Running Non-Windows 3270-Emulation Applications

This document describes some specific problems you might encounter when running non-Windows 3270-emulation applications with Windows version 3.1. For general information about running Windows 3270-emulation applications, see your application's documentation.

Using Write to View This Document

If you enlarge the Write Window to its maximum size, this document will be easier to read. To do so, click the Maximize button in the upper-right corner of the window. Or open the Control menu in the upper-left corner of the Write window (press ALT+SPACEBAR), and then choose the Maximize command.

To move through the document, press PAGE UP and PAGE DOWN or click the arrows at the top and bottom of the scroll bar along the right side of the Write window.

To print the document, choose the Print command from the File menu.

For Help on using Write, press F1.

To read other online documents, choose the Open command from the File menu.

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1.0 Starting 3270-Emulation Applications

You can start most 3270-emulation applications as memory-resident applications (also called terminate-and-stay-resident, or TSRs). Most memory-resident applications are incompatible with a multitasking environment such as Windows, and should not be started before starting Windows, especially when running Windows in 386 enhanced mode.

However, some 3270-emulation applications can be started before you start Windows. Only try this if your application's documentation specifies that this will work. If this will not work, start Windows first, and then run the emulation application from MS-DOS Prompt, or directly from Windows Program Manager.

2.0 Getting Optimal Performance from 3270-Emulation Applications

3270-emulation applications run successfully in Windows 386 enhanced mode. When running these applications in standard mode, you must select the Prevent Program Switch option in the 3270-emulation application's program information file (PIF) to prevent you from losing your mainframe connection.

When running 3270-emulation applications in 386 enhanced mode, do the following to achieve the best results:

• Start all 3270-emulation applications from MS-DOS Prompt.

• Select the Background option in the MS-DOS session's Settings dialog box, or in the PIF you used to start it. This should prevent you from losing your mainframe connection when running other applications.

• Run all 3270-emulation applications in a full screen.

• If you must run a 3270-emulation application in a window, do not use the mouse to select text. Selecting text using the mouse will temporarily suspend your application and might cause you to lose your mainframe connection.

• To use file send and file receive utilities, set the Memory Required option in the PIF for COMMAND.COM so that enough memory is available to load both the emulation application and the utilities at the same time. For memory requirements and system settings recommendations, see the emulation application's documentation.
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• If you are running Windows in standard mode and cannot use Windows shortcut keys to switch away from the 3270-emulation application, or to copy an image of the application's screen contents to the Clipboard, the emulation application is probably intercepting the shortcut keys.

  Try using a shortcut key to switch from the host session to the MS-DOS session the emulation application was started from. This usually causes the

application to pass the keystrokes on to Windows, so that you can switch between tasks.

For more information about PIFs and memory-resident applications, see Chapter 8 "PIF Editor," in the *Microsoft Windows User's Guide*

3.0 Notes on Specific 3270-Emulation Applications

This section contains information about using specific 3270-emulation applications in Windows version 3.1.

3.1 IBM Personal Communications/3270 (PCS)

- PCS reserves specific keys for switching between the host and the MS-DOS sessions. These "hot keys" conflict with the following keys reserved for use by Windows version 3.1:

   CTRL+ESC
   ALT+TAB
   ALT+ESC

   To redefine these key combinations, use a keyboard definition file. For information on how to do this, see your PCS product documentation.

- If you want to configure your 80286-based IBM Personal-System/2 (PS/2) computer to use expanded memory, you must add the following line to your CONFIG.SYS file:

   device=PCSX2EMS.SYS

   If you chose to let Windows modify your CONFIG.SYS file when you set up Windows, this line was removed to make more memory available to Windows. Check the backup CONFIG.SYS file (called CONFIG.OLD) for the exact command line you must add. See your PCS documentation for more information about using PCSX2EMS.SYS.

- Make sure you always unload PCS before quitting the MS-DOS session in which PCS was initialized.

- If your computer is not configured for EMS page frames, you must prevent PCS from using expanded memory. Create a program information file (PIF) for PCS and set the EMS Memory: KB Required and EMS Memory: KB Limit options to 0 or set the **NoEMMDriver** setting to True to disable expanded memory. For information about creating a PIF, see Chapter 8, "PIF Editor," in the *Microsoft Windows User's Guide*. For information about modifying the SYSTEM.INI file, see the SYSINI.WRI online document.

- If you access PCS from a gateway on a PCLP or Token Ring network, you

must prevent other applications from running while PCS is running. To do this, select the Exclusive check box in the PIF for PCS.

3.2 DCA IRMA Workstation Versions 1.03a and Earlier

The DCA Workstation places its font files in the Windows SYSTEM subdirectory on your hard disk. This can cause an error message to occur when running Windows when you set up Windows from the network by using the /n option. To correct this problem, copy the fonts from the SYSTEM subdirectory (for example from C:\WINDOWS\SYSTEM) to your main Windows directory (for example to C:\WINDOWS). Windows will then be able to find the font files.

For System Administrators: If several users will be using DCAWorkstation, make sure that font files are located in the shared Windows directory on the server. Windows will then be able to find the fonts. Users will not need to copy them to their own Windows directories.

3.3 DCA IRMAX or IrmaLan

• When using the DFTSCFG configuration program, make sure that you specify on the Communications Interface Definition screen the same Software Interface Number value for both the workstation and the gateway server. The choices range between 60 and 67. Do not use 67 as it does not work when Windows is running in 386 enhanced mode.

• Make sure the DCA keyboard is loaded before you start Windows, by including the following command line in your CONFIG.SYS file:

   device=kybddrv.sys -1b

   If you are running Windows in standard mode, you must switch to MS-DOS before using Windows shortcut keys to switch tasks. If you don't do this, the driver might intercept keystrokes meant for another non-Windows application and send them to the host.

• If you are running Windows in 386 enhanced mode, add the following line to the [386Enh] section of the SYSTEM.INI file:

      local=extkybd

   For information about modifying the SYSTEM.INI file, see the online document SYSINI.WRI.

• If you want to paste information from the Windows Clipboard to IRMAX, clear the Allow Fast Paste check box of the DCA's PIF in the Advanced Options dialog box in PIF Editor.

3.4 DCA IRMA Plus+

If you try to terminate IRMA Plus by pressing SHIFT+SHIFT to switch to the Host, and then pressing SHIFT+F6 to terminate IRMA Plus, you will return to the MS-DOS prompt, not to the IRMA Pop-up program box. At this point, you can press ALT+TAB and return to Windows, but you cannot terminate IRMA Plus.

To terminate IRMA Plus properly, create the following batch file:

```
echo off
cls
%1 %2 %3 %4 %5 %6 %7 %8 %9
echo MICROSOFT WINDOWS POP-UP SUPPORT
echo Your pop-up program has been loaded and you may activate
echo it as you would normally. When you have finished using this pop-up
echo program, exit it or press any key to return to Windows.
pause
command /c echo Done
```

Name the batch file E7.BAT. Create a PIF for IRMA Plus. In the Program Name box, type **e7.bat**. In the Parameters box, type **e7.com**.

Note: This batch file and its associated PIF file can be used for other emulation applications that do not terminate correctly. Make sure you specify the appropriate application name as the optional parameter.

3.5 Attachmate Extra or Extra Gateway

• If you have problems switching from Extra Gateway, answer Yes to the following question in the Extra Gateway configuration program:

   "Will you be using Windows 386?"

  Answering Yes enables the -CQ option in your EXTRA.BAT file.

  To terminate Extra properly, clear the Close Window On Exit check box in the PIF for Extra. You can also use the E7.BAT file described in the previous topic, "DCA IRMA Plus+."