

***MAGICwindows V2.1  
System Manager's Guide***

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# QUICKSTART

## Log into SYSTEM

Make sure that system usage is relatively light. It is best to log into SYSTEM and not into an account with equivalent privileges.

## Type @SYS\$UPDATE:VMSINSTAL MAGWIN input\_device:

Replace *input\_device* with the name of the device on which you mounted the distribution media. To show different tape devices on your system type **SHOW DEVICE M** at the DCL prompt.

## Type MAGIC

When the program starts for the first time it will go directly to a screen which asks for a license.

## Enter the temporary demo license

The following is an example only. Your date and key will be different.

Company / City : **INTERIM LICENSE / EXPIRES 12-AUG-97**

Key : **1234567890123**

When you press [Enter] after entering the license key, the program will exit taking you back to the DCL prompt. Type MAGIC again to start the program with the license key you entered. If you get back to the screen asking for a license, then you have made a typographical error. Make sure you type the information exactly as shown, noting that there is a space before and after the / character.

## Try MAGICwindows

Make sure that you are at the MAGICwindows main screen showing a blank menu.

## Press E

You will now edit your menu to add some items to try MAGICwindows.

## Press 1

## Type DCL [Enter] \*(/I) [Enter]

You have just put an interactive DCL in slot 1 on the menu.

## Press 2

## Type Monitor [Enter] MONITOR SYSTEM [Enter]

Now you have put the command to monitor system activity in slot 2 on the menu.

### **Press F**

This finishes editing your menu. You are now back at the main screen with 2 items on the menu:  
1 DCL, 2 Monitor.

### **Now Start Two Programs and Switch between Them**

#### **Press 1**

The screen should clear and you should see 1\$ the DCL prompt.

#### **Type DIR [Enter]**

This should fill your screen up with a directory listing.

#### **Press the MAGIC key `**

The grave key ` is to the left of the 1 key, top-left corner of most keyboards. Pressing the MAGIC key brings you back to the MAGICwindows main menu. Let's start another program.

#### **Press 2**

You should see the output of the MONITOR SYSTEM command on the screen. Now we will switch between the two active programs.

#### **Press the MAGIC key `**

You are back at the MAGICwindows main menu. You may switch back and forth as often as you like by pressing the MAGIC key and then 1 or 2.

### **Now Let Us Stop the Programs and Finish Using MAGICwindows**

Make sure that you are at the DCL prompt in slot 1.

#### **Type LOGOUT [Enter]**

Slot 1 will terminate and you will go back to the MAGICwindows main menu.

#### **Press 2**

This will take you back to the MONITOR SYSTEM slot.

#### **Press [Ctrl] Z**

This will stop the monitor program in slot 2 and bring you back to the main menu.

#### **Press F**

This will finish running MAGICwindows.

## ***INSTALLATION***

This section explains how MAGICwindows is installed on your VAX/VMS computer.

After the software is installed and the program is started the installer must call EMETEK to obtain a licensing key. This may be done Mondays through Fridays from 8:00am to 5:00pm (Pacific Standard Time).

The installation is performed using the standard procedure VMSINSTAL. During the installation all required files are moved to the system disk.

The DCL command MAGIC is added to the system.

The identifier MAGIC\_MANAGER is added to the rights database and the user performing the installation is granted rights to that identifier. This gives the installer the right to manage MAGICwindows.

## ***Pre-installation Checklist***

MAGICwindows will run on all versions of VMS from version 5.4-02 and above on the VAX platform and from version 6.0 and above on the AXP platform.

At least 1000 free global pages and 10 free global sections should be available otherwise the installation will be aborted.

The account from where the installation is being performed must have a unique UIC. If other accounts on the system have the same UIC, then the installer cannot be granted management rights.

## ***Running VMSINSTAL***

You must log into the SYSTEM account or any privileged account and type:

```
$ @SYSSUPDATE: VMSINSTAL MAGWIN device:
```

where "device:" is the logical name for the device on which you have physically mounted the MAGICwindows distribution media.

You might want to purge the older files once the new version is running properly. Issue the following commands:

```
$ PURGE SYSSHELP: MAGIHELP. HLP
$ PURGE SYSSMANAGER: MAGICSTART. COM
$ PURGE SYSSMANAGER: MAGICUSERS. COM
$ PURGE SYSSMANAGER: DBLTNMBRS. COM
$ PURGE SYSSSYSTEM: MAGIC. EXE
$ PURGE SYSSSYSTEM: MMLOGGER. EXE
```

To start MAGICwindows type MAGIC at DCL.

## ***Validating the License***

You will need to call EMETEK to get the licensee name and key number to activate MAGICwindows. You can only enter the license if you are logged into the SYSTEM account or if your account has MAGICwindows management rights.

- ⇒ Start at the main menu.
- ⇒ Press M for Maintain.

The Maintenance Menu will be displayed.

- ⇒ Press V for Validate License.

**Please note:** When you start the program for the first time, or, if your license has expired, the program will take you directly to the Validate License screen.

The following is a typical screen showing the entry of a temporary key:

```
Licensee:                               MAGICwindows V2. 0- 03
EMETEK / LOS ANGELES                    10- FEB- 1994
-----
Validate License.

                Please call Emetek at 310/552- 1172
                to validate this copy of MAGICwindows.

Enter Licensee: INTERIM LICENSE / EXPIRES 02- FEB- 94

                Key: 12341231231234
```

## ***Editing Startup Files***

Each time the system is re-booted, certain parameters must be set up in order for the program to run properly and for it to be accessible to all users.

The system manager should make the following changes:

Edit the file SYSSMANAGER:SYSTARTUP\_V5.COM and add the following line:

```
S @SYSSMANAGER: MAGICSTART
```

## ***Locating the Menu Data File***

User menus, special menus, and other data are stored in the file SYSSCOMMON:[SYSLIB]MMINFO.DAT by default. The system manager may override this default by defining a system-wide logical name MMINFO which translates into the full path name for the file.

Please make sure that the file is:

1. Cluster visible
2. Accessible to the WORLD for read and write (only).

Most sites should find the default location suitable.

## Defining the Magic Key

The default value for the Magic Key is 96 decimal which translates to ` (grave, top-left corner of the keyboard). This can be changed by defining a logical to contain the decimal value of the key. The logical is translated when MAGICwindows is first started. The logical name can be defined as follows:

```
$ ! Ctrl Spacebar for current user
$ DEFINE MAGIC_KEY 0
$ !
$ ! Ctrl \ for all users
$ DEFINE/SYSTEM MAGIC_KEY 28
```

Some commonly used keys are:

Decimal	Keystroke
0	Ctrl spacebar
28	Ctrl 4 or \
29	Ctrl 5 or ]
30	Ctrl 6 or ~
31	Ctrl 7 or ?
96	`

Make sure that the key chosen is not one commonly used by any application.

## Defining the Background Priority

Background processes normally have their base priority temporarily reduced by 1 so that they don't compete as heavily for resources. When a background process gets chosen to be the active slot, its priority is restored to the original value. The drop in priority can be controlled on a system-wide basis by defining a logical name as follows:

```
$ DEFINE/SYSTEM MAGIC_DROP_PRI 2
```

The logical can be defined to be any digit from 0 to 9.

Most sites should find the default setting suitable.

## Updating the DIBOL Terminal Table

This part of the installation only applies to sites that are running DIBOL programs.

DIBOL translates terminal names into numbers via a table of device names. The MAGICwindows device name (FTA) must be added to this table. This is done by running a command procedure. This procedure first adds all the standard physical terminal names (TTA, TXA, etc.) to the table and then prompts for additional devices.

You can tell if you need to apply this patch if you run a DIBOL program from MAGICwindows and get the following error message:

```
%DBL-F-ILLTRNUM, Illegal terminal number [#059]
```

The command procedure to run is DBLTNMBRS.COM which can be found in SYSSUPDATE or SYSSMANAGER (the latter is provided as part of the installation procedure).

A typical session is reproduced below. Note that for devices per controller you should enter the largest unit number you are likely to see on the system. Thus, FTA and VTA are specified as 9999 since these terminal devices could have unit numbers as large as 9999.

The following is a sample session (Note: your site will be different):

```
$ @SYSSUPDATE: DBLTNMBRS
Do you wish to add any additional devices [No]: YES
Enter device type and controller letter, as in TTA: FTA
Terminal numbers for VTB will start at 9
Press RETURN to accept that number or enter a new number:
How many devices per controller [8]: 9999
Do you wish to add any additional devices [No]: YES
Enter device type and controller letter, as in TTA: VTA
Terminal numbers for VTA will start at 10008
Press RETURN to accept that number or enter a new number:
How many devices per controller [8]: 9999
Do you wish to add any additional devices [No]: YES
Enter device type and controller letter, as in TTA: RTA
Terminal numbers for RTA will start at 20007
Press RETURN to accept that number or enter a new number:
How many devices per controller [8]: 32
Do you wish to add any additional devices [No]: YES
Enter device type and controller letter, as in TTA: LTA
Terminal numbers for LTA will start at 20039
Press RETURN to accept that number or enter a new number:
How many devices per controller [8]: 8
Do you wish to add any additional devices [No]: NO
PATCH Version 4-00 15-Sep-1993
.
.
.
%PATCH-I-WRTFIL, updating image file SYSSSYSROOT:[SYSLIB]DBLRTL.EXE; 3
$
```

When the command procedure completes you must replace the installed version of the image in memory before the changes take effect.

Make sure that no users are running any DIBOL applications. Issue the following DCL commands:

```
$ INSTALL : == $INSTALL/COMMAND
$ INSTALL REPLACE SYSSSHARE: DBLRTL/OPEN/HEADER/SHARED
```

## ***APPOINTING MANAGERS***

When the program is first installed only user SYSTEM and the installer are granted the right to perform maintenance functions. A privileged user may grant other users that right using the VAX/VMS system utility AUTHORIZE.

### ***Granting Management Rights***

This is accomplished by granting user rights to the identifier MAGIC\_MANAGER (the identifier is added to the rights database at installation time):

```
UAF> GRANT/IDENTIFIER MAGIC_MANAGER USERXYZ
```

If this command fails, it is most likely that the account USERXYZ has the same UIC as other accounts on the system.

## ***Revoking Management Rights***

When a user must no longer be allowed to manage the program issue the following command to AUTHORIZE:

```
UAF> REVOKE/IDENTIFIER MAGIC_MANAGER USERXYZ
```

## ***Listing Users with Management Rights***

To have AUTHORIZE display a list of all users allowed to manage MAGICwindows issue the following command:

```
UAF> SHOW/IDENTIFIER/FULL MAGIC_MANAGER
```

# **USER SETUP**

## ***Increasing Quotas***

The number of programs that MAGICwindows will allow a user to start in one session depends on certain quotas in his or her accounting file. If MAGICwindows fails while trying to start a new program, it will identify which quota was exhausted. The quota may be changed by running the VMS AUTHORIZE program. A sample session follows:

```
$ ! Example only. Your site will be different.
$ SET DEFAULT SYSSYSTEM
$ RUN AUTHORIZE
UAF> MODIFY USERXYZ/PRCLM=6/BYTLM=10000 -
_UAF> /FILLM=30/PGFLQU0=15000/ENQLM=80
UAF> EXIT
```

The above commands will modify user USERXYZ. The new sub-process limit is set to 6 and the Buffered I/O byte limit is set to 6000 bytes. The open file limit quota is set to 30 and the page file quota is set to 15000.

A page file quota that is too low is identified by error messages about insufficient dynamic or virtual memory.

**Please Note:** New quota values only take effect when a user logs in.

## ***Captive Users***

It is possible to force any user to run MAGICwindows at log in and to be logged off the system when she or he is finished with MAGICwindows.

Modify the user's log in command procedure (LOGIN.COM) to include the following commands at the end of the file:

```
$ ON ERROR THEN CONTINUE
$ MAGIC
$ IF SSTATUS THEN GOTO DONE
$ ! Too many MW users or other error. Supply
$ ! alternative here.
```

```
$ DONE:  
$ LOGOUT
```

## ***Listing Active Users***

You can print a list of all the users on a system who are running MAGICwindows by issuing the following DCL command:

```
$ @SYSSMANAGER: MAGIUSERS
```

## ***USER MENU***

A MAGICwindows manager can set up the menu for any non-manager on the system. This includes adding, editing and removing user menus, locking and unlocking user menus, and assigning special menus to users.

- ⇒ Start at the main menu.
- ⇒ Press M for Maintain.

The Maintenance Menu will be displayed.

⇒ Press U for User Maintenance.

The User Maintenance Menu will be displayed as follows:

```
Licensee:                               MAGICwindows V2. 0- 03
EMETEK / LOS ANGELES                    10- FEB- 1994
-----
MAINTENANCE FUNCTIONS.
User Maintenance.

  E Edit User Menu                      A Assign Special Menu To User
  R Remove User Menu                   D Deassign Special Menu

  S Show User Status                   L Lock User Menu
  F Finished                           U Unlock user Menu

Press option:
```

### **Edit User Menu**

As a MAGICwindows manager you may edit any user's menu. If the menu doesn't already exist, a new one will be created.

⇒ Start at the User Maintenance Menu.

⇒ Press E for Edit User Menu.

The program will ask you for the user name.

⇒ Enter the user name.

If the user name is valid, it will allow you to edit the menu.

You will not be allowed to proceed if the user is assigned to a special menu.

**NOTE:** For instructions on how to define program descriptions and commands, please refer to the *MAGICwindows User's Guide*.

### **Remove User Menu**

You may want to remove a user's menu when the user's account has been deleted from the system or if you want that user to use one of the default menus.

⇒ Start at the User Maintenance Menu

⇒ Press R for Remove User Menu.

The program will ask you for the user name.

⇒ Enter the user name.

If the user name is valid, the program will ask for your confirmation before removing the menu.

### **Lock User Menu**

Locking menus prevents users from changing menus that were set up for them by a manager.

⇒ Start at the User Maintenance Menu.

⇒ Press L for Lock User Menu.

The program will ask you to enter the user name.

⇒ Enter the user name.

If the user name is valid, then that user's menu will be locked.

### ***Unlock User Menu***

Use this option to unlock a user menu that was locked.

⇒ Start at the User Maintenance Menu.

⇒ Press U for Unlock User Menu.

The program will ask you to enter the user name.

⇒ Enter the user name.

If the user name is valid, then that user's menu will be unlocked.

### ***Assign Special Menu to User***

In some cases a certain group of users on the system may have identical computing needs and might be able to share a common menu. A manager can set up a special menu to meet their requirements and then assign those users to it.

⇒ Start at the User Maintenance Menu.

⇒ Press A for Assign Special Menu.

The program will prompt for a special menu name.

⇒ Enter special menu name.

If the menu you specify is not found, you will not be able to proceed. The program will then prompt for the user name.

⇒ Enter the user name.

If the user name is valid, then the assignment is made. The next time that user starts MAGICwindows the special menu will be in effect.

### ***Deassign Special Menu***

Use this option to make a user revert back to using his or her own private menu in whatever state it was in at the time the assignment to a special menu was made.

⇒ Start at the User Maintenance Menu.

⇒ Press D for Deassign Special Menu.

The program will prompt you for the user name.

⇒ Enter the user name.

If the user name is valid and a special menu is assigned, it will be de-assigned.

### ***Get Menu***

This option is for managers only. It is used to copy the program definitions and the defaults from any other menu to the menu being edited.

⇒ Start at the Edit menu.

⇒ Press G for Get menu.

The program will ask if you are copying from a special menu. If that is true, press Y.

You will be prompted for the menu name.

⇒ Enter the menu name.

If the menu you name is found, it will be copied to the menu you are currently editing.

### ***Show User Status***

Use this option to show the status of a user.

⇒ Start at the User Maintenance Menu.

⇒ Press S for Show User Status.

The program will ask you to enter the user name.

⇒ Enter the user name.

If the user name is valid and a menu for that user has been set up, then the status will be displayed as one of the following:

User menu is locked.

User menu is unlocked.

User is assigned to special menu XYZ.

## ***SPECIAL MENUS***

If there are groups of users on the system who could use the identical menu, they can be assigned to special menus. Please note that users assigned to special menus are locked and will not be able to change their menus.

- ⇒ Start at the main menu.
- ⇒ Press M for Maintain.

The Maintenance Functions Menu will be displayed.

- ⇒ Press S for Special Menu Maintenance.

The Special Menu Maintenance menu will be displayed as follows:

```
License:                               MAGI Cw indows V2. 0- 03
EMETEK / LOS ANGELES                   10- FEB- 1994
-----
MAINTENANCE FUNCTIONS.
Special Menu Maintenance.

  E Edit Special Menu
  R Remove Special Menu
  L List Special Menus

  F Finished

Press option:
```

### ***Edit Special Menu***

Use this option to edit an existing special menu or to create a new one.

- ⇒ Start at the Special Menu Maintenance menu.
- ⇒ Press E for Edit Special Menu.

The program will ask you to enter the special menu name. Enter a name that helps to identify the group of users that will be using the menu (like SALES, ACCOUNTING, etc.).

- ⇒ Enter special menu name.

If that special menu does not already exist, then a new blank special menu by that name will be created.

### ***Remove Special Menu***

When a special menu is no longer in use you may remove it.

- ⇒ Start at the Special Menu Maintenance menu.
- ⇒ Press R for Remove Special Menu.

The program will ask you to enter the special menu name.

- ⇒ Enter special menu name.

If a special menu by that name is found, it is removed.

**Please note:** If users are currently assigned to the special menu that you removed, then they will not be able to run MAGICwindows.

## ***List Special Menus***

Use this option to display on the terminal a list of names of all the special menus defined.

- ⇒ Start at the Special Menu Maintenance menu.
- ⇒ Press L for List Special Menus.

## ***Special Menus with Autopilot***

Since Special Menus are locked and locked users don't have access to the Autopilot command, there is no direct way to add Autopilot to a special menu. Instead, the following procedure must be followed:

1. Edit a user menu and set it up to have all the programs you want on the Special Menu. Set up any Autopilot commands needed.
2. Log into a MAGICwindows manager's account and edit the Special Menu. If it is newly created, it will be blank.
3. Use the Get function in Edit Menu to get the contents of the template user menu. MAGICwindows will ask if you want the Autopilot commands copied over. Answer yes.

Once this is done, any user assigned to this Special Menu will have the associated Autopilot commands.

## ***DEFAULT MENUS***

MAGICwindows will look for a default menu to use *only* when a manager has not implicitly set up a user's menu. This eliminates the need to set up a large number of users individually. Default menus are special menus with specific names.

If no default is set up, then new users start off with blank, unlocked menus.

### ***The Group Default Menu***

This is a special menu with a name in the format GROUP\_nnn where nnn is the octal group number without leading zeros. For example, all users with UIC's of [210,\*] who don't find their own private menu will look for the special menu GROUP\_210.

### ***The Default Menu***

This is a special menu named DEFAULT. If a user's menu is not explicitly set up, or no group default menu is found, then the program will look for and use this menu if found.

## ***VIEW TERMINAL***

Any MAGICwindows manager can view the contents of another user's terminal. The other user must be running a program through MAGICwindows.

- ⇒ Start at the Main Menu.

⇒ Press V for View Terminal.

You will be prompted for the name of the terminal to view. An easy way to find out which terminal a user is at is to ask the user to enter the MAGICwindows help screen. The user name and terminal name are displayed at the top of the main help screen.

⇒ Enter the terminal name.

Now your screen will show a copy of that user's screen and the copy will be updated as the users screen changes.

To stop the view function press Exit or Ctrl-Z.

## **WARRANTY**

MAGICwindows is supplied with a ninety (90) day warranty against errors in the program. If the error is correctable, then users who are within the warranty period will be supplied with a new version of the program at no charge.

EMETEK makes no other warranty of any kind with regard to this program, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

EMETEK assumes no responsibility for any loss that this program might incur to a user, including, but not limited to, data loss.