DIFG SPECIFIERS' Option Filed  
'DIFG VIEW' Option Filed  
'DIFG-SRV-HISTORY' Option Filed  
'DIFIELD CHECK' Option Filed  
'DIIDENT' Option Filed  
'DIINQUIRE' Option Filed  
'DIITRAN' Option Filed  
'DIKEY' Option Filed  
'DILIST' Option Filed  
'DIMODIFY' Option Filed  
'DIOOTHER' Option Filed  
'DIOTRAN' Option Filed  
'DIPRINT' Option Filed  
'DIRDEX' Option Filed  
'DISEARCH' Option Filed  
'DISTATISTICS' Option Filed  
'DITEMP' Option Filed  
'DITRANSFER' Option Filed  
'DIUNEDIT' Option Filed  
'DIUSER' Option Filed
```

```

'DIUTILITY' Option Filed
'DIVERIFY' Option Filed
'DIWF' Option Filed
'DIXREF' Option Filed
'DMSQ DIAGNOSTICS' Option Filed
'DMSQ MENU' Option Filed
'DMSQ PRINT ERRORS' Option Filed
'DMSQ PROJECT' Option Filed
'DMSQ PS COLUMNS BY DOMAIN' Option Filed
'DMSQ PS COLUMNS REG NOID' Option Filed
'DMSQ PS MENU' Option Filed
'DMSQ PS TOTAL COLUMNS' Option Filed
'DMSQ PS TOTAL COLUMNS REG' Option Filed
'DMSQ PS TOTAL INDEXES' Option Filed
'DMSQ PS TOTAL TABLE COLS' Option Filed
'DMSQ PS TOTAL TABLE COLS A' Option Filed
'DMSQ PS TOTAL TABLE ELEMENTS' Option Filed
'DMSQ PS TOTAL TABLES' Option Filed
'DMSQ PURGE' Option Filed
'DMSQ SUGGEST TABLE GROUPINGS' Option Filed
'DMSQ TS FIELDS BRIEF' Option Filed
'DMSQ TS FIELDS FULL' Option Filed
'DMSQ TS MENU' Option Filed
'DMSQ TS NAMES' Option Filed
'DMSQ TS PTR PARENT BRIEF' Option Filed
'DMSQ TS PTR PARENT FULL' Option Filed
'DMSQ TS PTR STATS' Option Filed
'DMSQ TS PTR STATS SUMMARY' Option Filed
'DMSQ TS PTR SUBFILE FULL' Option Filed
'DMSQ TS SUBFILE BRIEF' Option Filed.....
This version (#22.2T0) of 'DMLAINIT' was created on 06-DEC-2012
      (at FILEMAN.MUMPS.ORG, by Fileman 22.2T0)

I AM GOING TO SET UP THE FOLLOWING FILES:

      .85          LANGUAGE (including data)
Note: You already have the 'LANGUAGE' File.
I will OVERWRITE your data with mine.

...SORRY, JUST A MOMENT PLEASE.....
OK, I'M DONE.
NOTE THAT FILE SECURITY-CODE PROTECTION HAS BEEN MADE

```

Enable Logons

Use Fileman to edit the Inhibit Logon field in the VOLUME SET file (#14.5) for each volume set. This will allow Taskman to start tasks.

```
>D Q^DI
Fileman 22.2
Select OPTION: ENTER OR EDIT FILE ENTRIES
INPUT TO WHAT FILE: VOLUME SET <ENTER>
EDIT WHICH FIELD: ALL// INHIBIT LOGONS ? <ENTER>
THEN EDIT FIELD: <ENTER>
Select VOLUME SET: VAH <ENTER>
INHIBIT LOGONS?: YES// NO <ENTER>
```

Post-Install Taskman Procedures

Start Taskman.

```
>D ^ZTMB
```

Start all Background Filers that You Previously Stopped

Refer to each package's documentation on how to start its background tasks. Normally Taskman is responsible for starting background tasks/filers. However, if there are any background tasks that are started manually from an external program, you will have to start them.

**** You have now completed the installation of Fileman. ****

Stand-alone Fileman Installation

Your backup should be already completed by this point if you have any data to back-up.

The following instructions apply to installation of stand-alone FileMan (i.e., without Kernel).

Routine Mapping for Cache

Before you start, you need to remember that Cache maps % routines to the %SYS namespace. Using Cache tools (not described in this manual), you need to map %DT, %DTC, %RCR, %ZIS, %ZISS, and %ZISC to the namespace where Fileman will be installed.

Delete Old Fileman Routines

It is recommended that you delete the old Fileman routines just before loading in the new ones to ensure that the only routines in Fileman's namespace are those coming in with version 22.2. Use your M system routine deletion utility to delete the DD*, DI*, and DM* routines, preserving local routines (DDZ*, DIZ*, DMZ*) if necessary.

Load Routines

Use your M system's routine loading utility to load the Fileman version 22.2 routines from the distribution file (VA-FILEMAN-22P2.RSA) into your account.

Rename Routines

Rename, using the commands available with your M implementation.

DIDT	rename to	%DT
DIDTC	rename to	%DTC

DIRCR	rename to	%RCR
DIIS	rename to	%ZIS
DISS	rename to	%ZISS
DIISC	rename to	%ZISC

Customize %ZIS and %ZISS Routines

If you are not using a VT100 terminal (or a terminal emulating a VT100), you will need to customize the %ZIS and %ZISS routines in the Manager account.

Run DINIT—Initializing Fileman

Finally, return to the account and run the DINIT routine. DINIT prompts you for a site name and number like this:

```
SITE NAME:
SITE NUMBER:
```

Note: The site number entered by the installer will be multiplied by 1000 to determine the beginning number of the default file number assignment, when using the Modify File Attributes option to add a new file.

After entering the site number, there will be a slight pause while Fileman installs the MUMPS OPERATING SYSTEM file (#.7), DIALOG file (#.84) and the LANGUAGE file (#.85). The installer will then be asked:

```
TYPE OF MUMPS SYSTEM YOU ARE USING:
```

Type a question mark ("?") at this point to see your choices. If you do not see your M operating system vendor listed, or you are unsure, enter OTHER in answer to this prompt.

Then the other Fileman files will be initialized.

The PACKAGE file (#9.4) will be initialized next. The PACKAGE file is necessary if you want to bundle an application package together for export

using DIFROM. (In the Programmer Manual, see the DIFROM section of the Programmer Utilities chapter.) The PACKAGE file will not be updated if you have a File #9.4 with a name other than "PACKAGE."

When the initialization has completed, you will see the statement:

```
INITIALIZATION COMPLETED IN nnnn SECONDS.
```

An example installation:

```
>D ^DINIT

Fileman V.22.2T0

Initialize Fileman now?  NO//Y <ENTER>
SITE NAME: DEV SITE// <----- Enter your site name here
SITE NUMBER: 1// <----- Enter your site number here

Now loading MUMPS Operating System File

Do you want to change the MUMPS OPERATING SYSTEM File? NO//Y
<ENTER>

Now loading DIALOG and LANGUAGE
Files.....
...

TYPE OF MUMPS SYSTEM YOU ARE USING: GT.M(UNIX)// ?? <ENTER>

  Choose from:
  CACHE/OpenM
  DSM for OpenVMS
  DTM-PC
  GT.M(UNIX)
  GT.M(VAX)
  MSM
  OTHER

TYPE OF MUMPS SYSTEM YOU ARE USING: GT.M(UNIX)// <ENTER>
```

```
Now loading other FileMan files--please
wait.....
.....
.....
.....
.....

The following files have been installed:
  .11      INDEX
  .2       DESTINATION
  .31      KEY
  .4       PRINT TEMPLATE
  .401     SORT TEMPLATE
  .402     INPUT TEMPLATE
  .403     FORM
  .404     BLOCK
  .44      FOREIGN FORMAT
  .46      IMPORT TEMPLATE
  .5       FUNCTION
  .6       DD AUDIT
  .7       MUMPS OPERATING SYSTEM
  .81      DATA TYPE
  .83      COMPILED ROUTINE
  .84      DIALOG
  .85      LANGUAGE
  1        FILE
  1.1      AUDIT
  1.11     ARCHIVAL ACTIVITY
  1.12     FILEGRAM HISTORY
  1.13     FILEGRAM ERROR LOG
  1.2      ALTERNATE EDITOR
  1.521    SQLI_SCHEMA
  1.52101  SQLI_KEY_WORD
  1.5211   SQLI_DATA_TYPE
  1.5212   SQLI_DOMAIN
  1.5213   SQLI_KEY_FORMAT
  1.5214   SQLI_OUTPUT_FORMAT
  1.5215   SQLI_TABLE
  1.5216   SQLI_TABLE_ELEMENT
  1.5217   SQLI_COLUMN
  1.5218   SQLI_PRIMARY_KEY
  1.5219   SQLI_FOREIGN_KEY
  1.52191  SQLI_ERROR_TEXT
  1.52192  SQLI_ERROR_LOG

Your Package file will now be updated.
```

I AM GOING TO SET UP THE FOLLOWING FILES:

9.4 PACKAGE

Note: You already have the 'PACKAGE' File.

...HMMM, THIS MAY TAKE A FEW
MOMENTS.....
OK, I'M DONE.

NOTE THAT FILE SECURITY-CODE PROTECTION HAS BEEN MADE

Re-indexing entries in the DIALOG file.....

Compiling all forms ...

DICATT	(#.001)
DIPTED	(#.1001)
DIKC EDIT	(#.1101)
DIKC EDIT UI	(#.1102)
DIKK EDIT	(#.3101)
DIBTED	(#.40001)
DIETED	(#.40101)
DIEDIT	(#.40201)
DDGF BLOCK EDIT	(#.40301)
DDGF PAGE ADD	(#.40302)
DDGF PAGE EDIT	(#.40303)
DDGF PAGE SELECT	(#.40304)
DDGF FORM EDIT	(#.40305)
DDGF HEADER BLOCK EDIT	(#.40306)
DDGF FIELD ADD	(#.40401)
DDGF FIELD CAPTION ONLY	(#.40402)
DDGF FIELD DD	(#.40403)
DDGF FIELD FORM ONLY	(#.40404)
DDGF FIELD COMPUTED	(#.40405)
DDGF BLOCK ADD	(#.40406)
DDGF BLOCK DELETE	(#.40407)
DDGF HEADER BLOCK SELECT	(#.40408)
DDXP FF FORM1	(#.441)
DDMP SPECIFY IMPORT	(#.461)

INITIALIZATION COMPLETED IN 2 SECONDS.

Fileman is now ready to use.

